

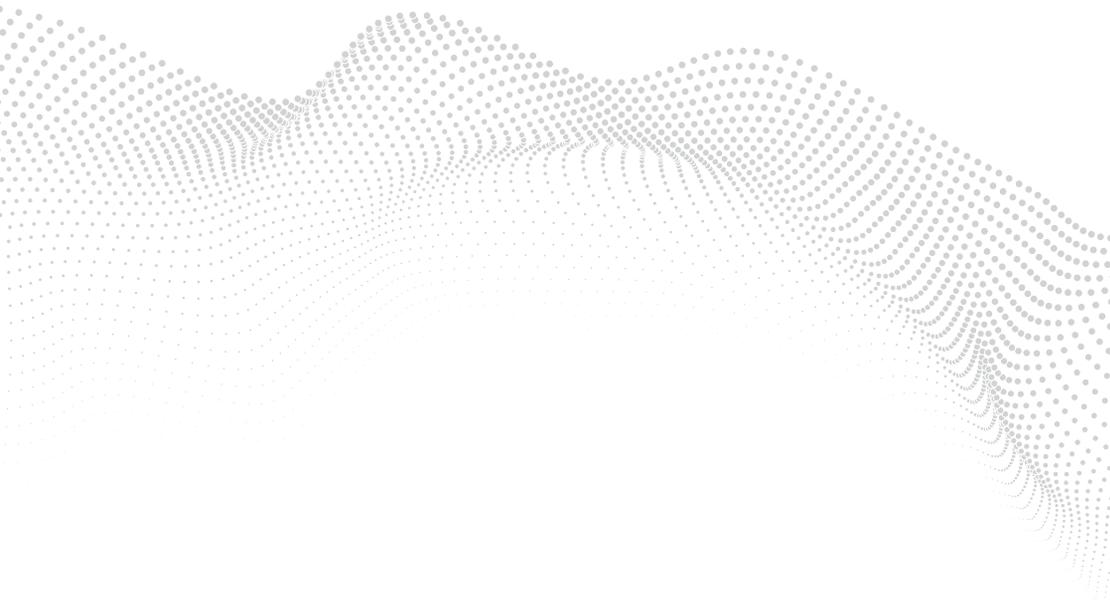


**IVAR**

HYDRONIC COMPONENTS & SYSTEMS

# **CATALOGUE 2021**

INTERNATIONAL



Il gruppo IVAR rappresenta una crescente realtà imprenditoriale attiva a livello internazionale. Nata nel 1985 come azienda specializzata nella produzione di valvole, negli anni IVAR si è attivamente impegnata nella ricerca e sviluppo di nuovi prodotti, diventando oggi leader nel settore idrotermosanitario.

The IVAR Group is a growing business that operates at an international level. Established in 1985 as company focused on the production of valves, over the years IVAR actively seeks and develops new products reaching high quality standards, to become today one of the leading companies in the sector of plumbing and heating components.



**STABILIMENTI PRODUTTIVI**

*PRODUCTION SITES*



**FILIALI COMMERCIALI NEL MONDO**

*WORLD BUSINESS BRANCHES*



**PAESI CON CUI IVAR INTRATTIENE  
RAPPORTI COMMERCIALI**

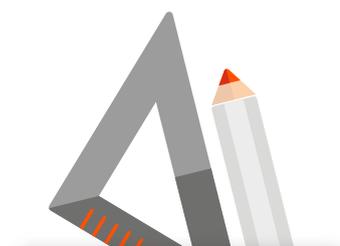
*COUNTRIES WHERE IVAR TRADES*



**CERTIFICAZIONI AZIENDALI**

*CORPORATE CERTIFICATIONS*

- ISO 9001** *Qualità*  
*Quality*
- ISO 14001** *Ambiente*  
*Environment*
- ISO 45001** *Sicurezza*  
*Safety*
- ISO 50001** *Energia*  
*Energy*



**PRODOTTI MASS MARKET  
E SOLUZIONI PERSONALIZZATE**

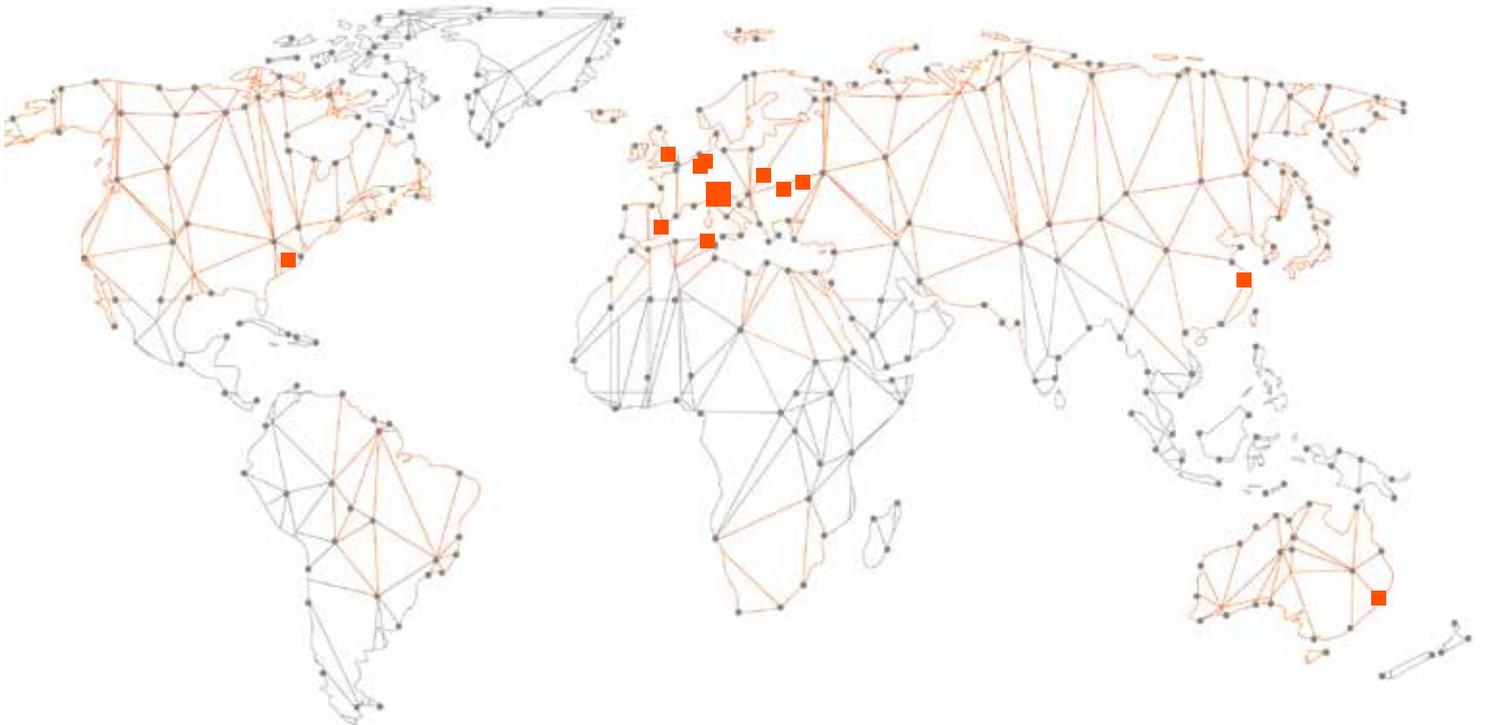
*MASS MARKET PRODUCTS  
AND CUSTOMIZED SOLUTIONS*

  
**IVAR S.p.A**  
**PREVALLE**  
**ITALY**

  
**VALMON**  
**LONGHENA**  
**ITALY**



**MADE IN ITALY**



IT

**IL GRUPPO**

Il Gruppo IVAR rappresenta una crescente realtà imprenditoriale attiva a livello internazionale. Nata nel 1985 come azienda specializzata nella produzione di valvole, negli anni IVAR si è attivamente impegnata nella ricerca e sviluppo di nuovi prodotti nel settore idrotermosanitario. Ad oggi il Gruppo IVAR ha filiali in 11 paesi: Australia, Belgio, Cina, Italia, Regno Unito, Repubblica Ceca, Romania, Slovacchia, Spagna, Stati Uniti, Tunisia e clienti in tutto il mondo.

L'integrazione verticale di tutta la filiera produttiva avviene negli stabilimenti collocati in Italia in provincia di Brescia, che occupano un'area di 50.900 mq (dei quali 25.000 coperti) progettata in modo da razionalizzare e unificare le diverse fasi produttive e operative. IVAR produce innovativi articoli per impianti di riscaldamento e sanitari Made in Italy: valvole per corpi scaldanti, moduli per la contabilizzazione diretta, dispositivi per la ripartizione del calore, tubazioni e raccorderia, sottostazioni per centrali termiche, collettori di distribuzione, sistemi a pannelli radianti, componenti per impianti solari. Il gruppo IVAR supera i 150 milioni di euro di fatturato e impiega più di 400 addetti in tutto il mondo.

**Vision**

Essere l'azienda più innovativa e ammirata del settore, grazie alla nostra capacità di rendere la vita più facile ai nostri clienti, ai clienti dei nostri clienti ed al nostro personale.

**Mission**

Progettare e produrre soluzioni idroniche avanzate ed innovative per il comfort domestico, riducendo la complessità di installazione ed il consumo energetico.

EN

**THE GROUP**

*The IVAR Group represents a growing business that operates at an international level. Born in 1985 as focused company for the production of valves, over the year IVAR has concentrated on actively seeking and developing new products and reaching high quality standards in the sector of plumbing and heating components. Currently the IVAR Group has branches in 11 countries: Australia, Belgium, China, Italy, United Kingdom, Czech Republic, Romania, Slovakia, Spain, USA, Tunisia and clients all around the world.*

*The entire production network is vertically integrated at the sites in the province of Brescia, Italy. It occupies an area of 50,900 sqm (of which 25,000 sqm are covered) where all phases of production and operation are rationalised and unified. IVAR produces innovative Made in Italy items for heating systems and bathroom fixtures: valves for heating bodies, direct metering modules, heat cost allocators, pipes and fittings, substations for heating systems, distribution manifolds, radiant panel systems, components for solar systems.*

*The IVAR Group has a turnover of more than 150m Euros and employs over 400 people all around the world.*

**Vision**

*To be the most innovative and admired company in our markets thanks to our ability to make life easier for our clients, our clients' customers and our employees.*

**Mission**

*To design and manufacture advanced and innovative hydronic solutions that increase domestic comfort whilst reducing installation complexity and energy consumption.*

FR

**LE GROUPE**

Le Groupe IVAR est une entité entrepreneuriale en pleine croissance active au niveau international. Née en 1985 en tant qu'entreprise spécialisée dans la production de soupapes, au fil des ans IVAR s'est engagée activement dans la recherche et le développement de nouveaux produits dans le secteur hydro-thermo-sanitaire. À ce jour, le Groupe IVAR a des filiales dans 11 pays : Australie, Belgique, Chine, Italie, Royaume-Uni, République Tchèque, Roumanie, Slovaquie, Espagne, États-Unis, Tunisie, ainsi que des clients dans le monde entier. L'intégration verticale de toute la filière de production a lieu dans les établissements situés en Italie dans la province de Brescia, qui occupent une surface de 50 900 mètres carrés (dont 25 000 couverts), conçue de façon à rationaliser et unifier les différentes phases opérationnelles et de production. IVAR produit des articles innovants pour les installations de chauffage et sanitaires « Made in Italy » : robinets pour corps chauffants, modules pour la comptabilisation directe, dispositifs pour la répartition de la chaleur, tuyauteries et raccords, sous-stations pour les centrales thermiques, collecteurs de distribution, systèmes à panneaux chauffants, composants pour les installations solaires. Le Groupe IVAR dépasse les 150 millions d'euros de chiffre d'affaires et emploie plus de 400 salariés dans le monde entier.

**Vision**

Être l'entreprise la plus innovante et admirée du secteur, grâce à notre capacité de simplifier la vie de nos clients, des clients de nos clients et de notre personnel.

**Mission**

Concevoir et produire des solutions hydroniques avancées et innovantes pour le confort domestique, en réduisant la complexité d'installation et la consommation énergétique.

**DE**
**DIE GRUPPE**

Die Gruppe IVAR bildet eine auf internationaler Ebene tätige, expandierende Unternehmensrealität. 1985 als Fachbetrieb für die Herstellung von Ventilen entstanden, hat sich IVAR aktiv in der Forschung und Entwicklung neuer Produkte in der Branche der Wasser-, Heizungs- und Sanitäranlagen engagiert. Derzeit ist die Gruppe IVAR mit ihren Filialen in 11 Ländern vertreten: Australien, Belgien, China, Italien, Vereinigtes Königreich, Tschechische Republik, Rumänien, Slowakei, Spanien, Vereinigte Staaten, Tunesien und Kunden aus der ganzen Welt. Die vertikale Integration der gesamten Produktionsreihe erfolgt in Italien in den in der Provinz Brescia gelegenen Werken mit einer Fläche von 50.900 m<sup>2</sup> (von denen 25.000 bebaut sind), die so angelegt sind, dass sie die verschiedenen Produktions- und Betriebsphasen rationalisieren und zusammenfassen. IVAR fertigt Made in Italy innovative Artikel für Heiz- und Sanitäranlagen: Heizkörperventile, Module für die direkte Kostenabrechnung, Vorrichtungen für die Heizkostenverteilung, Rohre und Fittings, Unterstationen für Wärmezentralen, Verteilerrohre, Systeme mit Plattenheizkörpern, Komponenten für Solar-Anlagen.

Die Gruppe IVAR hat einen Umsatz von über 150 Millionen Euro und beschäftigt weltweit mehr als 400 Mitarbeiter.

**Vision**

Dank unserer Fähigkeit, unseren Kunden, den Kunden unserer Kunden und unserem Personal das Leben zu erleichtern, das innovativste und meist bewunderte Unternehmen der Branche zu sein.

**Mission**

Entwicklung und Herstellung hochmoderner und innovativer hydronischer Lösungen für den häuslichen Komfort, mit geringeren Installationsschwierigkeiten und einem reduzierten Energieverbrauch

**ES**
**EL GRUPO**

El Grupo IVAR representa una creciente realidad empresarial activa a nivel internacional. Fundada en 1985 como empresa especializada en la producción de válvulas, a lo largo de los años IVAR se ha implicado activamente en la investigación y desarrollo de nuevos productos en el sector hidrotermosanitario. Actualmente, el Grupo IVAR cuenta con filiales en 11 países: Australia, Bélgica, China, Italia, Reino Unido, República Checa, Rumania, Eslovaquia, España, Estados Unidos, Túnez y clientes en todo el mundo. La integración vertical de toda la cadena de producción se lleva a cabo en los establecimientos situados en Italia, en la provincia de Brescia, que ocupan un área de 50.900 m<sup>2</sup> (de los cuales 25.000 son cubiertos), que han sido proyectados en aras de racionalizar y unificar las distintas fases productivas y operativas. IVAR fabrica artículos innovadores para instalaciones de calefacción y sanitarios, hechos en Italia: Válvulas calefactoras, módulos para la contabilización directa, dispositivos para repartir el calor, tubería y racorería, subestaciones para centrales térmicas, colectores de distribución, sistemas de paneles radiantes, componentes para instalaciones solares. El volumen de ventas del grupo IVAR supera los 150 millones de euros y cuenta con más de 400 empleados en todo el mundo.

**Visión**

Ser la empresa más innovadora y admirada del sector, gracias a nuestra capacidad de facilitarle la vida a nuestros clientes, a los clientes de nuestros clientes y a nuestro personal.

**Misión**

Diseñar y fabricar soluciones hidrónicas avanzadas e innovadoras para el confort doméstico, reduciendo la complejidad de las instalaciones y el consumo energético.

**ISO 9001 - Quality management system**



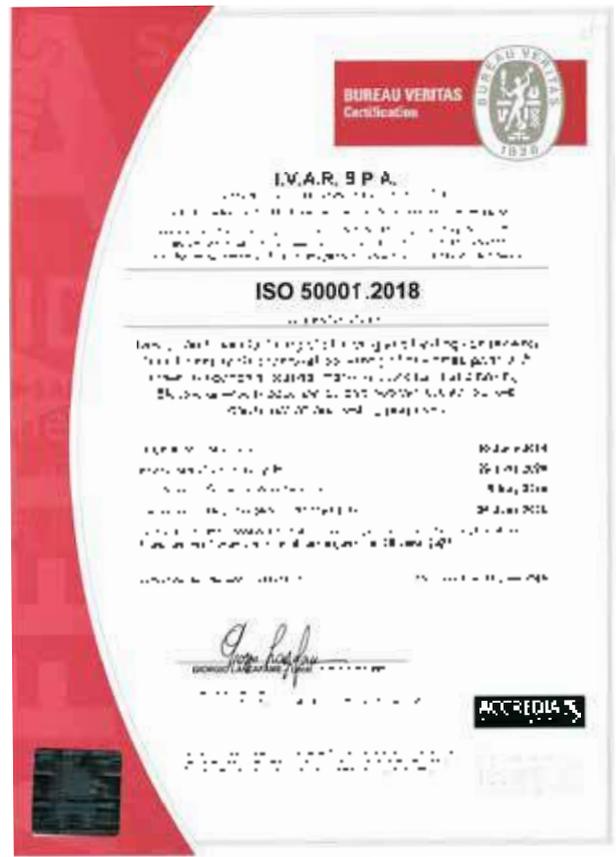
**ISO 14001 - Environment management system**



**ISO 45001 - Safety management system**



**ISO 50001 - Energy management system**




**IT**

Questa icona indica moduli di rilancio con circolatori in linea con i parametri imposti dalla direttiva europea\* ErP 2009/125/CE (eco-design dei prodotti che consumano energia).

**EN**

*This icon indicates booster modules with pumps compliant to the parameters required by the european\* directive ErP 2009/125/CE (eco-design of energy-consuming products).*

**FR**

Cette icône indique des modules de relance avec circulateurs conformes aux paramètres imposés par la directive européenne\* ErP 2009/125/CE (éco-design des produits consommateurs d'énergie).

**DE**

*Dieses Symbol zeigt Umwälzeinheiten mit Pumpen entsprechend den Parametern der europäische\* Richtlinie ErP 2009/125/EG (für energiefressende Produkte) an.*

**ES**

Este icono indica módulos de relanzamiento con circuladores conforme a los parámetros de la directiva europea\* ErP 2009/125/CE (en materia de diseño eco-compatible de los productos energívoros).

(\*)European Union + EFTA (Iceland, Lichtenstein, Norway, Switzerland).





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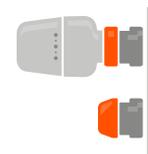
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Technische Details



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Profundizaciones técnicas

**Valvole per radiatori e fan-coil**  
*Radiator and fan-coil valves*  
**Robinets pour radiateurs et fan-coils**  
*Heizkörper- und Ventilator-konvektoren-Ventile*  
**Válvulas para radiadores y fan-coil**

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*Pipes and fittings*  
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*Rohre und Fittings*  
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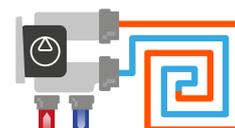
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**Colectores**

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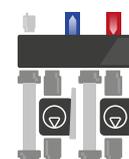
**Sistemi radianti**  
*Radiant systems*  
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*Thermal power station*  
**Centrale thermique**  
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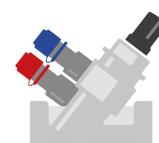
**Regolazione e controllo**  
*Regulation & control*  
**Réglage et contrôle**  
*Regelung und Bedingung*  
**Regulación y control**

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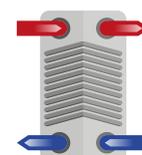
**Bilanciamento idraulico**  
*Hydraulic balancing*  
**Équilibrage hydraulique**  
*Hydraulischer Ausgleich*  
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*Satellite modules*  
**Satellites d'application**  
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*Sanitary systems*  
**Installations sanitaires**  
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**Instalaciones sanitarias**

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**Sistemi per il gas**  
*Systems for gas*  
**Systèmes pour le gaz**  
*Systeme für Gas*  
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**Contabilizzazione**  
*Metering systems*  
**Comptabilisation**  
*Kostenabrechnung*  
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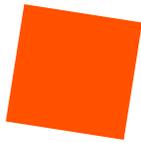
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**Sistemi solari**  
*Solar systems*  
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*Solarsysteme*  
**Sistemas solares**

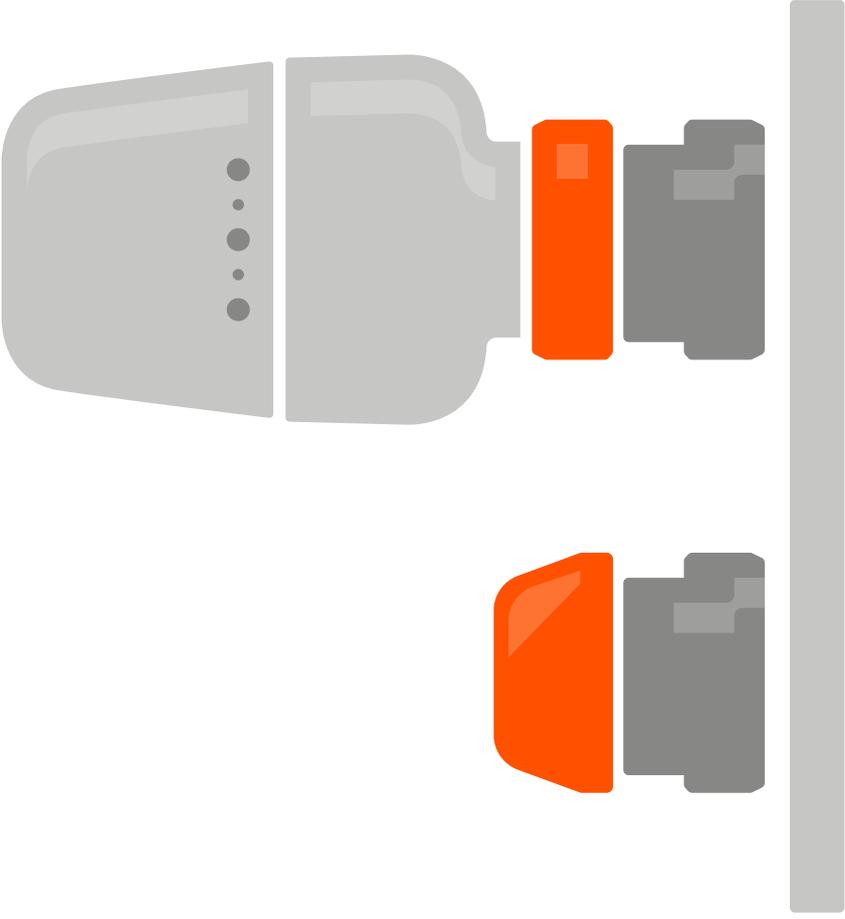
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# RADIATOR AND FAN-COIL VALVES



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Profundizaciones técnicas

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The OPTIMA thermostatic valve range features a superior quality finish which ensures perfect application in designer heating units. The technical specifications are also impressive: the DH 01 head features an ultra-rapid response and extremely low hysteresis, ranking it at the top of the range of IVAR thermostatic controls.

Valves and lockshields complete the range with the same finishes, complete with accessories and fittings. All valves and lockshields outlined in this section are supplied with AVK 01 adaptors.

### Materials

Valve body: brass CW617N

Seals and O-rings: peroxide EPDM

Head knob: brass CW508L

Head thermostat: liquid expansion type

### Technical specifications

Max. fluid temperature inside valve: 100 °C

Maximum operating pressure: 10 bar

Max. pressure differential on valves with fitted thermostatic head: 0.25 bar

Parameters according to EN 215 (for DH 01 WHITE only)

Hysteresis: 0.5 K

Influence of pressure differential D: 0.45 K

Effect of water temperature W: 0.8 K

Response time Z: 10 min (DH 01 WHITE); < 40 min (others)



## ⊕ PLUS

- Minimal and elegant design, suitable for modern heated towel rails
- Several finishes available
- Head with internal liquid expansion thermostat
- Equipped with selector for flow rate pre-regulation ⊕ FOCUS 1
- Ring nut can be replaced even when the system is working ⊕ FOCUS 2

FINISHES



CHROME



INOX



WHITE



BLACK  
ON REQUEST



SILVER  
ON REQUEST

Example codes

530040

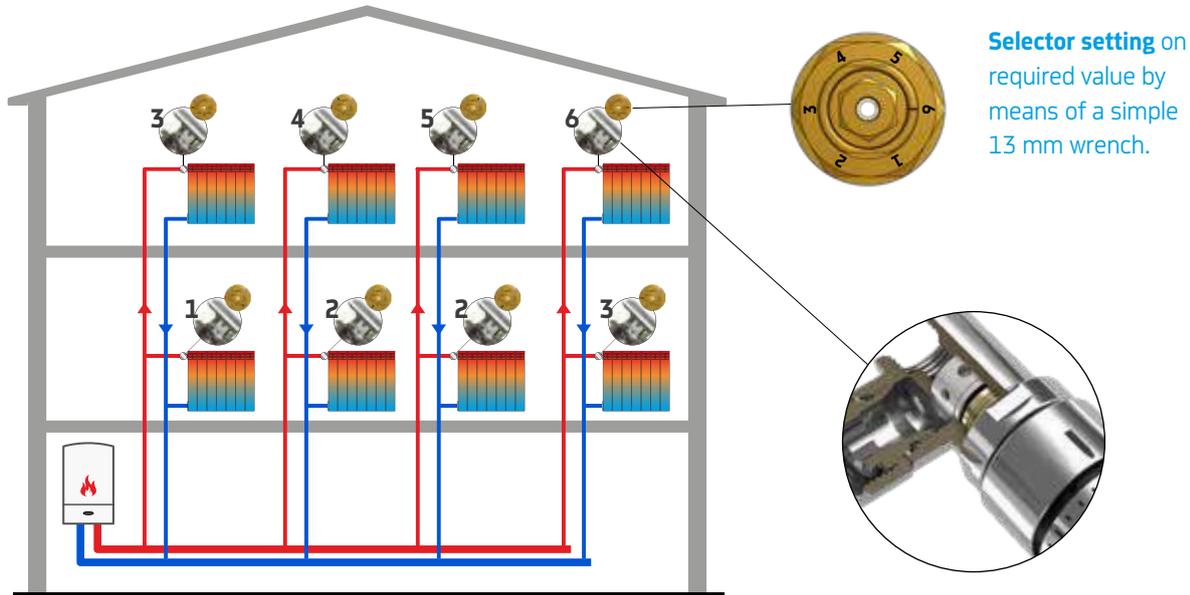
530040INOX

530040WHITE



## FOCUS 1: Pre-regulation

All Optima valves are fitted with a pre-adjustment selector which acts on the flow rate to simplify water balancing operations on the circuits.

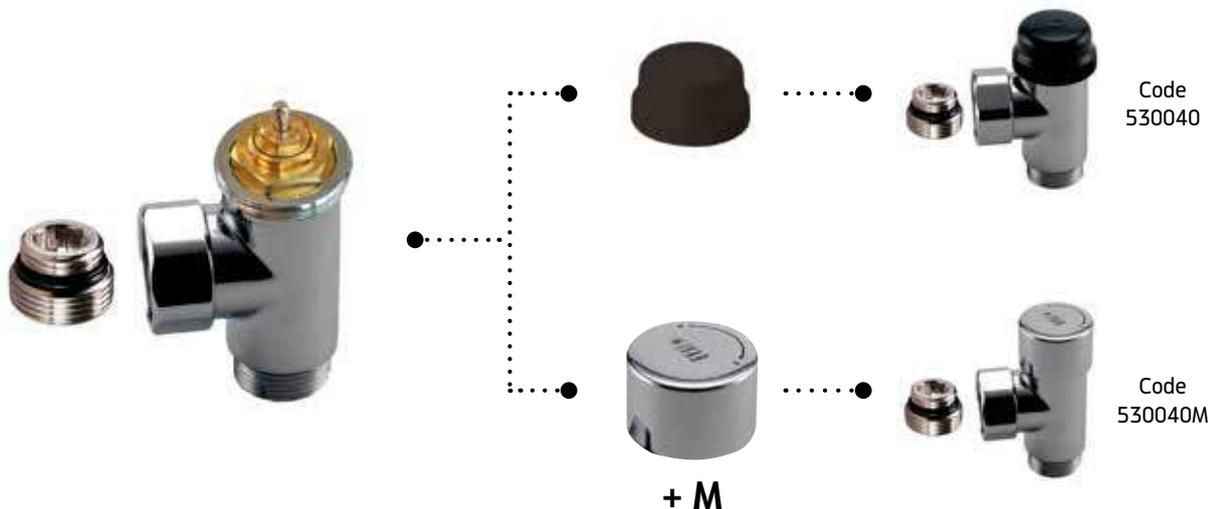


## FOCUS 2: Ring nut substitution

The ring nut is screwed on a special insert and can be replaced even when the system is working.



### VERSIONS EXAMPLE - OPTIMA





**DH 01 CHROME**


- Testa termostatica serie OPTIMA con comando e sensore a espansione di liquido incorporati.
- Thermostatic head OPTIMA series with incorporated command and liquid expansion sensor.
- Tête thermostatique série OPTIMA avec commande et senseur à expansion de liquide incorporés.
- Thermostat-Kopf OPTIMA-Serie mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler.
- Cabeza termostática de la serie OPTIMA con mando y sensor de expansión de líquido incorporados.

Code	Size	Z	Range	Color	Price	Class	Packaging
530021	M30 x 1,5	< 40 min	6,5-28 °C	■	28,95 €	RA	1 / 90

**DH 01 INOX**


- Testa termostatica serie OPTIMA con comando e sensore a espansione di liquido incorporati.
- Thermostatic head OPTIMA series with incorporated command and liquid expansion sensor.
- Tête thermostatique série OPTIMA avec commande et senseur à expansion de liquide incorporés.
- Thermostat-Kopf OPTIMA-Serie mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler.
- Cabeza termostática de la serie OPTIMA con mando y sensor de expansión de líquido incorporados.

Code	Size	Z	Range	Color	Price	Class	Packaging
530021INOX	M30 x 1,5	< 40 min	6,5-28 °C	■	40,23 €	RA	1 / 90

**DH 01 WHITE**


- Testa termostatica serie OPTIMA con comando e sensore a espansione di liquido incorporati. Isteresi 0,5 K.
- Thermostatic head OPTIMA series with incorporated command and liquid expansion sensor. Hysteresis 0.5 K.
- Tête thermostatique série OPTIMA avec commande et senseur à expansion de liquide incorporés. Hystérésis 0,5 K.
- Thermostat-Kopf OPTIMA-Serie mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler. Hysterese 0,5 K.
- Cabeza termostática de la serie OPTIMA con mando y sensor de expansión de líquido incorporados. Histéresis 0,5 K.

Code	Size	D	W	Z	Color	Price	Class	Packaging
530021WHITE	M30 x 1,5	0.45 K	0.80 K	10 min	□	28,95 €	RA	1 / 90



- D = Influenza della pressione differenziale. W = Effetto della temperatura dell'acqua. Z = Tempo di risposta.
- D = Differential pressure influence. W = Water temperature effect. Z = Response time.
- D = Influence de la pression différentielle. W = Influence de la température de l'eau. Z = Temps de réponse.
- D = Einfluß des Differenzialdrucks. W = Wassertemperatureinfluss. Z = Schließzeit.
- D = Influencia de la presión diferencial. W = Efecto de la temperatura del agua. Z = Tiempo de respuesta.

**AD 03 M**


- Testa manuale serie OPTIMA.
- Manual head OPTIMA series.
- Tête manuelle série OPTIMA.
- Manueller Hebel OPTIMA-Serie.
- Cabeza manual serie OPTIMA.

Code	Color	Price	Class	Packaging
530033M	■	8,36 €	RA	40 / 160
530033MINOX	■	10,40 €	RA	40 / 160
530033MWHITE	□	6,79 €	RA	40 / 160

**DV 020**



- Valvola termostattizzabile a squadra con prerregolazione serie OPTIMA con attacco maschio.
- Angle thermostatic valve with pre-regulation OPTIMA series with male connection.
- Robinet thermostatisable équerre avec pré-réglage série OPTIMA avec embout mâle.
- Eck-Thermostatventil mit Voreinstellung OPTIMA Serie mit AG Anschluß.
- Válvula termostattizable de escuadra con prerregulación serie OPTIMA con conexión macho.

Code	Size	Color	Price	Class	Packaging
530040	M24x1,5 x 1/2" M O-ring	■	33,54 €	RA	1 / 24
530040INOX	M24x1,5 x 1/2" M O-ring	■	41,80 €	RA	1 / 24
530040WHITE	M24x1,5 x 1/2" M O-ring	□	31,45 €	RA	1 / 24

**DV 013**



- Valvola termostattizzabile diritta con prerregolazione serie OPTIMA con attacco maschio.
- Straight thermostatic valve with pre-regulation OPTIMA series with male connection.
- Robinet thermostatisable droit avec pré-réglage série OPTIMA avec embout mâle.
- Durchgangs-Thermostatventil mit Voreinstellung OPTIMA Serie mit AG Anschluß.
- Válvula termostattizable recta con prerregulación serie OPTIMA con conexión macho.

Code	Size	Color	Price	Class	Packaging
530008	M24x1,5 x 1/2" M O-ring	■	34,07 €	RA	1 / 24
530008INOX	M24x1,5 x 1/2" M O-ring	■	42,11 €	RA	1 / 24
530008WHITE	M24x1,5 x 1/2" M O-ring	□	31,77 €	RA	1 / 24

**DV 032**



- Valvola termostattizzabile a corpo reverso OPTIMA con attacco maschio.
- Reverse thermostatic valve with pre-regulation OPTIMA series with male connection.
- Robinet thermostatisable à corps renversé avec pré-réglage série OPTIMA avec embout mâle.
- Revertthermostatventil mit Voreinstellung OPTIMA Serie mit AG Anschluß.
- Válvula termostattizable invertida con prerregulación serie OPTIMA con conexión macho.

Code	Size	Color	Price	Class	Packaging
530044	M24x1,5 x 1/2" M O-ring	■	39,08 €	RA	1 / 24
530044INOX	M24x1,5 x 1/2" M O-ring	■	46,92 €	RA	1 / 24
530044WHITE	M24x1,5 x 1/2" M O-ring	□	33,54 €	RA	1 / 24



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- Fitting for copper pipe OPTIMA series >> p. 30
- Raccord pour tube en cuivre série OPTIMA >> p. 30
- Verschraubung für Kupferrohr OPTIMA-Serie >> p. 30
- Conexión para tubo de cobre serie OPTIMA >> p. 30



- Raccordo per tubo multistrato serie OPTIMA >> p. 31
- Fitting for multilayer pipe OPTIMA series >> p. 31
- Raccord pour tube multicouche série OPTIMA >> p. 31
- Verschraubung für Verbundrohr OPTIMA-Serie >> p. 31
- Conexión para tubo multicapa serie OPTIMA >> p. 31



- Raccordo per tubo in polietilene serie OPTIMA >> p. 31
- Fitting for polyethylene pipe OPTIMA series >> p. 31
- Raccord pour tube en polyéthylène série OPTIMA >> p. 31
- Verschraubung für PEX-Rohr OPTIMA-Serie >> p. 31
- Conexión para tubo de polietileno serie OPTIMA >> p. 31



- È possibile ordinare questi articoli con testa manuale utilizzando il medesimo codice, ma aggiungendo la "M" dopo l'ultima cifra.
- It is possible to order these items with manual head; please use the same reference code and add "M" after the last figure.
- Il est possible de commander ces articles avec la tête manuelle en utilisant le même code, mais en ajoutant le "M" après le dernier chiffre.
- Ausführung mit manueller Hebel verfügbar. Dieselbe o.g. Bestellnummer aber bitte „M“ nach der letzten Ziffer hinzufügen.
- Puede pedir estos artículos con cabeza manual, con el mismo código y añadiendo la "M" después del último dígito.


**DV 030**


- **Detentore a squadra serie OPTIMA con attacco maschio.**
- *Angle lockshield OPTIMA series with male connection.*
- **Coude de réglage équerre série OPTIMA avec embout mâle.**
- *Eck-Rücklaufventil OPTIMA Serie mit AG Anschluß.*
- **Detentor de escuadra serie OPTIMA con conexión macho.**

Code	Size	Color	Price	Class	Packaging
530041	M24x1,5 x 1/2" M O-ring	■	40,02 €	RA	1 / 24
530041INOX	M24x1,5 x 1/2" M O-ring	■	50,42 €	RA	1 / 24
530041WHITE	M24x1,5 x 1/2" M O-ring	□	36,42 €	RA	1 / 24

**DV 023**


- **Detentore diritto serie OPTIMA con attacco maschio.**
- *Straight lockshield OPTIMA series with male connection.*
- **Tè de réglage droit série OPTIMA avec embout mâle.**
- *Durchgangs-Rücklaufventil OPTIMA Serie mit AG Anschluß.*
- **Detentor recto serie OPTIMA con conexión macho.**

Code	Size	Color	Price	Class	Packaging
530009	M24x1,5 x 1/2" M O-ring	■	40,55 €	RA	1 / 24
530009INOX	M24x1,5 x 1/2" M O-ring	■	50,73 €	RA	1 / 24
530009WHITE	M24x1,5 x 1/2" M O-ring	□	36,73 €	RA	1 / 24

**DV 042**


- **Detentore a corpo reverso serie OPTIMA con attacco maschio.**
- *Reverse lockshield OPTIMA series with male connection.*
- **Coude de réglage à corps renversé série OPTIMA avec embout mâle.**
- *Reversrücklaufventil OPTIMA Serie mit AG Anschluß.*
- **Detentor invertido serie OPTIMA con conexión macho.**

Code	Size	Color	Price	Class	Packaging
530045	M24x1,5 x 1/2" M O-ring	■	45,56 €	RA	1 / 24
530045INOX	M24x1,5 x 1/2" M O-ring	■	55,54 €	RA	1 / 24
530045WHITE	M24x1,5 x 1/2" M O-ring	□	38,51 €	RA	1 / 24



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- *Fitting for copper pipe OPTIMA series >> p. 30*
- **Raccord pour tube en cuivre série OPTIMA >> p. 30**
- *Verschraubung für Kupferrohr OPTIMA-Serie >> p. 30*
- **Conexión para tubo de cobre serie OPTIMA >> p. 30**



- **Raccordo per tubo multistrato serie OPTIMA >> p. 31**
- *Fitting for multilayer pipe OPTIMA series >> p. 31*
- **Raccord pour tube multicouche série OPTIMA >> p. 31**
- *Verschraubung für Verbundrohr OPTIMA-Serie >> p. 31*
- **Conexión para tubo multicapa serie OPTIMA >> p. 31**



- **Raccordo per tubo in polietilene serie OPTIMA >> p. 31**
- *Fitting for polyethylene pipe OPTIMA series >> p. 31*
- **Raccord pour tube en polyéthylène série OPTIMA >> p. 31**
- *Verschraubung für PEX-Rohr OPTIMA-Serie >> p. 31*
- **Conexión para tubo de polietileno serie OPTIMA >> p. 31**

**DV 019**



- Valvola termostattizzabile a squadra con prerregolazione serie OPTIMA con attacco femmina.
- Angle thermostatic valve with pre-regulation OPTIMA series with female connection.
- Robinet thermostatisable équerre avec préréglage série OPTIMA avec embout femelle.
- Eck-Thermostatventil mit Voreinstellung OPTIMA Serie mit IG Anschluß.
- Válvula termostatizable de escuadra con prerregulación serie OPTIMA con conexión hembra.

Code	Size	Color	Price	Class	Packaging
530038	1/2" F x 1/2" M O-ring	■	30,93 €	RA	1 / 24
530038INOX	1/2" F x 1/2" M O-ring	■	39,19 €	RA	1 / 24
530038WHITE	1/2" F x 1/2" M O-ring	□	28,84 €	RA	1 / 24

**DV 011**



- Valvola termostattizzabile diritta con prerregolazione serie OPTIMA con attacco femmina.
- Straight thermostatic valve with pre-regulation OPTIMA series with female connection.
- Robinet thermostatisable droit avec préréglage série OPTIMA avec embout femelle.
- Durchgangs-Thermostatventil mit Voreinstellung OPTIMA Serie mit IG Anschluß.
- Válvula termostatizable recta con prerregulación serie OPTIMA con conexión hembra.

Code	Size	Color	Price	Class	Packaging
530024	1/2" F x 1/2" M O-ring	■	31,45 €	RA	1 / 24
530024INOX	1/2" F x 1/2" M O-ring	■	39,50 €	RA	1 / 24
530024WHITE	1/2" F x 1/2" M O-ring	□	29,16 €	RA	1 / 24

**DV 031**



- Valvola termostattizzabile a corpo reverso con prerregolazione serie OPTIMA con attacco femmina.
- Reverse thermostatic valve with pre-regulation OPTIMA series with female connection.
- Robinet thermostatisable à corps renversé avec préréglage série OPTIMA avec embout femelle.
- Revertthermostatventil mit Voreinstellung OPTIMA Serie mit IG Anschluß.
- Válvula termostatizable invertida con prerregulación serie OPTIMA con conexión hembra.

Code	Size	Color	Price	Class	Packaging
530042	1/2" F x 1/2" M O-ring	■	36,47 €	RA	1 / 24
530042INOX	1/2" F x 1/2" M O-ring	■	44,31 €	RA	1 / 24
530042WHITE	1/2" F x 1/2" M O-ring	□	30,93 €	RA	1 / 24



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- Ausführung mit manueller Hebel verfügbar. Dieselbe o.g. Bestellnummer aber bitte „M“ nach der letzten Ziffer hinzufügen.
- Puede pedir estos artículos con cabeza manual, con el mismo código y añadiendo la "M" después del último dígito.


**DV 029**


- **Detentore a squadra serie OPTIMA con attacco femmina.**
- *Angle lockshield OPTIMA series with female connection.*
- **Coude de réglage équerre série OPTIMA avec embout femelle.**
- *Eck-Rücklaufventil OPTIMA Serie mit IG Anschluß.*
- **Detentor de escuadra serie OPTIMA con conexión hembra.**

Code	Size	Color	Price	Class	Packaging
530039	1/2" F x 1/2" M O-ring	■	37,41 €	RA	1 / 24
530039INOX	1/2" F x 1/2" M O-ring	■	47,81 €	RA	1 / 24
530039WHITE	1/2" F x 1/2" M O-ring	□	33,81 €	RA	1 / 24

**DV 021**


- **Detentore diritto serie OPTIMA con attacco femmina.**
- *Straight lockshield OPTIMA series with female connection.*
- **Tè de réglage droit série OPTIMA avec embout femelle.**
- *Durchgangs-Rücklaufventil OPTIMA Serie mit IG Anschluß.*
- **Detentor recto serie OPTIMA con conexión hembra.**

Code	Size	Color	Price	Class	Packaging
530025	1/2" F x 1/2" M O-ring	■	37,93 €	RA	1 / 24
530025INOX	1/2" F x 1/2" M O-ring	■	48,12 €	RA	1 / 24
530025WHITE	1/2" F x 1/2" M O-ring	□	34,12 €	RA	1 / 24

**DV 041**


- **Detentore a corpo reverso serie OPTIMA con attacco femmina.**
- *Reverse lockshield OPTIMA series with female connection.*
- **Coude de réglage à corps renversé série OPTIMA avec embout femelle.**
- *Reversrücklaufventil OPTIMA Serie mit IG Anschluß.*
- **Detentor invertido serie OPTIMA con conexión hembra**

Code	Size	Color	Price	Class	Packaging
530043	1/2" F x 1/2" M O-ring	■	42,95 €	RA	1 / 24
530043INOX	1/2" F x 1/2" M O-ring	■	52,93 €	RA	1 / 24
530043WHITE	1/2" F x 1/2" M O-ring	□	35,90 €	RA	1 / 24

**DV 018**



- Valvola termostattizzabile coassiale sinistra con prerregolazione serie OPTIMA con attacco maschio.
- Co-axial left thermostatic valve with pre-regulation OPTIMA series with male connection.
- Robinet thermostatisable coaxial gauche avec pré-réglage série OPTIMA avec embout mâle.
- Koaxiales Thermostatventil links mit Voreinstellung OPTIMA Serie mit AG Anschluß.
- Válvula termostattizable coaxial izquierda con prerregulación serie OPTIMA con conexión macho.



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Code	Size	Color	Price	Class	Packaging
530012	M24x1,5 x 1/2" M O-ring	■	37,52 €	RA	1 / 24
530012INOX	M24x1,5 x 1/2" M O-ring	■	46,29 €	RA	1 / 24
530012WHITE	M24x1,5 x 1/2" M O-ring	□	34,69 €	RA	1 / 24

**DV 016**



- Valvola termostattizzabile coassiale destra con prerregolazione serie OPTIMA con attacco maschio.
- Co-axial right thermostatic valve with pre-regulation OPTIMA series with male connection.
- Robinet thermostatisable coaxial droit avec pré-réglage série OPTIMA avec embout mâle.
- Koaxiales Thermostatventil rechts mit Voreinstellung OPTIMA Serie mit AG Anschluß.
- Válvula termostattizable coaxial derecha con prerregulación serie OPTIMA con conexión macho.



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Code	Size	Color	Price	Class	Packaging
530010	M24x1,5 x 1/2" M O-ring	■	37,52 €	RA	1 / 24
530010INOX	M24x1,5 x 1/2" M O-ring	■	46,29 €	RA	1 / 24
530010WHITE	M24x1,5 x 1/2" M O-ring	□	34,69 €	RA	1 / 24



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- Fitting for copper pipe OPTIMA series >> p. 30
- Raccord pour tube en cuivre série OPTIMA >> p. 30
- Verschraubung für Kupferrohr OPTIMA-Serie >> p. 30
- Conexión para tubo de cobre serie OPTIMA >> p. 30



- Raccordo per tubo multistrato serie OPTIMA >> p. 31
- Fitting for multilayer pipe OPTIMA series >> p. 31
- Raccord pour tube multicouche série OPTIMA >> p. 31
- Verschraubung für Verbundrohr OPTIMA-Serie >> p. 31
- Conexión para tubo multicapa serie OPTIMA >> p. 31



- Raccordo per tubo in polietilene serie OPTIMA >> p. 31
- Fitting for polyethylene pipe OPTIMA series >> p. 31
- Raccord pour tube en polyéthylène série OPTIMA >> p. 31
- Verschraubung für PEX-Rohr OPTIMA-Serie >> p. 31
- Conexión para tubo de polietileno serie OPTIMA >> p. 31



- È possibile ordinare questi articoli con testa manuale utilizzando il medesimo codice, ma aggiungendo la "M" dopo l'ultima cifra.
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- Ausführung mit manueller Hebel verfügbar. Dieselbe o.g. Bestellnummer aber bitte „M“ nach der letzten Ziffer hinzufügen.
- Puede pedir estos artículos con cabeza manual, con el mismo código y añadiendo la "M" después del último dígito.


**DV 026**


- Detentore coassiale destro serie OPTIMA con attacco maschio.
- Co-axial right lockshield OPTIMA series with male connection.
- Raccord de réglage coaxial droit série OPTIMA avec embout mâle.
- Koaxiales Rücklaufventil rechts OPTIMA Serie mit AG Anschluß.
- Detentor coaxial derecho serie OPTIMA con conexión macho.



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Code	Size	Color	Price	Class	Packaging
530011	M24x1,5 x 1/2" M O-ring	■	43,99 €	RA	1 / 24
530011INOX	M24x1,5 x 1/2" M O-ring	■	54,91 €	RA	1 / 24
530011WHITE	M24x1,5 x 1/2" M O-ring	□	39,66 €	RA	1 / 24

**DV 028**


- Detentore coassiale sinistro serie OPTIMA con attacco maschio.
- Co-axial left lockshield OPTIMA series with male connection.
- Raccord de réglage coaxial gauche série OPTIMA avec embout mâle.
- Koaxiales Rücklaufventil links OPTIMA Serie mit AG Anschluß.
- Detentor coaxial izquierdo serie OPTIMA con conexión macho.



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Code	Size	Color	Price	Class	Packaging
530013	M24x1,5 x 1/2" M O-ring	■	43,99 €	RA	1 / 24
530013INOX	M24x1,5 x 1/2" M O-ring	■	54,91 €	RA	1 / 24
530013WHITE	M24x1,5 x 1/2" M O-ring	□	39,66 €	RA	1 / 24



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- Raccord pour tube en cuivre série OPTIMA >> p. 30
- Verschraubung für Kupferrohr OPTIMA-Serie >> p. 30
- Conexión para tubo de cobre serie OPTIMA >> p. 30



- Raccordo per tubo multistrato serie OPTIMA >> p. 31
- Fitting for multilayer pipe OPTIMA series >> p. 31
- Raccord pour tube multicouche série OPTIMA >> p. 31
- Verschraubung für Verbundrohr OPTIMA-Serie >> p. 31
- Conexión para tubo multicapa serie OPTIMA >> p. 31

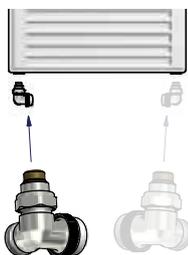


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- Fitting for polyethylene pipe OPTIMA series >> p. 31
- Raccord pour tube en polyéthylène série OPTIMA >> p. 31
- Verschraubung für PEX-Rohr OPTIMA-Serie >> p. 31
- Conexión para tubo de polietileno serie OPTIMA >> p. 31

**DV 017**



- Valvola termostattizzabile coassiale sinistra con prerregolazione serie OPTIMA con attacco femmina.
- Co-axial left thermostatic valve with pre-regulation OPTIMA series with female connection.
- Robinet thermostatisable coaxial gauche avec préréglage série OPTIMA avec embout femelle.
- Koaxiales Thermostatventil links mit Voreinstellung OPTIMA Serie mit IG Anschluß.
- Válvula termostattizable coaxial izquierda con prerregulación serie OPTIMA con conexión hembra.



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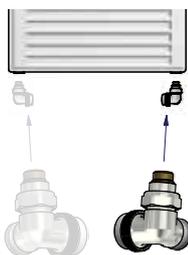
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Code	Size	Color	Price	Class	Packaging
530028	1/2" F x 1/2" M O-ring	■	34,90 €	RA	1 / 24
530028INOX	1/2" F x 1/2" M O-ring	■	43,68 €	RA	1 / 24
530028WHITE	1/2" F x 1/2" M O-ring	□	32,08 €	RA	1 / 24

**DV 015**



- Valvola termostattizzabile coassiale destra con prerregolazione serie OPTIMA con attacco femmina.
- Co-axial right thermostatic valve with pre-regulation OPTIMA series with female connection.
- Robinet thermostatisable coaxial droit avec préréglage série OPTIMA avec embout femelle.
- Koaxiales Thermostatventil rechts mit Voreinstellung OPTIMA Serie mit IG Anschluß.
- Válvula termostattizable coaxial derecha con prerregulación serie OPTIMA con conexión hembra.



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Code	Size	Color	Price	Class	Packaging
530026	1/2" F x 1/2" M O-ring	■	34,90 €	RA	1 / 24
530026INOX	1/2" F x 1/2" M O-ring	■	43,68 €	RA	1 / 24
530026WHITE	1/2" F x 1/2" M O-ring	□	32,08 €	RA	1 / 24



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- Ausführung mit manueller Hebel verfügbar. Dieselbe o.g. Bestellnummer aber bitte „M“ nach der letzten Ziffer hinzufügen.
- Puede pedir estos artículos con cabeza manual, con el mismo código y añadiendo la "M" después del último dígito.

**DV 025**


- **Detentore coassiale destro serie OPTIMA con attacco femmina.**
- *Co-axial right lockshield OPTIMA series with female connection.*
- **Raccord de réglage coaxial droit série OPTIMA avec embout femelle.**
- *Koaxiales Rücklaufventil rechts OPTIMA Serie mit IG Anschluß.*
- **Detentor coaxial derecho serie OPTIMA con conexión hembra.**



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Code	Size	Color	Price	Class	Packaging
530027	1/2" F x 1/2" M O-ring	■	41,38 €	RA	1 / 24
530027INOX	1/2" F x 1/2" M O-ring	■	52,30 €	RA	1 / 24
530027WHITE	1/2" F x 1/2" M O-ring	□	37,05 €	RA	1 / 24

**DV 027**


- **Detentore coassiale sinistro serie OPTIMA con attacco femmina.**
- *Co-axial left lockshield OPTIMA series with female connection.*
- **Raccord de réglage coaxial gauche série OPTIMA avec embout femelle.**
- *Koaxiales Rücklaufventil links OPTIMA Serie mit IG Anschluß.*
- **Detentor coaxial izquierdo serie OPTIMA con conexión hembra.**



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RECHTS  
DERECHA

Code	Size	Color	Price	Class	Packaging
530029	1/2" F x 1/2" M O-ring	■	41,38 €	RA	1 / 24
530029INOX	1/2" F x 1/2" M O-ring	■	52,30 €	RA	1 / 24
530029WHITE	1/2" F x 1/2" M O-ring	□	37,05 €	RA	1 / 24

**DV 104**



- Valvola H termostattizzabile bitubo per alimentazione a parete con prerregolazione serie OPTIMA con attacco maschio.
- Double pipe H thermostatic valve for wall delivery with pre-regulation OPTIMA series with male connection.
- Pièce H thermostatisable bitube pour alimentation murale avec pré réglage série OPTIMA avec embout mâle.
- Zweirohr-H-Thermostatventil Eckform mit Voreinstellung OPTIMA Serie mit AG Anschluß.
- Válvula H termostatizable bitubo para alimentación en pared con prerregulación serie OPTIMA con conexión macho.

Code	Size	Color	Price	Class	Packaging
530007	M24x1,5 x 1/2" M O-ring	■	75,66 €	RA	1 / 14
530007INOX	M24x1,5 x 1/2" M O-ring	■	92,69 €	RA	1 / 14
530007WHITE	M24x1,5 x 1/2" M O-ring	□	70,22 €	RA	1 / 14

**DV 104 B**



- Valvola H termostattizzabile mono/bitubo (con bypass regolabile 50-100%) per alimentazione a parete con prerregolazione serie OPTIMA con attacco maschio.
- Single/double pipe H thermostatic valve (with adjustable bypass 50-100%) for wall delivery with pre-regulation OPTIMA series with male connection.
- Pièce H thermostatisable mono/bitube (avec bypass réglable 50-100%) pour alimentation murale avec pré réglage série OPTIMA avec embout mâle.
- Ein-/Zweirohr-H-Thermostatventil (mit regelbarer Bypass 50-100%) Eckform mit Voreinstellung OPTIMA Serie mit AG Anschluß.
- Válvula H termostatizable mono/bitubo (con bypass ajustable 50-100%) para alimentación en pared con prerregulación serie OPTIMA con conexión macho.

Code	Size	Color	Price	Class	Packaging
530007B	M24x1,5 x 1/2" M O-ring	■	80,36 €	RA	1 / 14
530007INOXB	M24x1,5 x 1/2" M O-ring	■	97,39 €	RA	1 / 14
530007WHITEB	M24x1,5 x 1/2" M O-ring	□	74,93 €	RA	1 / 14

**DV 103**



- Valvola H termostattizzabile bitubo per alimentazione a pavimento con prerregolazione serie OPTIMA con attacco maschio.
- Double pipe H thermostatic valve for floor delivery with pre-regulation OPTIMA series with male connection.
- Pièce H thermostatisable bitube pour alimentation au sol avec pré réglage série OPTIMA avec embout mâle.
- Zweirohr-H-Thermostatventil Durchgangsform mit Voreinstellung OPTIMA Serie mit AG Anschluß.
- Válvula H termostatizable bitubo para alimentación en suelo con prerregulación serie OPTIMA con conexión macho.

Code	Size	Color	Price	Class	Packaging
530005	M24x1,5 x 1/2" M O-ring	■	74,51 €	RA	1 / 14
530005INOX	M24x1,5 x 1/2" M O-ring	■	89,97 €	RA	1 / 14
530005WHITE	M24x1,5 x 1/2" M O-ring	□	70,85 €	RA	1 / 14

**DV 103 B**



- Valvola H termostattizzabile mono/bitubo (con bypass regolabile 50-100%) per alimentazione a pavimento con prerregolazione serie OPTIMA con attacco maschio.
- Single/double pipe H thermostatic valve (with adjustable bypass 50-100%) for floor delivery with pre-regulation OPTIMA series with male connection.
- Pièce H thermostatisable mono/bitube (avec bypass réglable 50-100%) pour alimentation au sol avec pré réglage série OPTIMA avec embout mâle.
- Ein-/Zweirohr-H-Thermostatventil (mit regelbarer Bypass 50-100%) Durchgangsform mit Voreinstellung OPTIMA Serie mit AG Anschluß.
- Válvula H termostatizable mono/bitubo (con bypass ajustable 50-100%) para alimentación en suelo con prerregulación serie OPTIMA con conexión macho.

Code	Size	Color	Price	Class	Packaging
530005B	M24x1,5 x 1/2" M O-ring	■	79,21 €	RA	1 / 14
530005INOXB	M24x1,5 x 1/2" M O-ring	■	94,68 €	RA	1 / 14
530005WHITEB	M24x1,5 x 1/2" M O-ring	□	75,55 €	RA	1 / 14



- È possibile ordinare questi articoli con testa manuale utilizzando il medesimo codice, ma aggiungendo la "M" dopo l'ultima cifra.
- It is possible to order these items with manual head; please use the same reference code and add "M" after the last figure.
- Il est possible de commander ces articles avec la tête manuelle en utilisant le même code, mais en ajoutant le "M" après le dernier chiffre.
- Ausführung mit manueller Hebel verfügbar. Dieselse o.g. Bestellnummer aber bitte „M“ nach der letzten Ziffer hinzufügen.
- Puede pedir estos artículos con cabeza manual, con el mismo código y añadiendo la "M" después del último dígito.

**DV 102**


- Valvola H termostattabile bitubo per alimentazione a parete con prerregolazione serie OPTIMA con attacco femmina.
- Double pipe H thermostatic valve for wall delivery with pre-regulation OPTIMA series with female connection.
- Pièce H thermostatisable bitube pour alimentation murale avec pré réglage série OPTIMA avec embout femelle.
- Zweirohr-H-Thermostatventil Eckform mit Voreinstellung OPTIMA Serie mit IG Anschluß.
- Válvula H termostatizable bitubo para alimentación en pared con prerregulación serie OPTIMA con conexión hembra.

Code	Size	Color	Price	Class	Packaging
530006	1/2" F x 1/2" M O-ring	■	70,43 €	RA	1 / 14
530006INOX	1/2" F x 1/2" M O-ring	■	87,47 €	RA	1 / 14
530006WHITE	1/2" F x 1/2" M O-ring	□	65,00 €	RA	1 / 14

**DV 102 B**


- Valvola H termostattabile mono/bitubo (con bypass regolabile 50-100%) per alimentazione a parete con prerregolazione serie OPTIMA con attacco femmina.
- Single/double pipe H thermostatic valve (with adjustable bypass 50-100%) for wall delivery with pre-regulation OPTIMA series with female connection.
- Pièce H thermostatisable mono/bitube (avec bypass réglable 50-100%) pour alimentation murale avec pré réglage série OPTIMA avec embout femelle.
- Ein-/Zweirohr-H-Thermostatventil (mit regelbarer Bypass 50-100%) Eckform mit Voreinstellung OPTIMA Serie mit IG Anschluß.
- Válvula H termostatizable mono/bitubo (con bypass ajustable 50-100%) para alimentación en pared con prerregulación serie OPTIMA con conexión hembra.

Code	Size	Color	Price	Class	Packaging
530006B	1/2" F x 1/2" M O-ring	■	75,14 €	RA	1 / 14
530006INOXB	1/2" F x 1/2" M O-ring	■	92,17 €	RA	1 / 14
530006WHITEB	1/2" F x 1/2" M O-ring	□	69,70 €	RA	1 / 14

**DV 101**


- Valvola H termostattabile bitubo per alimentazione a pavimento con prerregolazione serie OPTIMA con attacco femmina.
- Double pipe H thermostatic valve for floor delivery with pre-regulation OPTIMA series with female connection.
- Pièce H thermostatisable bitube pour alimentation au sol avec pré réglage série OPTIMA avec embout femelle.
- Zweirohr-H-Thermostatventil Durchgangsform mit Voreinstellung OPTIMA Serie mit IG Anschluß.
- Válvula H termostatizable bitubo para alimentación en suelo con prerregulación serie OPTIMA con conexión hembra.

Code	Size	Color	Price	Class	Packaging
530004	1/2" F x 1/2" M O-ring	■	69,28 €	RA	1 / 14
530004INOX	1/2" F x 1/2" M O-ring	■	84,75 €	RA	1 / 14
530004WHITE	1/2" F x 1/2" M O-ring	□	65,63 €	RA	1 / 14

**DV 101 B**


- Valvola H termostattabile mono/bitubo (con bypass regolabile 50-100%) per alimentazione a pavimento con prerregolazione serie OPTIMA con attacco femmina.
- Single/double pipe H thermostatic valve (with adjustable bypass 50-100%) for floor delivery with pre-regulation OPTIMA series with female connection.
- Pièce H thermostatisable mono/bitube (avec bypass réglable 50-100%) pour alimentation au sol avec pré réglage série OPTIMA avec embout femelle.
- Ein-/Zweirohr-H-Thermostatventil (mit regelbarer Bypass 50-100%) Durchgangsform mit Voreinstellung OPTIMA Serie mit IG Anschluß.
- Válvula H termostatizable mono/bitubo (con bypass ajustable 50-100%) para alimentación en suelo con prerregulación serie OPTIMA con conexión hembra.

Code	Size	Color	Price	Class	Packaging
530004B	1/2" F x 1/2" M O-ring	■	73,99 €	RA	1 / 14
530004INOXB	1/2" F x 1/2" M O-ring	■	89,45 €	RA	1 / 14
530004WHITEB	1/2" F x 1/2" M O-ring	□	70,33 €	RA	1 / 14



- È possibile ordinare questi articoli con testa manuale utilizzando il medesimo codice, ma aggiungendo la "M" dopo l'ultima cifra.
- It is possible to order these items with manual head; please use the same reference code and add "M" after the last figure.
- Il est possible de commander ces articles avec la tête manuelle en utilisant le même code, mais en ajoutant le "M" après le dernier chiffre.
- Ausführung mit manueller Hebel verfügbar. Dieselse o.g. Bestellnummer aber bitte „M“ nach der letzten Ziffer hinzufügen.
- Puede pedir estos artículos con cabeza manual, con el mismo código y añadiendo la "M" después del último dígito.

AD 02



- **Mostrina singola in ABS serie OPTIMA (in 2 pezzi).**
- *ABS single plate OPTIMA series (in 2 pieces).*
- **Rosace single en ABS série OPTIMA (en 2 pièces).**
- *Einzelne Abdeckmanschette aus ABS OPTIMA-Serie (in 2 Stücke).*
- **Embellecedor simple de ABS serie OPTIMA (en 2 piezas).**

Code	Size	Color	Price	Class	Packaging
530031	Ø15	■	2,95 €	RA	40 / 160
530031INOX	Ø15	■	9,20 €	RA	40 / 160
530031WHITE	Ø15	□	3,75 €	RA	40 / 160

AD 06



- **Kit copritubo serie OPTIMA completo con mostrine singole in ottone.**
- *Complete pipe covering kit OPTIMA series with brass single plates.*
- **Kit couvre-tube série OPTIMA complet avec rosaces singles en laiton.**
- *Vollständiges Rohrdeckungsset OPTIMA-Serie mit einzel Abdeckmanschetten aus Messing.*
- **Conjunto cubre-tubo serie OPTIMA completo de embellecedores simples en latón.**

Code	Size	Color	Price	Class	Packaging
530061	Ø18 x 70 mm	■	30,93 €	RA	1
530061WHITE	Ø18 x 70 mm	□	33,96 €	RA	1
530062	Ø18 x 160 mm	■	33,44 €	RA	1
530062WHITE	Ø18 x 160 mm	□	44,31 €	RA	1

AD 01



- **Mostrina doppia in ABS serie OPTIMA (in 2 pezzi).**
- *ABS double plate OPTIMA series (in 2 pieces).*
- **Rosace double en ABS série OPTIMA (en 2 pièces).**
- *Doppelte Abdeckmanschette aus ABS OPTIMA-Serie (in 2 Stücke).*
- **Plafón embellecedor doble de ABS serie OPTIMA (en 2 piezas).**

Code	Size	OC distance	Color	Price	Class	Packaging
530030	Ø15	50 mm	■	3,75 €	RA	20 / 80
530030INOX	Ø15	50 mm	■	13,50 €	RA	20 / 80
530030WHITE	Ø15	50 mm	□	5,30 €	RA	20 / 80

AD 05



- **Kit copritubo serie OPTIMA completo con mostrina doppia in ottone.**
- *Complete pipe covering kit OPTIMA series with brass double plate.*
- **Kit couvre-tube série OPTIMA complet avec rosace double en laiton.**
- *Vollständiges Rohrdeckungsset OPTIMA-Serie mit doppelter Abdeckmanschette aus Messing.*
- **Conjunto cubre-tubo serie OPTIMA completo de embellecedor doble (en latón).**

Code	Size	OC distance	Color	Price	Class	Packaging
530059	Ø18 x 70 mm	50 mm	■	49,56 €	RA	1
530059WHITE	Ø18 x 70 mm	50 mm	□	54,58 €	RA	1
530060	Ø18 x 160 mm	50 mm	■	55,73 €	RA	1
530060WHITE	Ø18 x 160 mm	50 mm	□	61,40 €	RA	1


**AD 04**


- **Mostrina singola in ottone serie OPTIMA.**
- *Brass single plate OPTIMA series.*
- **Rosace single en laiton série OPTIMA.**
- *Einzelne Abdeckmanschette aus Messing OPTIMA-Serie.*
- **Embellecedor simple en latón serie OPTIMA.**

Code	Size	Color	Price	Class	Packaging
530055	Ø10	■	4,34 €	RA	1
530055WHITE	Ø10	□	5,43 €	RA	1
530056	Ø12	■	4,34 €	RA	1
530056WHITE	Ø12	□	5,43 €	RA	1
530057	Ø14	■	4,34 €	RA	1
530057WHITE	Ø14	□	5,43 €	RA	1
530058	Ø16	■	4,34 €	RA	1
530058WHITE	Ø16	□	5,43 €	RA	1

**RR 702 OPTIMA**


- **Tubo di raccordo in rame serie OPTIMA.**
- *Copper connection pipe OPTIMA series*
- **Tube de raccord en cuivre série OPTIMA.**
- *Verbindungsrhor aus Kupfer OPTIMA-Serie.*
- **Tubo de conexión de cobre serie OPTIMA.**

Code	Size	Color	Price	Class	Packaging
530032	Ø15 x 1/2" x 140 mm	■	6,73 €	RA	35 / 140
530032INOX	Ø15 x 1/2" x 140 mm	■	10,90 €	RA	35 / 140
530032WHITE	Ø15 x 1/2" x 140 mm	□	8,35 €	RA	35 / 140

**AD 03**


- **Cappuccio per detentori e valvole H serie OPTIMA.**
- *Cap for lockshields and H valves OPTIMA series.*
- **Capuchon pour tés/coudes de réglage et vannes en H série OPTIMA.**
- *Schutzkappe für Rücklaufventile und H-Thermostatventile OPTIMA-Serie.*
- **Capuchón\ para detentores y válvulas H serie OPTIMA.**

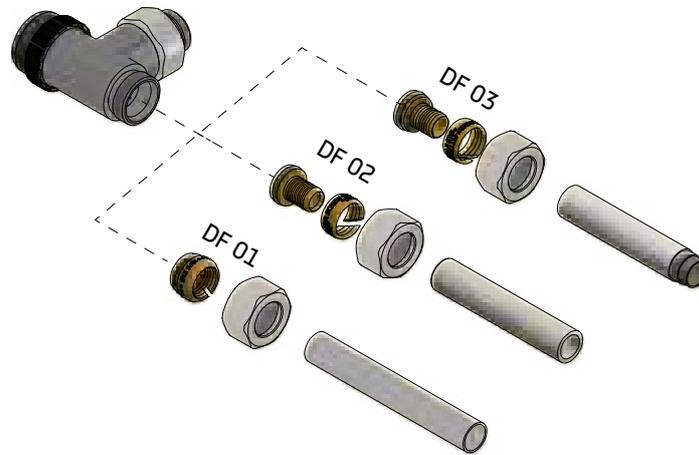
Code	Color	Price	Class	Packaging
530033	■	8,36 €	RA	40 / 160
530033INOX	■	10,40 €	RA	40 / 160
530033WHITE	□	6,79 €	RA	40 / 160

**AVK 01**


- **Adattatore per serie OPTIMA, detentori serie VK e valvole H.**
- *Adapter for OPTIMA series, VK series lockshields and H valves.*
- **Adaptateur pour série OPTIMA, coudes et tés de réglage série VK et pièces H.**
- *Adapter für Serie OPTIMA, Absperrungen der Serie VK und H-Ventile.*
- **Adaptador para serie OPTIMA, detentores serie VK y válvulas H**

Code	Size	Color	Price	Class	Packaging
500770	EUROK x 1/2" M O-ring	■	1,49 €	EC	80 / 640

Suitable fittings for valves and lockshields OPTIMA series with M24x1,5 connection



DF 01



- Raccordo a stringere M24x1,5 per tubo in rame ed acciaio dolce serie OPTIMA.
- Screw fitting M24x1,5 for copper and mild steel pipe OPTIMA series.
- Raccord à serrer M24x1,5 pour tube en cuivre et en acier doux série OPTIMA.
- Verschraubung M24x1,5 für Kupferrohr und Weichstahlrohr OPTIMA-Serie.
- Conexión M24x1,5 para tubo de cobre y acero dulce serie OPTIMA.

45 Nm ≤ T ≤ 55 Nm\*  
60 Nm ≤ T ≤ 80 Nm\*\*  
60 Nm ≤ T ≤ 70 Nm\*\*\*



Code	Size	Color	Price	Class	Packaging
530053	M24x1,5 x 10/1	■	3,02 €	RA	40 / 160
530053INOX	M24x1,5 x 10/1	■	4,40 €	RA	40 / 160
530047	M24x1,5 x 12/1	■	3,69 €	RA	40 / 160
530047INOX	M24x1,5 x 12/1	■	5,12 €	RA	40 / 160
530048	M24x1,5 x 14/1	■	2,79 €	RA	40 / 160
530048INOX	M24x1,5 x 14/1	■	4,14 €	RA	40 / 160
530014	M24x1,5 x 15/1	■	3,06 €	RA	40 / 160
530014INOX	M24x1,5 x 15/1	■	4,46 €	RA	40 / 160
530049	M24x1,5 x 16/1	■	2,91 €	RA	40 / 160
530049INOX	M24x1,5 x 16/1	■	4,31 €	RA	40 / 160

• T = Coppia max. di serraggio. [\*Rame ricotto.]\*\*Rame semiduro. [\*\*\*Acciaio dolce.

• T = Max. tightening torque. [\*Soft copper.]\*\*Semi-hard copper. [\*\*\*Mild steel.

• T = Couple de serrage max. [\*Cuivre recuit.]\*\*Cuivre semi-rigide. [\*\*\*Acier doux.

• T = Max. Anzugsdrehmoment. [\*Geglühtes Kupfer.]\*\*Mittelfestes Kupfer. [\*\*\*Weichstahl.

• T = Par de apriete max. [\*Cobre recocido.]\*\*Cobre semiduro. [\*\*\*Acero dulce.


**DF 03**


20 Nm ≤ T ≤ 30 Nm



- **Raccordo a stringere M24x1,5 per tubo multistrato serie OPTIMA.**
- *Screw fitting M24x1,5 for multilayer pipe OPTIMA series.*
- **Raccord à serrer M24x1,5 pour tube multicouche série OPTIMA.**
- *Verschraubung M24x1,5 für Verbundrohr OPTIMA-Serie.*
- **Conexión M24x1,5 para tubo multicapa serie OPTIMA.**

Code	Size	Color	Price	Class	Packaging
530046	M24x1,5 x 14/2	■	3,46 €	RA	40 / 160
530046INOX	M24x1,5 x 14/2	■	5,24 €	RA	40 / 160
530016	M24x1,5 x 16/2	■	3,46 €	RA	40 / 160
530016INOX	M24x1,5 x 16/2	■	5,24 €	RA	40 / 160
530063	M24x1,5 x 16/2,25	■	3,46 €	RA	40 / 160
530063INOX	M24x1,5 x 16/2,25	■	5,24 €	RA	40 / 160

- **T = Coppia max. di serraggio.**
- *T = Max. tightening torque.*
- **T = Couple de serrage max.**
- *T = Max. Anzugsdrehmoment.*
- **T = Par de apriete max.**

**DF 02**


30 Nm ≤ T ≤ 40 Nm



- **Raccordo a stringere M24x1,5 per tubo in polietilene serie OPTIMA.**
- *Screw fitting M24x1,5 for polyethylene pipe OPTIMA series.*
- **Raccord à serrer M24x1,5 pour tube en polyéthylène série OPTIMA.**
- *Verschraubung M24x1,5 für PEX-Rohr OPTIMA-Serie.*
- **Conexión M24x1,5 para tubo de polietileno serie OPTIMA.**

Code	Size	Color	Price	Class	Packaging
530052	M24x1,5 x 14/2	■	3,25 €	RA	40 / 160
530052INOX	M24x1,5 x 14/2	■	4,74 €	RA	40 / 160
530066	M24x1,5 x 16/1,5	■	3,32 €	RA	40 / 160
530066INOX	M24x1,5 x 16/1,5	■	4,66 €	RA	40 / 160
530015	M24x1,5 x 16/2	■	3,44 €	RA	40 / 160
530015INOX	M24x1,5 x 16/2	■	4,79 €	RA	40 / 160

- **T = Coppia max. di serraggio.**
- *T = Max. tightening torque.*
- **T = Couple de serrage max.**
- *T = Max. Anzugsdrehmoment.*
- **T = Par de apriete max.**

# THERMOSTATIC HEADS

The thermostat heads are mechanical devices for automatic control of the water flow to heating units, thanks to a heat-sensitive element that reacts to the variations in the room temperature.

A wide range of IVAR thermostatic valve models bear the mark Keymark EN 215, which guarantees conformity of the low thermal inertia system (response time < 40 min). The same systems are accompanied by the TELL energy label. Eurovent Certita certification is also available for numerous thermostatic valves with the T 5000 head.

The heads in the 5000 series are fitted with a liquid element and offer the possibility of limiting and blocking settings. They can also be selected with remote sensors to avoid the problem of obstacles in front of the radiator, and ensure optimal detection of the room temperature.

T 1500 head has a compact size and a simple line; it is particularly suitable to regulate water flow to the radiator when detection of ambient temperature does not need to be remote controlled.

## Materials

Knob and body: ABS

Thermostat: liquid expansion

## Technical specifications

Max. fluid temperature inside valve: 100 °C

Parameters according to EN 215 (T 5000 only)

Hysteresis: 0.5 K

Influence of pressure differential D: 0.25 K

Effect of water temperature W: 0.75 K

Response time Z: 30 min (T 5000); < 40 min (others)

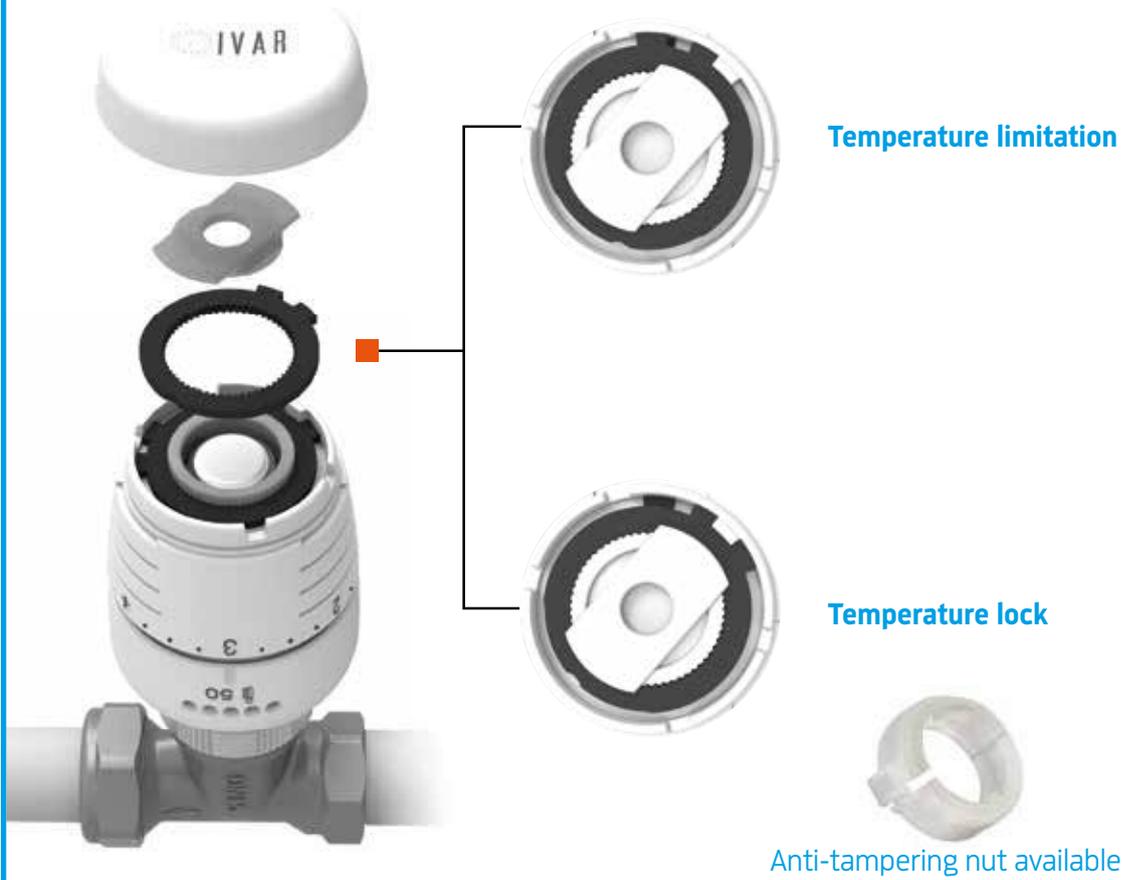
## ⊕ PLUS

- **No temperature imbalances in rooms**
- **Better regulation accuracy**
- **Lowered return temperature, with a significant increase of condensing boiler efficiency**
- **Available with anti-tamper ring nut and temperature limitation/lock functions**
  - ⊕ **FOCUS 1**
  - **Liquid expansion sensor** ⊕ **FOCUS 2**





## FOCUS 1: Temperature limitation and lock

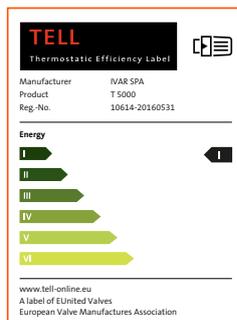
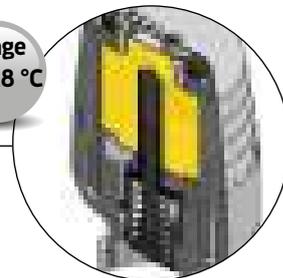


## FOCUS 2: Liquid expansion sensor

T 5000



Range  
6,5-28 °C



### LIQUID SENSOR

Sensitive element that reacts to the variations in room temperature (expanding or retracting) to activate movement of the shutter rod. The thrust on closure is applied thanks to expansion of the sensor element, while the thrust on closure is applied by a counter-spring.

Available with remote capillary sensor

### T 5000



- Testa termostatica con comando e sensore a espansione di liquido incorporati. Isteresi 0,5 K.
- Thermostatic head with incorporated command and liquid expansion sensor. Hysteresis 0.5 K.
- Tête thermostatique avec commande et senseur à expansion de liquide incorporés. Hystérésis 0,5 K.
- Thermostat-Kopf mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler. Hysterese 0,5 K.
- Cabeza termostática con mando y sensor de expansión de líquido incorporados. Histéresis 0,5 K.



Code	Size	D	W	Z	Color	Price	Class	Packaging
501172	M30 x 1,5	0.25 K	0.75 K	30 min	□	13,99 €	AA	10 / 80

### T 5000 CHROME



- Testa termostatica con comando e sensore a espansione di liquido incorporati.
- Thermostatic head with incorporated command and liquid expansion sensor.
- Tête thermostatique avec commande et senseur à expansion de liquide incorporés.
- Thermostat-Kopf mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler.
- Cabeza termostática con mando y sensor de expansión de líquido incorporados.

Code	Size	Z	Range	Color	Price	Class	Packaging
501172C	M30 x 1,5	< 40 min	6,5-28 °C	■	32,92 €	AA	10 / 80

### T 5005



- Testa termostatica con comando e sensore a espansione di liquido incorporati. Isteresi 0,4 K; precisione del controllo (CA) 0,2 K.
- Thermostatic head with incorporated command and liquid expansion sensor. Hysteresis 0.4 K; control accuracy (CA) 0.2 K.
- Tête thermostatique avec commande et senseur à expansion de liquide incorporés. Hystérésis 0,4 K; précision de contrôle (CA) 0,2 K.
- Thermostat-Kopf mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler. Hysterese 0,4 K; Regelgenauigkeit (CA) 0,2 K.
- Cabeza termostática con mando y sensor de expansión de líquido incorporados. Histéresis 0,5 K; precisión de control (CA) 0,2 K.

Code	Size	D	W	Z	Color	Price	Class	Packaging
591142	M30 x 1,5	0.30 K	0.45 K	28 min	□	22,47 €	AA	10 / 80

### T 1500



- Testa termostatica con comando e sensore a espansione di liquido incorporati.
- Thermostatic head with incorporated command and liquid expansion sensor.
- Tête thermostatique avec commande et senseur à expansion de liquide incorporés.
- Thermostat-Kopf mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler.
- Cabeza termostática con mando y sensor de expansión de líquido incorporados.

Code	Size	Z	Range	Color	Price	Class	Packaging
502841	M30 x 1,5	< 40 min	6,5-28 °C	□	11,19 €	AA	16 / 128


**T 5010**


- Testa termostatica con comando incorporato e sensore remoto a parete.
- Thermostatic head with incorporated command and remote wall sensor.
- Tête thermostatique avec commande incorporée et senseur à distance mural.
- Thermostat-Kopf mit eingebauter Steuerung und Wand-Fernfühler.
- Cabeza termostática con mando incorporado y sensor remoto de pared.

Code	Size	Z	Range	Length	Price	Class	Packaging
501173	M30 x 1,5	< 40 min	6,5-28 °C	2 m	37,49 €	AA	5 / 40
501174	M30 x 1,5	< 40 min	6,5-28 °C	5 m	42,63 €	AA	5 / 40

**T 5020**


- Testa termostatica con comando e sensore remoti.
- Thermostatic head with remote command and sensor.
- Tête thermostatique avec commande et senseur à distance.
- Thermostat-Kopf mit Fernsteuerung und Fernfühler.
- Cabeza termostática con mando y sensor remotos.

Code	Size	Z	Range	Length	Price	Class	Packaging
501177	M30 x 1,5	< 40 min	6,5-28 °C	2 m	52,16 €	AA	3 / 24
501178	M30 x 1,5	< 40 min	6,5-28 °C	5 m	58,51 €	AA	3 / 24

**T 5030**


- Testa termostatica con sensore remoto e comando ad incasso.
- Thermostatic head with remote sensor and concealed command.
- Tête thermostatique avec senseur à distance commande d'encaissement.
- Thermostat-Kopf mit Fernfühler und UP-Steuerung.
- Cabeza termostática con sensor remoto y mando empotrable.

Code	Size	Z	Range	Length	Price	Class	Packaging
501179	M30 x 1,5	< 40 min	6,5-28 °C	2 m	50,45 €	AA	2 / 16
501180	M30 x 1,5	< 40 min	6,5-28 °C	5 m	57,05 €	AA	2 / 16

**AT 0001**


- Fascetta antifurto per teste termostatiche serie T 3000 e serie T 5000.
- Anti-theft clamp for thermostatic heads T 5000 series and T 3000 series.
- Collier antivol pour têtes thermostatiques série T 5000 et série T 3000.
- Diebstahlsicherungs-Manschette für Thermostat-Köpfe Serie T 5000 serie und Serie T 3000.
- Abrazadera antirrobo para cabezas termostáticas serie T 3000 y serie T 5000.

Code	Price	Class	Packaging
500250	0,50 €	AE	75 / 600

**AT 0001E**


- Fascetta antifurto per T 1000, T 1500 e AS 1010.
- Anti-theft clamp for T 1000, T 1500 and AS 1010.
- Collier antivol pour T 1000, T 1500 et AS 1010.
- Diebstahlsicherungs-Manschette für T 1000, T 1500 und AS 1010.
- Abrazadera antirrobo para T 1000, T 1500 y AS 1010.

Code	Price	Class	Packaging
500506	1,17 €	AE	30 / 240

A thermostatic valve regulates the ambient temperature and modulates the flow rate in the radiator: when the room temperature is close to the required value, the flow rate in the radiator is reduced, down to very low values. Systems with thermostatic valves are therefore variable flow rate versions.

In a centralised system, how is it possible to distribute the correct flow rate to radiators even with partial loads? In these cases, dynamic balancing valves are often installed at the base of the distribution columns, known as differential pressure balancers. To install this valve, the following is required:

- the location of the distribution columns;
- guaranteed clearance for installation at the base of the distribution column;
- after installation, precise calibration.

**IVAR HARMONIA valves, as well as ideal for use in new systems, are designed to simplify these situations, and are the easiest solution for installation on existing systems.** Combined with a thermostat head, they offer 3 functions:

1. Temperature control, thanks to the thermostat head which modulates flow rate.
2. Pre-setting of the maximum flow rates in 6 positions, to facilitate system activation intervals.
3. Dynamic balancing of system, for effective management of partial loads.

IVAR HARMONIA valves can therefore be installed on any system, without the need for complex calibration procedures. Simply install them, and they will do the rest!

### Materials

Body: nickel-plated brass CW617N

Seals and O-rings: peroxide EPDM

### Technical specifications

Versions available: straight, angle, reverse body and coaxial

Connection diameters: DN 10 and DN 15 for steel or Eurokonus pipes.

Max. fluid temperature inside valve: 120 °C

Maximum operating pressure: 10 bar

Differential pressure range: 0.1 - 0.6 bar

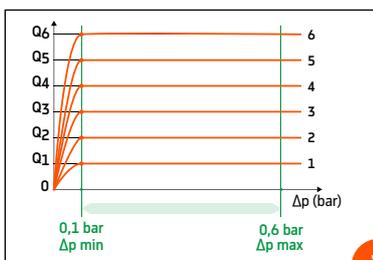
## HARMONIA SERIES VALVES



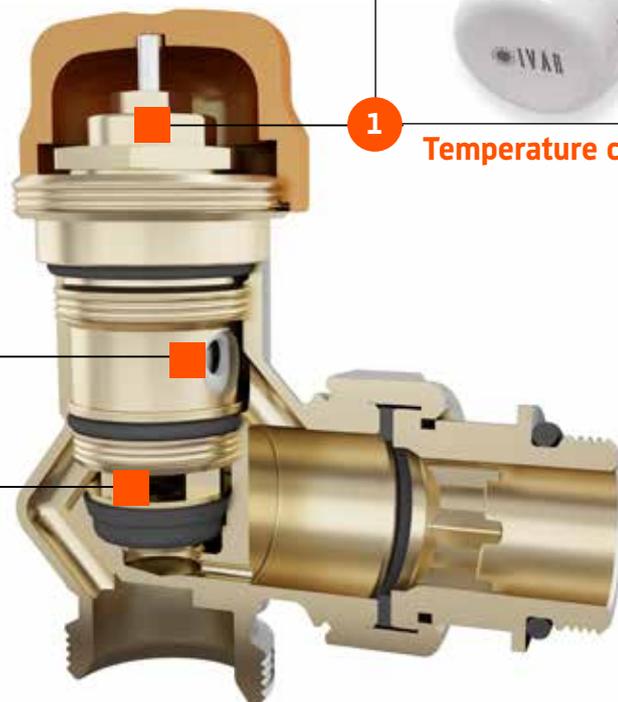
2 Pre-adjustment of flow rates



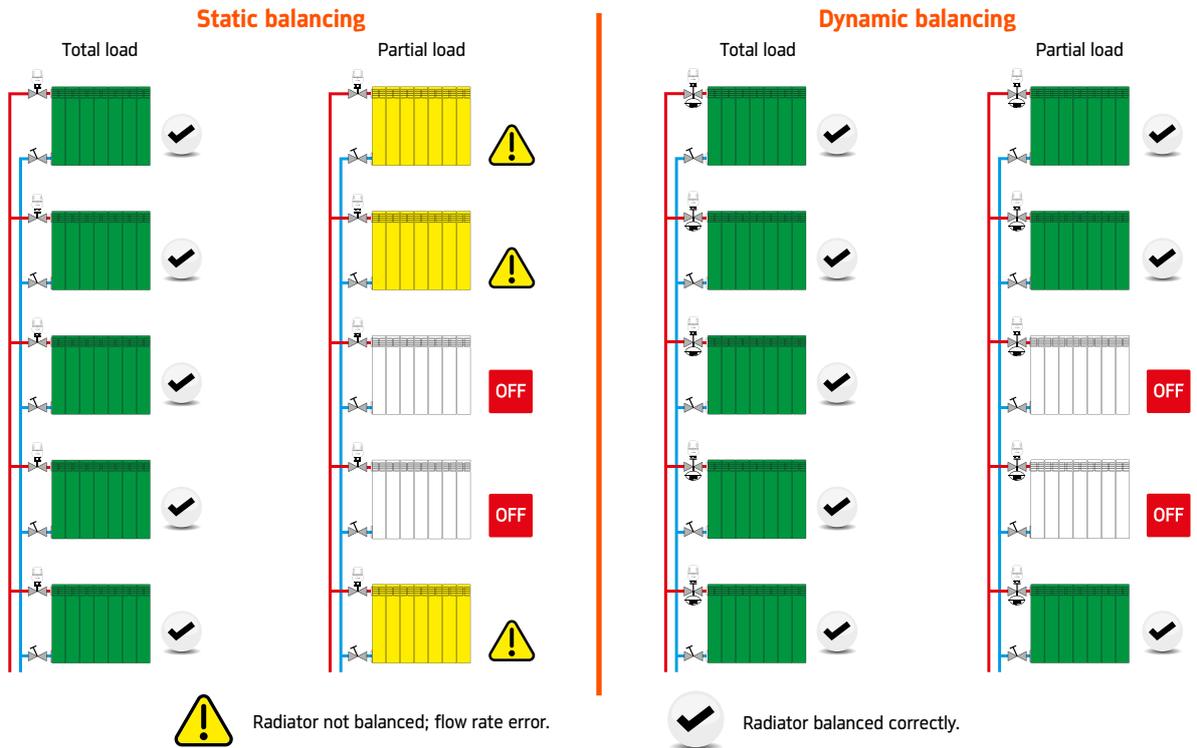
1 Temperature control



3 Dynamic balancing

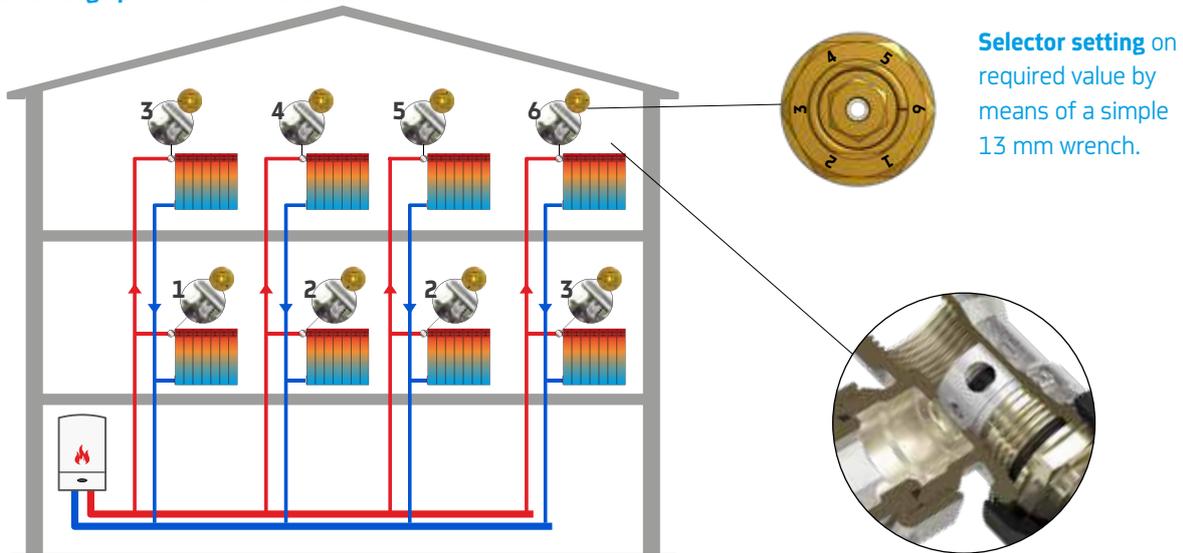


## FOCUS: Static and dynamic balancing



## FOCUS: Pre-regulation

HARMONIA series valves are fitted with a pre-adjustment selector which acts on the flow rate to simplify water balancing operations on the circuits.



## FOCUS: Ring nut substitution

The ring nut is screwed on a special insert and can be replaced even when the system is working.



■ VS 2106 NH



- Valvola termostattizzabile a squadra serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco maschio e cappuccio di protezione.
- Angle thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.
- Robinet thermostatisable équerre série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout mâle capuchon de protection.
- Eck-Thermostatventil Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, AG Anschluß und Schutzkappe.
- Válvula termostatizable de escuadra serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
501185R	EUROK x 3/8" M	49,12 €	BF	10 / 40
501185	EUROK x 1/2" M	49,12 €	BF	10 / 40
501185RCR	EUROK x 3/8" M O-ring	49,64 €	BF	10 / 40
501185RC	EUROK x 1/2" M O-ring	49,64 €	BF	10 / 40

■ VD 2105 NH



- Valvola termostattizzabile diritta serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco maschio e cappuccio di protezione.
- Straight thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.
- Robinet thermostatisable droit série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout mâle capuchon de protection.
- Durchgangs-Thermostatventil Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, AG Anschluß und Schutzkappe.
- Válvula termostatizable recta serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
501188R	EUROK x 3/8" M	49,12 €	BF	10 / 40
501188	EUROK x 1/2" M	49,12 €	BF	10 / 40
501188RCR	EUROK x 3/8" M O-ring	49,64 €	BF	10 / 40
501188RC	EUROK x 1/2" M O-ring	49,64 €	BF	10 / 40

■ VCR 2136 NH



- Valvola termostattizzabile a corpo reverso serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco maschio e cappuccio di protezione.
- Reverse thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.
- Robinet thermostatisable à corps renversé série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout mâle capuchon de protection.
- Revertthermostatventil Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, AG Anschluß und Schutzkappe.
- Válvula termostatizable invertida serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
501192R	EUROK x 3/8" M	49,12 €	BF	10 / 40
501192	EUROK x 1/2" M	49,12 €	BF	10 / 40
501192RCR	EUROK x 3/8" M O-ring	49,64 €	BF	10 / 40
501192RC	EUROK x 1/2" M O-ring	49,64 €	BF	10 / 40



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497


**VS 2102 NH**


- Valvola termostattizzabile a squadra serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco femmina e cappuccio di protezione.
- Angle thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.
- Robinet thermostatisable équerre série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout femelle capuchon de protection.
- Eck-Thermostatventil Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, IG Anschluß und Schutzkappe.
- Válvula termostatzable de escuadra serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
501183	3/8" F x 3/8" M	48,07 €	BF	10 / 40
501184	1/2" F x 1/2" M	49,12 €	BF	10 / 40
501183RC	3/8" F x 3/8" M O-ring	48,59 €	BF	10 / 40
501184RC	1/2" F x 1/2" M O-ring	49,64 €	BF	10 / 40

**VD 2101 NH**


- Valvola termostattizzabile diritta serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco femmina e cappuccio di protezione.
- Straight thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.
- Robinet thermostatisable droit série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout femelle capuchon de protection.
- Durchgangs-Thermostatventil Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, IG Anschluß und Schutzkappe.
- Válvula termostatzable recta serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
501186	3/8" F x 3/8" M	48,07 €	BF	10 / 40
501187	1/2" F x 1/2" M	49,12 €	BF	10 / 40
501186RC	3/8" F x 3/8" M O-ring	48,59 €	BF	10 / 40
501187RC	1/2" F x 1/2" M O-ring	49,64 €	BF	10 / 40

**VCR 2132 NH**


- Valvola termostattizzabile a corpo reverso serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco femmina e cappuccio di protezione.
- Reverse thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.
- Robinet thermostatisable à corps renversé série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout femelle capuchon de protection.
- Revertthermostatventil Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, IG Anschluß und Schutzkappe.
- Válvula termostatzable invertida serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
501189	3/8" F x 3/8" M	48,07 €	BF	10 / 40
501190	1/2" F x 1/2" M	49,12 €	BF	10 / 40
501189RC	3/8" F x 3/8" M O-ring	48,59 €	BF	10 / 40
501190RC	1/2" F x 1/2" M O-ring	49,64 €	BF	10 / 40

■ VCS 2166 NH SX



SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale sinistra serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco maschio e cappuccio di protezione.
- Co-axial left thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.
- Robinet thermostatisable coaxial gauche série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout mâle capuchon de protection.
- Koaxiales Thermostatventil links Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, AG Anschluß und Schutzkappe.
- Válvula termostatzable coaxial izquierda serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500509R	EUROK x 3/8" M	49,12 €	BF	10 / 40
500509	EUROK x 1/2" M	49,12 €	BF	10 / 40
500509RCR	EUROK x 3/8" M O-ring	49,64 €	BF	10 / 40
500509RC	EUROK x 1/2" M O-ring	49,64 €	BF	10 / 40



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

■ VCS 2162 NH SX



SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale sinistra serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco femmina e cappuccio di protezione.
- Co-axial left thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.
- Robinet thermostatisable coaxial gauche série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout femelle capuchon de protection.
- Koaxiales Thermostatventil links Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, IG Anschluß und Schutzkappe.
- Válvula termostatzable coaxial izquierda serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
500507	3/8" F x 3/8" M	48,07 €	BF	10 / 40
500508	1/2" F x 1/2" M	49,12 €	BF	10 / 40
500507RC	3/8" F x 3/8" M O-ring	48,59 €	BF	10 / 40
500508RC	1/2" F x 1/2" M O-ring	49,64 €	BF	10 / 40

■ VCD 2166 NH DX



SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale destra serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco maschio e cappuccio di protezione.
- Co-axial right thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.
- Robinet thermostatisable coaxial droit série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout mâle capuchon de protection.
- Koaxiales Thermostatventil rechts Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, AG Anschluß und Schutzkappe.
- Válvula termostatzable coaxial derecha serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500512R	EUROK x 3/8" M	49,12 €	BF	10 / 40
500512	EUROK x 1/2" M	49,12 €	BF	10 / 40
500512RCR	EUROK x 3/8" M O-ring	49,64 €	BF	10 / 40
500512RC	EUROK x 1/2" M O-ring	49,64 €	BF	10 / 40

■ VCD 2162 NH DX



SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale destra serie HARMONIA con selettore di portata, bilanciamento dinamico della pressione, attacco femmina e cappuccio di protezione.
- Co-axial right thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.
- Robinet thermostatisable coaxial droit série HARMONIA avec sélecteur de débit, équilibrage dynamique de la pression, embout femelle capuchon de protection.
- Koaxiales Thermostatventil rechts Serie HARMONIA mit Durchfluss-Wählschalter, dynamische Abgleichventile des Drucks, IG Anschluß und Schutzkappe.
- Válvula termostatzable coaxial derecha serie HARMONIA con selector de flujo, equilibrio dinámico de la presión, conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
500510	3/8" F x 3/8" M	48,07 €	BF	10 / 40
500511	1/2" F x 1/2" M	49,12 €	BF	10 / 40
500510RC	3/8" F x 3/8" M O-ring	48,59 €	BF	10 / 40
500511RC	1/2" F x 1/2" M O-ring	49,64 €	BF	10 / 40

# THERMOSTATIC VALVES

The thermostatic valve is a device that regulates the flow of water to the radiator and is ready for thermostatic control. The ring nut with control rod can be inspected and replaced while the system is running. The IVAR standard series valves are supplied in all the figures with a manual head or protection caps instead of controls. The pipe fitting can be female (DN10-15-20 for iron pipe) or male EUROK, while the radiator fitting can be a standard union with a tapered seal or a soft seal union including O-ring. The respective versions are available with reduced 3/8" thread (for EUROK valves).

## Standard valves

The standard valves have a plug that moves through the action of the thermostatic head. Standard valves cannot have a pre-set flow rate, which is instead controlled by the lockshield installed at the radiator outlet. All IVAR thermostatic devices have low thermal inertia with a response time of less than 40 min; many of them are EN 215 certified.

## Lockshields

In addition to the inlet valve to the radiator, it is advisable to install a lockshield (see appropriate section) at the outlet with shut-off and regulation functions. IVAR lockshields are available in a version that is paired to the corresponding inlet valve, also in the coaxial figures (200 series). The piping and radiator fittings are similar to those found on the valves.

## Materials

Body: nickel-plated brass CW617N  
Seals and O-rings: peroxide EPDM

## Technical specifications

Max. fluid temperature inside valve: 120 °C  
Maximum operating pressure: 10 bar  
Max. pressure differential with fitted thermostatic head: 0.25 bar



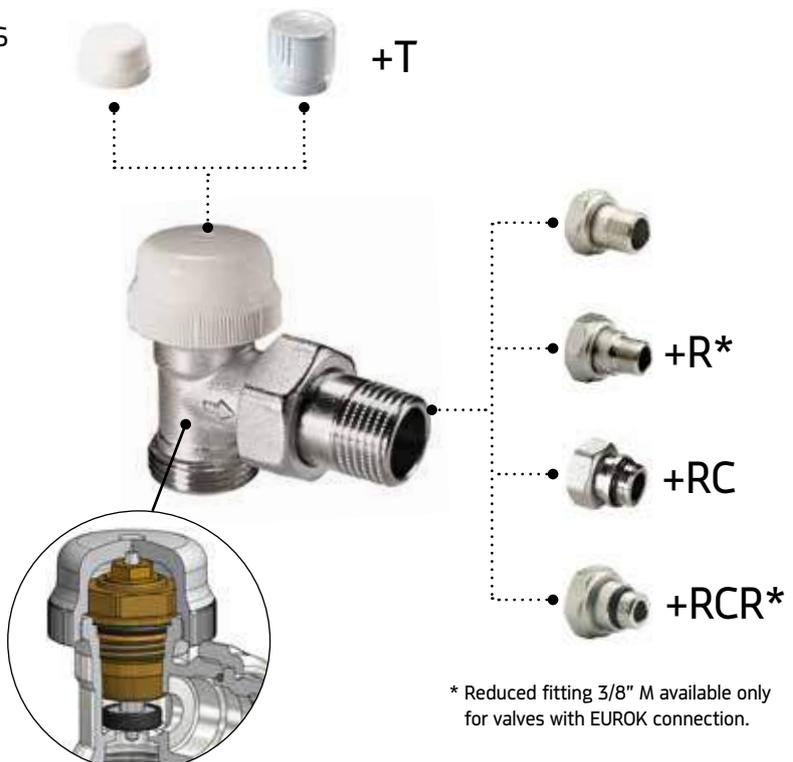
## FOCUS: Ring nut substitution

The ring nut is screwed on a special insert and can be replaced even when the system is working.



## VERSIONS EXAMPLE - STANDARD SERIES

 500805	 -	 +T
 -	500805	500805T
 +R	500805R	500805TR
 +RC	500805RC	500805TRC
 +RCR	500805RCR	500805TRCR



\* Reduced fitting 3/8" M available only for valves with EUROK connection.

■ VS 2106



028

- Valvola termostattizzabile a squadra con attacco maschio e cappuccio di protezione.
- Angle thermostatic valve with male connection and protection cap.
- Robinet thermostatisable équerre avec embout mâle et capuchon de protection.
- Eck-Thermostatventil mit AG Anschluß und Schutzkappe.
- Válvula de escuadra termostatizable con conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500805R	EUROK x 3/8" M	10,44 €	BA	10 / 80
500805	EUROK x 1/2" M	10,15 €	BA	10 / 80
500805RCR	EUROK x 3/8" M O-ring	10,88 €	BA	10 / 80
500805RC	EUROK x 1/2" M O-ring	10,65 €	BA	10 / 80

■ VS 2106 T



- Valvola termostattizzabile a squadra con attacco maschio e testa manuale.
- Angle thermostatic valve with male connection and manual head.
- Robinet thermostatisable équerre avec embout mâle et tête manuelle.
- Eck-Thermostatventil mit AG Anschluß und manueller Hebel.
- Válvula de escuadra termostatizable con conexión macho y cabeza manual.

Code	Size	Price	Class	Packaging
500805TR	EUROK x 3/8" M	11,64 €	BA	10 / 80
500805T	EUROK x 1/2" M	11,35 €	BA	10 / 80
500805TRCR	EUROK x 3/8" M O-ring	12,08 €	BA	10 / 80
500805TRC	EUROK x 1/2" M O-ring	11,85 €	BA	10 / 80

■ VD 2105



028

- Valvola termostattizzabile diritta con attacco maschio e cappuccio di protezione.
- Straight thermostatic valve with male connection and protection cap.
- Robinet thermostatisable droit avec embout mâle et capuchon de protection.
- Durchgangs-Thermostatventil mit AG Anschluß und Schutzkappe.
- Válvula recta termostatizable con conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500473R	EUROK x 3/8" M	11,35 €	BA	10 / 80
500473	EUROK x 1/2" M	11,06 €	BA	10 / 80
500473RCR	EUROK x 3/8" M O-ring	11,79 €	BA	10 / 80
500473RC	EUROK x 1/2" M O-ring	11,56 €	BA	10 / 80

■ VD 2105 T



- Valvola termostattizzabile diritta con attacco maschio e testa manuale.
- Straight thermostatic valve with male connection and manual head.
- Robinet thermostatisable droit avec embout mâle et tête manuelle.
- Durchgangs-Thermostatventil mit AG Anschluß und manueller Hebel.
- Válvula recta termostatizable con conexión macho y cabeza manual.

Code	Size	Price	Class	Packaging
500473TR	EUROK x 3/8" M	12,55 €	BA	10 / 80
500473T	EUROK x 1/2" M	12,26 €	BA	10 / 80
500473TRCR	EUROK x 3/8" M O-ring	12,99 €	BA	10 / 80
500473TRC	EUROK x 1/2" M O-ring	12,76 €	BA	10 / 80

■ VCR 2136



- Valvola termostattizzabile a corpo reverso con attacco maschio e cappuccio di protezione.
- Reverse thermostatic valve with male connection and protection cap.
- Robinet thermostatisable à corps renversé avec embout mâle et capuchon de protection.
- Reversthermostatventil mit AG Anschluß und Schutzkappe.
- Válvula termostatizable invertida con conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500558R	EUROK x 3/8" M	12,00 €	BA	10 / 80
500558	EUROK x 1/2" M	11,70 €	BA	10 / 80
500558RCR	EUROK x 3/8" M O-ring	12,44 €	BA	10 / 80
500558RC	EUROK x 1/2" M O-ring	12,21 €	BA	10 / 80

■ VCR 2136 T



- Valvola termostattizzabile a corpo reverso con attacco maschio e testa manuale.
- Reverse thermostatic valve with male connection and manual head.
- Robinet thermostatisable à corps renversé avec embout mâle et tête manuelle.
- Reversthermostatventil mit AG Anschluß und manueller Hebel.
- Válvula termostatizable invertida con conexión macho y cabeza manual.

Code	Size	Price	Class	Packaging
500558TR	EUROK x 3/8" M	13,20 €	BA	10 / 80
500558T	EUROK x 1/2" M	12,91 €	BA	10 / 80
500558TRCR	EUROK x 3/8" M O-ring	13,64 €	BA	10 / 80
500558TRC	EUROK x 1/2" M O-ring	13,41 €	BA	10 / 80



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

**VS 2102**


- Valvola termostattizzabile a squadra con attacco femmina e cappuccio di protezione.
- Angle thermostatic valve with female connection and protection cap.
- Robinet thermostatisable équerre avec embout femelle et capuchon de protection.
- Eck-Thermostatventil mit IG Anschluß und Schutzkappe.
- Válvula de escuadra termostatzabile con conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
500500	3/8" F x 3/8" M	9,26 €	BA	10 / 80
500501	1/2" F x 1/2" M	10,39 €	BA	10 / 80
500309	3/4" F x 3/4" M	15,73 €	BA	8 / 64
500500RC	3/8" F x 3/8" M O-ring	10,26 €	BA	10 / 80
500501RC	1/2" F x 1/2" M O-ring	10,89 €	BA	10 / 80
500309RC	3/4" F x 3/4" M O-ring	16,53 €	BA	8 / 64

**VS 2102 T**


- Valvola termostattizzabile a squadra con attacco femmina e testa manuale.
- Angle thermostatic valve with female connection and manual head.
- Robinet thermostatisable équerre avec embout femelle et tête manuelle.
- Eck-Thermostatventil mit IG Anschluß und manueller Hebel.
- Válvula de escuadra termostatzabile con conexión hembra y cabeza manual.

Code	Size	Price	Class	Packaging
500500T	3/8" F x 3/8" M	10,46 €	BA	10 / 80
500501T	1/2" F x 1/2" M	11,59 €	BA	10 / 80
500309T	3/4" F x 3/4" M	16,93 €	BA	8 / 64
500500TRC	3/8" F x 3/8" M O-ring	11,46 €	BA	10 / 80
500501TRC	1/2" F x 1/2" M O-ring	12,09 €	BA	10 / 80
500309TRC	3/4" F x 3/4" M O-ring	17,73 €	BA	8 / 64

**VD 2101**


- Valvola termostattizzabile diritta con attacco femmina e cappuccio di protezione.
- Straight thermostatic valve with female connection and protection cap.
- Robinet thermostatisable droit avec embout femelle et capuchon de protection.
- Durchgangs-Thermostatventil mit IG Anschluß und Schutzkappe.
- Válvula recta termostatzabile con conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
500439	3/8" F x 3/8" M	10,29 €	BA	10 / 80
500440	1/2" F x 1/2" M	11,29 €	BA	10 / 80
500308	3/4" F x 3/4" M	16,72 €	BA	8 / 32
500439RC	3/8" F x 3/8" M O-ring	11,30 €	BA	10 / 80
500440RC	1/2" F x 1/2" M O-ring	11,79 €	BA	10 / 80
500308RC	3/4" F x 3/4" M O-ring	17,52 €	BA	8 / 32

**VD 2101 T**


- Valvola termostattizzabile diritta con attacco femmina e testa manuale.
- Straight thermostatic valve with female connection and manual head.
- Robinet thermostatisable droit avec embout femelle et tête manuelle.
- Durchgangs-Thermostatventil mit IG Anschluß und manueller Hebel.
- Válvula recta termostatzabile con conexión hembra y cabeza manual.

Code	Size	Price	Class	Packaging
500439T	3/8" F x 3/8" M	11,50 €	BA	10 / 80
500440T	1/2" F x 1/2" M	12,49 €	BA	10 / 80
500308T	3/4" F x 3/4" M	17,92 €	BA	8 / 32
500439TRC	3/8" F x 3/8" M O-ring	12,50 €	BA	10 / 80
500440TRC	1/2" F x 1/2" M O-ring	12,99 €	BA	10 / 80
500308TRC	3/4" F x 3/4" M O-ring	18,73 €	BA	8 / 32

**VCR 2132**


- Valvola termostattizzabile a corpo reverso con attacco femmina e cappuccio di protezione.
- Reverse thermostatic valve with female connection and protection cap.
- Robinet thermostatisable à corps renversé avec embout femelle et capuchon de protection.
- Revertthermostatventil mit IG Anschluß und Schutzkappe.
- Válvula termostatzabile invertida con conexión hembra y capuchón de protección.

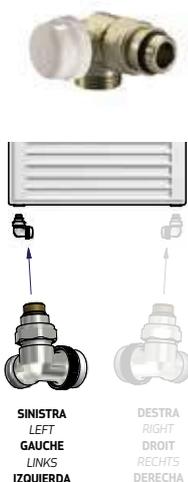
Code	Size	Price	Class	Packaging
500399	1/2" F x 1/2" M	11,70 €	BA	10 / 80
500399RC	1/2" F x 1/2" M O-ring	12,21 €	BA	10 / 80

**VCR 2132 T**


- Valvola termostattizzabile a corpo reverso con attacco femmina e testa manuale.
- Reverse thermostatic valve with female connection and manual head.
- Robinet thermostatisable à corps renversé avec embout femelle et tête manuelle.
- Revertthermostatventil mit IG Anschluß und manueller Hebel.
- Válvula termostatzabile invertida con conexión hembra y cabeza manual.

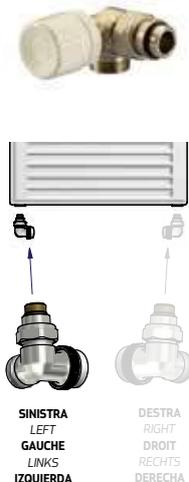
Code	Size	Price	Class	Packaging
500399T	1/2" F x 1/2" M	12,64 €	BA	10 / 80
500399TRC	1/2" F x 1/2" M O-ring	13,15 €	BA	10 / 80

■ VCS 2166 SX



- Valvola termostattizzabile coassiale sinistra con attacco maschio e cappuccio di protezione.
- Co-axial left thermostatic valve with male connection and protection cap.
- Robinet thermostatisable coaxial gauche avec embout mâle et capuchon de protection.
- Koaxiales Thermostatventil links mit AG Anschluß und Schutzkappe.
- Válvula termostatzable coaxial izquierda con conexión macho y capuchón de protección.

■ VCS 2166 SXT

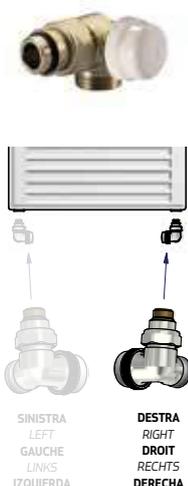


- Valvola termostattizzabile coassiale sinistra con attacco maschio e testa manuale.
- Co-axial left thermostatic valve with male connection and manual head.
- Robinet thermostatisable coaxial gauche avec embout mâle et tête manuelle.
- Koaxiales Thermostatventil links mit AG Anschluß und manueller Hebel.
- Válvula termostatzable coaxial izquierda con conexión macho y cabeza manual.

Code	Size	Price	Class	Packaging
500518R	EUROK x 3/8" M	15,08 €	BA	10 / 80
500518	EUROK x 1/2" M	14,79 €	BA	10 / 80
500518RCR	EUROK x 3/8" M O-ring	15,52 €	BA	10 / 80
500518RC	EUROK x 1/2" M O-ring	15,29 €	BA	10 / 80

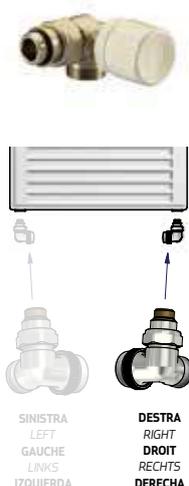
Code	Size	Price	Class	Packaging
500518TR	EUROK x 3/8" M	16,28 €	BA	10 / 80
500518T	EUROK x 1/2" M	15,99 €	BA	10 / 80
500518TRCR	EUROK x 3/8" M O-ring	16,72 €	BA	10 / 80
500518TRC	EUROK x 1/2" M O-ring	16,49 €	BA	10 / 80

■ VCD 2166 DX



- Valvola termostattizzabile coassiale destra con attacco maschio e cappuccio di protezione.
- Co-axial right thermostatic valve with male connection and protection cap.
- Robinet thermostatisable coaxial droit avec embout mâle et capuchon de protection.
- Koaxiales Thermostatventil rechts mit AG Anschluß und Schutzkappe.
- Válvula termostatzable coaxial derecha con conexión macho y capuchón de protección.

■ VCD 2166 DXT



- Valvola termostattizzabile coassiale destra con attacco maschio e testa manuale.
- Co-axial right thermostatic valve with male connection and manual head.
- Robinet thermostatisable coaxial droit avec embout mâle et tête manuelle.
- Koaxiales Thermostatventil rechts mit AG Anschluß und manueller Hebel.
- Válvula termostatzable coaxial derecha con conexión macho y cabeza manual.

Code	Size	Price	Class	Packaging
500430R	EUROK x 3/8" M	15,08 €	BA	10 / 80
500430	EUROK x 1/2" M	14,79 €	BA	10 / 80
500430RCR	EUROK x 3/8" M O-ring	15,52 €	BA	10 / 80
500430RC	EUROK x 1/2" M O-ring	15,29 €	BA	10 / 80

Code	Size	Price	Class	Packaging
500430TR	EUROK x 3/8" M	16,28 €	BA	10 / 80
500430T	EUROK x 1/2" M	15,99 €	BA	10 / 80
500430TRCR	EUROK x 3/8" M O-ring	16,72 €	BA	10 / 80
500430TRC	EUROK x 1/2" M O-ring	16,49 €	BA	10 / 80



- Raccordo per tubo in rame >> p. 77,82,150,497
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- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

**VCS 2162 SX**


SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale sinistra con attacco femmina e cappuccio di protezione.
- Co-axial left thermostatic valve with female connection and protection cap.
- Robinet thermostatisable coaxial gauche avec embout femelle et capuchon de protection.
- Koaxiales Thermostatventil links mit IG Anschluß und Schutzkappe.
- Válvula termostatzable coaxial izquierda con conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
506077SX	3/8" F x 3/8" M	14,79 €	BA	10 / 80
500433	1/2" F x 1/2" M	14,79 €	BA	10 / 80
506077SXRC	3/8" F x 3/8" M O-ring	15,79 €	BA	10 / 80
500433RC	1/2" F x 1/2" M O-ring	15,29 €	BA	10 / 80

**VCS 2162 SXT**


SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale sinistra con attacco femmina e testa manuale.
- Co-axial left thermostatic valve with female connection and manual head.
- Robinet thermostatisable coaxial gauche avec embout femelle et tête manuelle.
- Koaxiales Thermostatventil links mit IG Anschluß und manueller Hebel.
- Válvula termostatzable coaxial izquierda con conexión hembra y cabeza manual.

Code	Size	Price	Class	Packaging
506077SXT	3/8" F x 3/8" M	15,99 €	BA	10 / 80
500433T	1/2" F x 1/2" M	15,99 €	BA	10 / 80
506077SXTRC	3/8" F x 3/8" M O-ring	16,99 €	BA	10 / 80
500433TRC	1/2" F x 1/2" M O-ring	16,49 €	BA	10 / 80

**VCD 2162 DX**


SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale destra con attacco femmina e cappuccio di protezione.
- Co-axial right thermostatic valve with female connection and protection cap.
- Robinet thermostatisable coaxial droit avec embout femelle et capuchon de protection.
- Koaxiales Thermostatventil rechts mit IG Anschluß und Schutzkappe.
- Válvula termostatzable coaxial derecha con conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
506077DX	3/8" F x 3/8" M	14,79 €	BA	10 / 80
500829	1/2" F x 1/2" M	14,79 €	BA	10 / 80
506077DXRC	3/8" F x 3/8" M O-ring	15,79 €	BA	10 / 80
500829RC	1/2" F x 1/2" M O-ring	15,29 €	BA	10 / 80

**VCD 2162 DXT**


SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale destra con attacco femmina e testa manuale.
- Co-axial right thermostatic valve with female connection and manual head.
- Robinet thermostatisable coaxial droit avec embout femelle et tête manuelle.
- Koaxiales Thermostatventil rechts mit IG Anschluß und manueller Hebel.
- Válvula termostatzable coaxial derecha con conexión hembra y cabeza manual.

Code	Size	Price	Class	Packaging
506077DXT	3/8" F x 3/8" M	15,99 €	BA	10 / 80
500829T	1/2" F x 1/2" M	15,99 €	BA	10 / 80
506077DXTRC	3/8" F x 3/8" M O-ring	16,99 €	BA	10 / 80
500829TRC	1/2" F x 1/2" M O-ring	16,49 €	BA	10 / 80

■ VD 2127



- Valvola termostattizzabile diritta con cappuccio di protezione e attacchi maschio senza bocchettone.
- Straight thermostatic valve with protection cap and male connections without fitting.
- Robinet thermostatisable droit avec capuchon de protection et embouts mâle sans goulotte.
- Durchgangs-Thermostatventil mit Schutzkappe und AG Anschlüsse ohne Stutzen.
- Válvula recta termostatizable con capuchón de protección y conexiones macho sin racor.

Code	Size	Price	Class	Packaging
500890	EUROK x EUROK	8,80 €	BA	10 / 80

■ VD 2127 T



- Valvola termostattizzabile diritta con testa manuale e attacchi maschio senza bocchettone.
- Straight thermostatic valve with manual head and male connections without fitting.
- Robinet thermostatisable droit avec tête manuelle et embouts mâle sans goulotte.
- Durchgangs-Thermostatventil mit manueller Hebel und AG Anschlüsse ohne Stutzen.
- Válvula recta termostatizable con cabeza manual y conexiones macho sin racor.

Code	Size	Price	Class	Packaging
500890T	EUROK x EUROK	10,00 €	BA	10 / 80

■ VD 2115



- Valvola termostattizzabile diritta con attacco maschio, bocchettone ad angolo e cappuccio di protezione.
- Straight thermostatic valve with male connection, angle fitting and protection cap.
- Robinet thermostatisable droit avec embout mâle, goulotte à angle et capuchon de protection.
- Durchgangs-Thermostatventil mit AG Anschluß, Winkel-Stutzen und Schutzkappe.
- Válvula recta termostatizable con conexión macho, boquilla en ángulo y capuchón de protección.

Code	Size	Price	Class	Packaging
500496	EUROK x 1/2" M	14,00 €	BA	10 / 80

■ VD 2111



- Valvola termostattizzabile diritta con attacco femmina, bocchettone ad angolo e cappuccio di protezione.
- Straight thermostatic valve with female connection, angle fitting and protection cap.
- Robinet thermostatisable droit avec embout femelle, goulotte à angle et capuchon de protection.
- Durchgangs-Thermostatventil mit IG Anschluß, Winkel-Stutzen und Schutzkappe.
- Válvula recta termostatizable con conexión hembra, boquilla en ángulo y capuchón de protección.

Code	Size	Price	Class	Packaging
500479	1/2" F x 1/2" M	14,21 €	BA	10 / 40



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

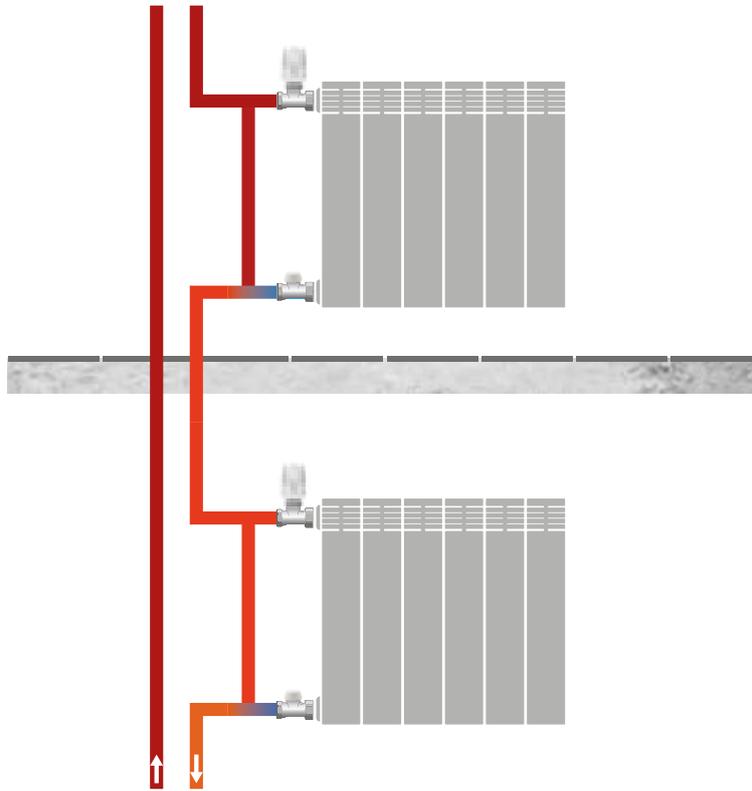


IVAR offers a new range of thermostatic valves for high flow rates.

These valves are available in the straight and angle versions, for steel DN 25 and DN 32 pipes, with tapered or soft seal outlets.

These valves are designed to ensure high flow rate coefficients, making them ideal in renovations of existing single-pipe systems with bypass Tee-fittings upline of the valve.

These valves are compatible with all thermostat heads in the IVAR range.



### VS 2102 XL



- Valvola termostattizzabile a squadra per elevate portate con attacco femmina e cappuccio di protezione.
- Angle thermostatic valve for high flow capacity with female connection and protection cap.
- Robinet thermostatisable équerre pour débit élevé avec embout femelle et capuchon de protection.
- Eck-Thermostatventil für erhöhte Durchfluss mit IG-Anschluß und Schutzkappe.
- Válvula de escuadra termostatizable para caudales elevados con conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
500503	1" F x 1" M	47,46 €	BA	5 / 40
500505	1"1/4 F x 1"1/4 M	61,77 €	BA	4 / 32
500503RC	1" F x 1" M O-ring	49,16 €	BA	5 / 40
500505RC	1"1/4 F x 1"1/4 M O-ring	63,90 €	BA	4 / 32

### VD 2101 XL



- Valvola termostattizzabile diritta per elevate portate con attacco femmina e cappuccio di protezione.
- Straight thermostatic valve for high flow capacity with female connection and protection cap.
- Robinet thermostatisable droit pour débit élevé avec embout femelle et capuchon de protection.
- Durchgangs-Thermostatventil für erhöhte Durchfluss mit IG-Anschluß und Schutzkappe.
- Válvula recta termostatizable para caudales elevados con conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
500502	1" F x 1" M	49,13 €	BA	5 / 40
500504	1"1/4 F x 1"1/4 M	69,44 €	BA	4 / 32
500502RC	1" F x 1" M O-ring	50,73 €	BA	5 / 40
500504RC	1"1/4 F x 1"1/4 M O-ring	71,57 €	BA	4 / 32

The thermostatic valve is a device that regulates the flow of water to the radiator and has provision for thermostatic control. The ring nut with control rod can be inspected and replaced while the system is running.

The IVAR N series valves are supplied in all the figures with a manual head or protection caps (**black for N series**) instead of controls. The pipe fitting can be female (DN10-15-20 for iron pipe) or male EUROK, while the radiator fitting can be a standard union with a tapered seal or a soft seal union including O-ring. The respective versions are available with reduced 3/8" thread (for EUROK valves).

#### "N" series valves with pre-set flow rate

In addition to the plug, valves with pre-set flow rate have a selector with six different calibrated holes (Kv 0.1-0.6), which offer different levels of resistance to the water flow depending on the design characteristics and the position of the radiator in the circuit.

All IVAR thermostatic devices have low thermal inertia with a response time of less than 40 min; many of them are EN 215 certified.

#### Lockshields

In addition to the inlet valve to the radiator, it is advisable to install a lockshield (see appropriate section) at the outlet with shut-off and regulation functions. IVAR lockshields are available in a version that is paired to the corresponding inlet valve, also in the coaxial figures (200 series). The piping and radiator fittings are similar to those found on the valves.

#### Materials

Body: nickel-plated brass CW617N

Seals and O-rings: peroxide EPDM

#### Technical specifications

Max. fluid temperature inside valve: 120 °C

Maximum operating pressure: 10 bar

Max. pressure differential with fitted thermostatic head: 0.25 bar



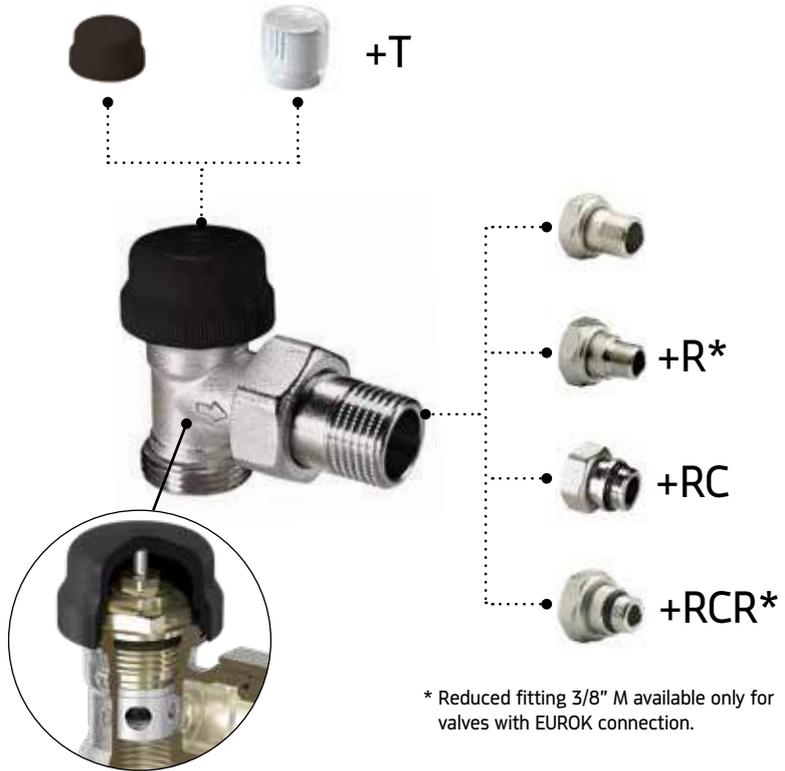
### FOCUS: Ring nut substitution

The ring nut is screwed on a special insert and can be replaced even when the system is working.

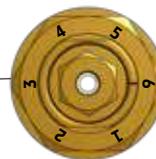
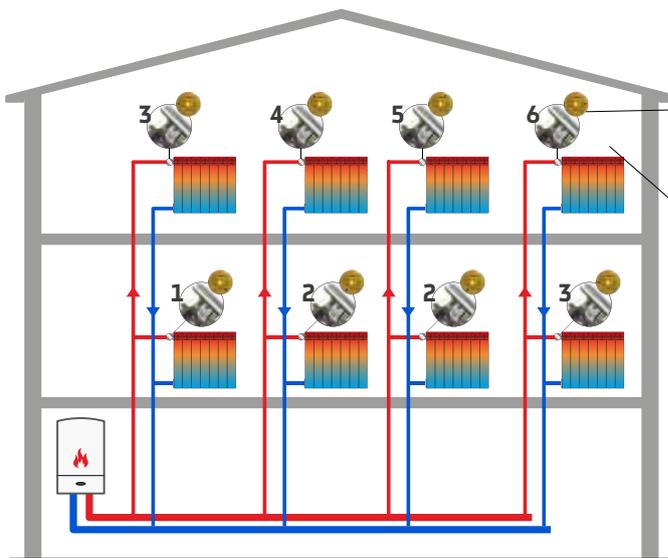


**VERSIONS EXAMPLE - N SERIES**

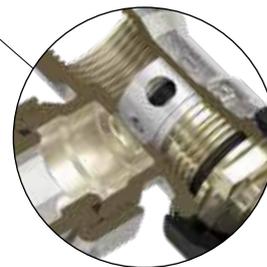
		
<b>500806</b>	-	+T
	500806	500806T
-		
	500806R	500806TR
+R		
	500806RC	500806TRC
+RC		
	500806RCR	500806TRCR
+RCR		


**FOCUS: Pre-regulation**

N series valves are fitted with a pre-adjustment selector which acts on the flow rate to simplify water balancing operations on the circuits.



**Selector setting** on required value by means of a simple 13 mm wrench.



### ■ VS 2106 N



028

- Valvola termostattabile a squadra serie N con selettore di portata, attacco maschio e cappuccio di protezione.
- Angle thermostatic valve N-series with flow rate selector, male connection and protection cap.
- Robinet thermostatisable équerre série N avec sélecteur de débit, embout mâle et capuchon de protection.
- Eck-Thermostatventil Serie N mit Durchfluss-Wählschalter, AG Anschluß und Schutzkappe.
- Válvula termostatzabile de escuadra serie N con selector de flujo, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500806R	EUROK x 3/8" M	11,48 €	BC	10 / 80
500806	EUROK x 1/2" M	11,19 €	BC	10 / 80
500806RCR	EUROK x 3/8" M O-ring	11,92 €	BC	10 / 80
500806RC	EUROK x 1/2" M O-ring	11,69 €	BC	10 / 80

### ■ VS 2106 NT



- Valvola termostattabile a squadra serie N con selettore di portata, attacco maschio e testa manuale.
- Angle thermostatic valve N-series with flow rate selector, male connection and manual head.
- Robinet thermostatisable équerre série N avec sélecteur de débit, embout mâle et tête manuelle.
- Eck-Thermostatventil Serie N mit Durchfluss-Wählschalter, AG Anschluß und manueller Hebel.
- Válvula termostatzabile de escuadra serie N con selector de flujo, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500806TR	EUROK x 3/8" M	12,69 €	BC	10 / 80
500806T	EUROK x 1/2" M	12,39 €	BC	10 / 80
500806TRCR	EUROK x 3/8" M O-ring	13,13 €	BC	10 / 80
500806TRC	EUROK x 1/2" M O-ring	12,90 €	BC	10 / 80

### ■ VD 2105 N



028

- Valvola termostattabile diritta serie N con selettore di portata, attacco maschio e cappuccio di protezione.
- Straight thermostatic valve N-series with flow rate selector, male connection and protection cap.
- Robinet thermostatisable droit série N avec sélecteur de débit, embout mâle et capuchon de protection.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, AG Anschluß und Schutzkappe.
- Válvula termostatzabile recta serie N con selector de flujo, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500474R	EUROK x 3/8" M	12,39 €	BC	10 / 80
500474	EUROK x 1/2" M	12,10 €	BC	10 / 80
500474RCR	EUROK x 3/8" M O-ring	12,83 €	BC	10 / 80
500474RC	EUROK x 1/2" M O-ring	12,60 €	BC	10 / 80

### ■ VD 2105 NT



- Valvola termostattabile diritta serie N con selettore di portata, attacco maschio e testa manuale.
- Straight thermostatic valve N-series with flow rate selector, male connection and manual head.
- Robinet thermostatisable droit série N avec sélecteur de débit, embout mâle et tête manuelle.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, AG Anschluß und manueller Hebel.
- Válvula termostatzabile recta serie N con selector de flujo, conexión macho y cabeza manual.

Code	Size	Price	Class	Packaging
500474TR	EUROK x 3/8" M	13,60 €	BC	10 / 80
500474T	EUROK x 1/2" M	13,30 €	BC	10 / 80
500474TRCR	EUROK x 3/8" M O-ring	14,03 €	BC	10 / 80
500474TRC	EUROK x 1/2" M O-ring	13,80 €	BC	10 / 80

### ■ VCR 2136 N



- Valvola termostattabile a corpo reverso serie N con selettore di portata, attacco maschio e cappuccio di protezione.
- Reverse thermostatic valve N-series with flow rate selector, male connection and protection cap.
- Robinet thermostatisable à corps renversé série N avec sélecteur de débit, embout mâle et capuchon de protection.
- Revertthermostatventil Serie N mit Durchfluss-Wählschalter, AG Anschluß und Schutzkappe.
- Válvula termostatzabile invertida serie N con selector de flujo, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500827R	EUROK x 3/8" M	13,04 €	BC	10 / 80
500827	EUROK x 1/2" M	12,75 €	BC	10 / 80
500827RCR	EUROK x 3/8" M O-ring	13,48 €	BC	10 / 80
500827RC	EUROK x 1/2" M O-ring	13,25 €	BC	10 / 80

### ■ VCR 2136 NT



- Valvola termostattabile a corpo reverso serie N con selettore di portata, attacco maschio e testa manuale.
- Reverse thermostatic valve N-series with flow rate selector, male connection and manual head.
- Robinet thermostatisable à corps renversé série N avec sélecteur de débit, embout mâle et tête manuelle.
- Revertthermostatventil Serie N mit Durchfluss-Wählschalter, AG Anschluß und manueller Hebel.
- Válvula termostatzabile invertida serie N con selector de flujo, conexión macho y cabeza manual.

Code	Size	Price	Class	Packaging
500827TR	EUROK x 3/8" M	14,24 €	BC	10 / 80
500827T	EUROK x 1/2" M	13,95 €	BC	10 / 80
500827TRCR	EUROK x 3/8" M O-ring	14,68 €	BC	10 / 80
500827TRC	EUROK x 1/2" M O-ring	14,45 €	BC	10 / 80



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

**■ VS 2102 N**


028

- Valvola termostattizzabile a squadra serie N con selettore di portata, attacco femmina e cappuccio di protezione.
- Angle thermostatic valve N-series with flow rate selector, female connection and protection cap.
- Robinet thermostatisable équerre série N avec sélecteur de débit, embout femelle et capuchon de protection.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, IG Anschluß und Schutzkappe.
- Válvula termostatizable de escuadra serie N con selector de flujo, conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
500870	3/8" F x 3/8" M	10,30 €	BC	10 / 80
500513	1/2" F x 1/2" M	11,43 €	BC	10 / 80
500384	3/4" F x 3/4" M	16,77 €	BC	8 / 64
500870RC	3/8" F x 3/8" M O-ring	11,31 €	BC	10 / 80
500513RC	1/2" F x 1/2" M O-ring	11,93 €	BC	10 / 80
500384RC	3/4" F x 3/4" M O-ring	17,58 €	BC	8 / 64

**■ VS 2102 NT**


- Valvola termostattizzabile a squadra serie N con selettore di portata, attacco femmina e testa manuale.
- Angle thermostatic valve N-series with flow rate selector, female connection and manual head.
- Robinet thermostatisable équerre série N avec sélecteur de débit, embout femelle et tête manuelle.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, IG Anschluß und manueller Hebel.
- Válvula termostatizable de escuadra serie N con selector de flujo, conexión hembra y cabeza manual.

Code	Size	Price	Class	Packaging
500870T	3/8" F x 3/8" M	11,51 €	BC	10 / 80
500513T	1/2" F x 1/2" M	12,63 €	BC	10 / 80
500384T	3/4" F x 3/4" M	17,97 €	BC	8 / 64
500870TRC	3/8" F x 3/8" M O-ring	12,51 €	BC	10 / 80
500513TRC	1/2" F x 1/2" M O-ring	13,14 €	BC	10 / 80
500384TRC	3/4" F x 3/4" M O-ring	18,78 €	BC	8 / 64

**■ VD 2101 N**


028

- Valvola termostattizzabile diritta serie N con selettore di portata, attacco femmina e cappuccio di protezione.
- Straight thermostatic valve N-series with flow rate selector, female connection and protection cap.
- Robinet thermostatisable droit série N avec sélecteur de débit, embout femelle et capuchon de protection.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, IG Anschluß und Schutzkappe.
- Válvula termostatizable recta serie N con selector de flujo, conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
500888	3/8" F x 3/8" M	11,34 €	BC	10 / 80
500459	1/2" F x 1/2" M	12,33 €	BC	10 / 80
500382	3/4" F x 3/4" M	17,77 €	BC	8 / 64
500888RC	3/8" F x 3/8" M O-ring	12,34 €	BC	10 / 80
500459RC	1/2" F x 1/2" M O-ring	12,83 €	BC	10 / 80
500382RC	3/4" F x 3/4" M O-ring	18,57 €	BC	8 / 64

**■ VD 2101 NT**


- Valvola termostattizzabile diritta serie N con selettore di portata, attacco femmina e testa manuale.
- Straight thermostatic valve N-series with flow rate selector, female connection and manual head.
- Robinet thermostatisable droit série N avec sélecteur de débit, embout femelle et tête manuelle.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, IG Anschluß und manueller Hebel.
- Válvula termostatizable recta serie N con selector de flujo, conexión hembra y cabeza manual.

Code	Size	Price	Class	Packaging
500888T	3/8" F x 3/8" M	12,54 €	BC	10 / 80
500459T	1/2" F x 1/2" M	13,53 €	BC	10 / 80
500382T	3/4" F x 3/4" M	18,97 €	BC	8 / 64
500888TRC	3/8" F x 3/8" M O-ring	13,54 €	BC	10 / 80
500459TRC	1/2" F x 1/2" M O-ring	14,03 €	BC	10 / 80
500382TRC	3/4" F x 3/4" M O-ring	19,77 €	BC	8 / 64

**■ VCR 2132 N**


- Valvola termostattizzabile a corpo reverso serie N con selettore di portata, attacco femmina e cappuccio di protezione.
- Reverse thermostatic valve N-series with flow rate selector, female connection and protection cap.
- Robinet thermostatisable à corps renversé série N avec sélecteur de débit, embout femelle et capuchon de protection.
- Reversthermostatventil Serie N mit Durchfluss-Wählschalter, IG Anschluß und Schutzkappe.
- Válvula termostatizable invertida serie N con selector de flujo, conexión hembra y capuchón de protección.

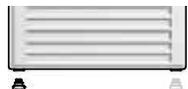
Code	Size	Price	Class	Packaging
500810	1/2" F x 1/2" M	12,75 €	BC	10 / 80
500810RC	1/2" F x 1/2" M O-ring	13,25 €	BC	10 / 80

**■ VCR 2132 NT**


- Valvola termostattizzabile a corpo reverso serie N con selettore di portata, attacco femmina e testa manuale.
- Reverse thermostatic valve N-series with flow rate selector, female connection and manual head.
- Robinet thermostatisable à corps renversé série N avec sélecteur de débit, embout femelle et tête manuelle.
- Reversthermostatventil Serie N mit Durchfluss-Wählschalter, IG Anschluß und manueller Hebel.
- Válvula termostatizable invertida serie N con selector de flujo, conexión hembra y cabeza manual.

Code	Size	Price	Class	Packaging
500810T	1/2" F x 1/2" M	13,69 €	BC	10 / 80
500810TRC	1/2" F x 1/2" M O-ring	14,19 €	BC	10 / 80

■ VCS 2166 N SX



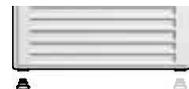
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DERECHA

- Valvola termostattizzabile coassiale sinistra serie N con selettore di portata, attacco maschio e cappuccio di protezione.
- Co-axial left thermostatic valve N-series with flow rate selector, male connection and protection cap.
- Robinet thermostatisable coaxial gauche série N avec sélecteur de débit, embout mâle et capuchon de protection.
- Koaxiales Thermostatventil links Serie N mit Durchfluss-Wählschalter, AG Anschluß und Schutzkappe.
- Válvula termostattizable coaxial izquierda serie N con selector de flujo, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500519R	EUROK x 3/8" M	16,12 €	BC	10 / 80
500519	EUROK x 1/2" M	15,83 €	BC	10 / 80
500519RCR	EUROK x 3/8" M O-ring	16,56 €	BC	10 / 80
500519RC	EUROK x 1/2" M O-ring	16,33 €	BC	10 / 80

■ VCS 2166 N SXT



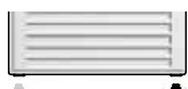
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- Valvola termostattizzabile coassiale sinistra serie N con selettore di portata, attacco maschio e testa manuale.
- Co-axial left thermostatic valve N-series with flow rate selector, male connection and manual head.
- Robinet thermostatisable coaxial gauche série N avec sélecteur de débit, embout mâle et tête manuelle.
- Koaxiales Thermostatventil links Serie N mit Durchfluss-Wählschalter, AG Anschluß und manueller Hebel.
- Válvula termostattizable coaxial izquierda serie N con selector de flujo, conexión macho y cabeza manual.

Code	Size	Price	Class	Packaging
500519TR	EUROK x 3/8" M	17,33 €	BC	10 / 80
500519T	EUROK x 1/2" M	17,03 €	BC	10 / 80
500519TRCR	EUROK x 3/8" M O-ring	17,77 €	BC	10 / 80
500519TRC	EUROK x 1/2" M O-ring	17,54 €	BC	10 / 80

■ VCD 2166 N DX



SINISTRA  
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DERECHA

- Valvola termostattizzabile coassiale destra serie N con selettore di portata, attacco maschio e cappuccio di protezione.
- Co-axial right thermostatic valve N-series with flow rate selector, male connection and protection cap.
- Robinet thermostatisable coaxial droit série N avec sélecteur de débit, embout mâle et capuchon de protection.
- Koaxiales Thermostatventil rechts Serie N mit Durchfluss-Wählschalter, AG Anschluß und Schutzkappe.
- Válvula termostattizable coaxial derecha serie N con selector de flujo, conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
500431R	EUROK x 3/8" M	16,12 €	BC	10 / 80
500431	EUROK x 1/2" M	15,83 €	BC	10 / 80
500431RCR	EUROK x 3/8" M O-ring	16,56 €	BC	10 / 80
500431RC	EUROK x 1/2" M O-ring	16,33 €	BC	10 / 80

■ VCD 2166 N DXT



SINISTRA  
LEFT  
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DERECHA

- Valvola termostattizzabile coassiale destra serie N con selettore di portata, attacco maschio e testa manuale.
- Co-axial right thermostatic valve N-series with flow rate selector, male connection and manual head.
- Robinet thermostatisable coaxial droit série N avec sélecteur de débit, embout mâle et tête manuelle.
- Koaxiales Thermostatventil rechts Serie N mit Durchfluss-Wählschalter, AG Anschluß und manueller Hebel.
- Válvula termostattizable coaxial derecha serie N con selector de flujo, conexión macho y cabeza manual.

Code	Size	Price	Class	Packaging
500431TR	EUROK x 3/8" M	17,33 €	BC	10 / 80
500431T	EUROK x 1/2" M	17,03 €	BC	10 / 80
500431TRCR	EUROK x 3/8" M O-ring	17,77 €	BC	10 / 80
500431TRC	EUROK x 1/2" M O-ring	17,54 €	BC	10 / 80



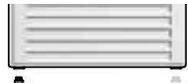
- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

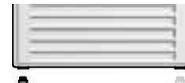
**VCS 2162 N SX**


SINISTRA  
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RECHTS  
DERECHA

- Valvola termostattizzabile coassiale sinistra serie N con selettore di portata, attacco femmina e cappuccio di protezione.
- Co-axial left thermostatic valve N-series with flow rate selector, female connection and protection cap.
- Robinet thermostatisable coaxial gauche série N avec sélecteur de débit, embout femelle et capuchon de protection.
- Koaxiales Thermostatventil links Serie N mit Durchfluss-Wählschalter, IG Anschluß und Schutzkappe.
- Válvula termostatizable coaxial izquierda serie N con selector de flujo, conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
506208SX	3/8" F x 3/8" M	15,83 €	BC	10 / 80
500547	1/2" F x 1/2" M	15,83 €	BC	10 / 80
506208SXRC	3/8" F x 3/8" M O-ring	16,83 €	BC	10 / 80
500547RC	1/2" F x 1/2" M O-ring	16,33 €	BC	10 / 80

**VCS 2162 N SXT**


SINISTRA  
LEFT  
GAUCHE  
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IZQUIERDA

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RECHTS  
DERECHA

- Valvola termostattizzabile coassiale sinistra serie N con selettore di portata, attacco femmina e testa manuale.
- Co-axial left thermostatic valve N-series with flow rate selector, female connection and manual head.
- Robinet thermostatisable coaxial gauche série N avec sélecteur de débit, embout femelle et tête manuelle.
- Koaxiales Thermostatventil links Serie N mit Durchfluss-Wählschalter, IG Anschluß und manueller Hebel.
- Válvula termostatizable coaxial izquierda serie N con selector de flujo, conexión hembra y cabeza manual.

Code	Size	Price	Class	Packaging
506208SXT	3/8" F x 3/8" M	17,03 €	BC	10 / 80
500547T	1/2" F x 1/2" M	17,03 €	BC	10 / 80
506208SXTRC	3/8" F x 3/8" M O-ring	18,04 €	BC	10 / 80
500547TRC	1/2" F x 1/2" M O-ring	17,54 €	BC	10 / 80

**VCD 2162 N DX**


SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
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DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale destra serie N con selettore di portata, attacco femmina e cappuccio di protezione.
- Co-axial right thermostatic valve N-series with flow rate selector, female connection and protection cap.
- Robinet thermostatisable coaxial droit série N avec sélecteur de débit, embout femelle et capuchon de protection.
- Koaxiales Thermostatventil rechts Serie N mit Durchfluss-Wählschalter, IG Anschluß und Schutzkappe.
- Válvula termostatizable coaxial derecha serie N con selector de flujo, conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
506208DX	3/8" F x 3/8" M	15,83 €	BC	10 / 80
500546	1/2" F x 1/2" M	15,83 €	BC	10 / 80
506208DXRC	3/8" F x 3/8" M O-ring	16,83 €	BC	10 / 80
500546RC	1/2" F x 1/2" M O-ring	16,33 €	BC	10 / 80

**VCD 2162 N DXT**


SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

- Valvola termostattizzabile coassiale destra serie N con selettore di portata, attacco femmina e testa manuale.
- Co-axial right thermostatic valve N-series with flow rate selector, female connection and manual head.
- Robinet thermostatisable coaxial droit série N avec sélecteur de débit, embout femelle et tête manuelle.
- Koaxiales Thermostatventil rechts Serie N mit Durchfluss-Wählschalter, IG Anschluß und manueller Hebel.
- Válvula termostatizable coaxial derecha serie N con selector de flujo, conexión hembra y cabeza manual.

Code	Size	Price	Class	Packaging
506208DXT	3/8" F x 3/8" M	17,03 €	BC	10 / 80
500546T	1/2" F x 1/2" M	17,03 €	BC	10 / 80
506208DXTRC	3/8" F x 3/8" M O-ring	18,04 €	BC	10 / 80
500546TRC	1/2" F x 1/2" M O-ring	17,54 €	BC	10 / 80

■ VD 2127 N



- Valvola termostattizzabile diritta serie N con selettore di portata, cappuccio di protezione e attacchi maschio senza bocchettone.
- Straight thermostatic valve N-series with flow rate selector, protection cap and male connections without fitting.
- Robinet thermostatisable droit série N avec sélecteur de débit, capuchon de protection et embouts mâle sans goulotte.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, Schutzkappe und AG Anschlüsse ohne Stutzen.
- Válvula termostatzabile recta serie N con selector de flujo, capuchón de protección y conexiones macho sin racor.

Code	Size	Price	Class	Packaging
500891	EUROK x EUROK	9,84 €	BC	10 / 80

■ VD 2127 NT



- Valvola termostattizzabile diritta serie N con selettore di portata, testa manuale e attacchi maschio senza bocchettone.
- Straight thermostatic valve N-series with flow rate selector, manual head and male connections without fitting.
- Robinet thermostatisable droit série N avec sélecteur de débit, tête manuelle et embouts mâle sans goulotte.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, manueller Hebel und AG Anschlüsse ohne Stutzen.
- Válvula termostatzabile recta serie N con selector de flujo, cabeza manual y conexiones macho sin racor.

Code	Size	Price	Class	Packaging
500891T	EUROK x EUROK	11,05 €	BC	10 / 80

■ VD 2115 N



- Valvola termostattizzabile diritta serie N con selettore di portata, attacco maschio, bocchettone ad angolo e cappuccio di protezione.
- Straight thermostatic valve N-series with flow rate selector, male connection, angle fitting and protection cap.
- Robinet thermostatisable droit série N avec sélecteur de débit, embout mâle, goulotte à angle et capuchon de protection.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, AG Anschluß, Winkel-Stutzen und Schutzkappe.
- Válvula termostatzabile recta serie N con selector de flujo, conexión macho, racor en ángulo y capuchón de protección.

Code	Size	Price	Class	Packaging
500497	EUROK x 1/2" M	15,05 €	BC	10 / 80

■ VD 2111 N



- Valvola termostattizzabile diritta serie N con selettore di portata, attacco femmina, bocchettone ad angolo e cappuccio di protezione.
- Straight thermostatic valve N-series with flow rate selector, female connection, angle fitting and protection cap.
- Robinet thermostatisable droit série N avec sélecteur de débit, embout femelle, goulotte à angle et capuchon de protection.
- Durchgangs-Thermostatventil Serie N mit Durchfluss-Wählschalter, IG Anschluß, Winkel-Stutzen und Schutzkappe.
- Válvula termostatzabile recta serie N con selector de flujo, conexión hembra, racor en ángulo y capuchón de protección.

Code	Size	Price	Class	Packaging
500480	1/2" F x 1/2" M	15,26 €	BC	10 / 80



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

# MANUAL VALVES

Manual valves are radiator isolation devices with manual operation only. The DRM series also performs double micrometric adjustment of the opening setting, remembering it in case of subsequent shut-offs. Both families of manual valves are available in all figures, with female pipe fittings (DN10-15-20 for iron pipe) or male EUROK fittings, while the radiator fitting can be a standard union with a tapered seal or a soft seal union including O-ring. The respective versions are available with reduced 3/8" thread (for EUROK valves).

In addition to the inlet valve to the radiator, it is advisable to install a lockshield (see appropriate section) at the outlet with shut-off and regulation functions. IVAR lockshields are available in a standard version (300 series) with the same centre-to-centre distance as the corresponding inlet valve. The piping and radiator fittings are similar to those found on the valves.

## Materials

Body: nickel-plated brass CW617N

Seals and O-rings: peroxide EPDM

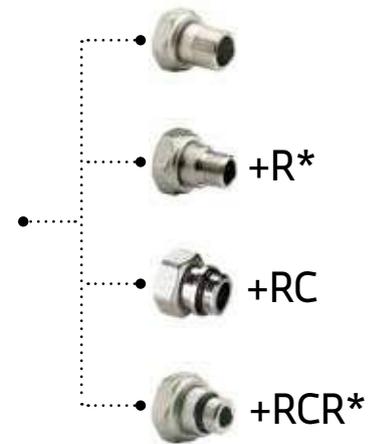
## Technical specifications

Max. fluid temperature inside valve: 120 °C

Maximum operating pressure: 10 bar

## VERSIONS EXAMPLE

	501567
	501567
 +R	501567R
 +RC	501567RC
 +RCR	501567RCR



\* Reduced fitting 3/8" M available only for valves with EUROK connection.

■ VS 206



- Valvola manuale a squadra con attacco maschio.
- Angle manual valve with male connection.
- Robinet manuel équerre avec embout mâle.
- Eck-Handbetätigungsventil mit AG Anschluß.
- Válvula manual de escuadra con conexión macho.

Code	Size	Price	Class	Packaging
501567R	EUROK x 3/8" M	8,78 €	CA	8 / 64
501567	EUROK x 1/2" M	8,49 €	CA	8 / 64
501567RCR	EUROK x 3/8" M O-ring	9,21 €	CA	8 / 64
501567RC	EUROK x 1/2" M O-ring	8,98 €	CA	8 / 64

■ VS 202



- Valvola manuale a squadra con attacco femmina.
- Angle manual valve with female connection.
- Robinet manuel équerre avec embout femelle.
- Eck-Handbetätigungsventil mit IG Anschluß.
- Válvula manual de escuadra con conexión hembra.

Code	Size	Price	Class	Packaging
501456	3/8" F x 3/8" M	8,16 €	CA	8 / 64
501457	1/2" F x 1/2" M	8,55 €	CA	8 / 64
501458	3/4" F x 3/4" M	12,10 €	CA	8 / 64
501456RC	3/8" F x 3/8" M O-ring	9,15 €	CA	8 / 64
501457RC	1/2" F x 1/2" M O-ring	9,04 €	CA	8 / 64
501458RC	3/4" F x 3/4" M O-ring	12,90 €	CA	8 / 64

■ VD 205



- Valvola manuale diritta con attacco maschio.
- Straight manual valve with male connection.
- Robinet manuel droit avec embout mâle.
- Durchgangs-Handbetätigungsventil mit AG Anschluß.
- Válvula manual recta con conexión macho.

Code	Size	Price	Class	Packaging
501459R	EUROK x 3/8" M	9,17 €	CA	8 / 64
501459	EUROK x 1/2" M	8,88 €	CA	8 / 64
501459RCR	EUROK x 3/8" M O-ring	9,60 €	CA	8 / 64
501459RC	EUROK x 1/2" M O-ring	9,37 €	CA	8 / 64

■ VD 201



- Valvola manuale diritta con attacco femmina.
- Straight manual valve with female connection.
- Robinet manuel droit avec embout femelle.
- Durchgangs-Handbetätigungsventil mit IG Anschluß.
- Válvula manual recta con conexión hembra.

Code	Size	Price	Class	Packaging
501451	3/8" F x 3/8" M	8,21 €	CA	8 / 64
501452	1/2" F x 1/2" M	8,98 €	CA	8 / 64
501453	3/4" F x 3/4" M	12,61 €	CA	8 / 64
501451RC	3/8" F x 3/8" M O-ring	9,20 €	CA	8 / 64
501452RC	1/2" F x 1/2" M O-ring	9,48 €	CA	8 / 64
501453RC	3/4" F x 3/4" M O-ring	13,40 €	CA	8 / 64

■ VCR 236



- Valvola manuale a corpo reverso con attacco maschio.
- Reverse manual valve with male connection.
- Robinet manuel à corps renversé avec embout mâle.
- Revershandbetätigungsventil mit AG Anschluß.
- Válvula manual invertida con conexión macho.

Code	Size	Price	Class	Packaging
501636	EUROK x 1/2" M	10,42 €	CA	8 / 64
501636RC	EUROK x 1/2" M O-ring	10,92 €	CA	8 / 64

■ VCR 232



- Valvola manuale a corpo reverso con attacco femmina.
- Reverse manual valve with female connection.
- Robinet manuel à corps renversé avec embout femelle.
- Revershandbetätigungsventil mit IG Anschluß.
- Válvula manual invertida con conexión hembra.

Code	Size	Price	Class	Packaging
501638	1/2" F x 1/2" M	10,70 €	CA	8 / 64
501638RC	1/2" F x 1/2" M O-ring	11,20 €	CA	8 / 64



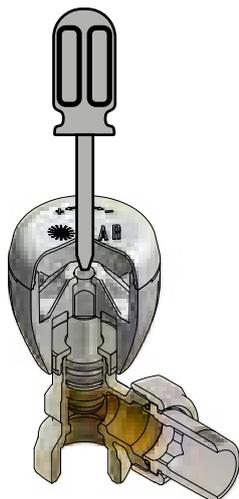
- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497



## DRM series: double micrometric adjustment and position memory.

### ■ VS 006 DRM



- Valvola manuale a squadra serie DRM con attacco maschio.
- Angle manual valve DRM-series with male connection.
- Robinet manuel équerre série DRM avec embout mâle.
- Eck-Handbetätigungsveril Serie DRM mit AG Anschluß.
- Válvula manual de escuadra serie DRM con conexión macho.

Code	Size	Price	Class	Packaging
500048R	EUROK x 3/8" M	9,30 €	CC	8 / 64
500048	EUROK x 1/2" M	9,01 €	CC	8 / 64
500048RCR	EUROK x 3/8" M O-ring	9,73 €	CC	8 / 64
500048RC	EUROK x 1/2" M O-ring	9,51 €	CC	8 / 64

### ■ VS 002 DRM



- Valvola manuale a squadra serie DRM con attacco femmina.
- Angle manual valve DRM-series with female connection.
- Robinet manuel équerre série DRM avec embout femelle.
- Eck-Handbetätigungsveril Serie DRM mit IG Anschluß.
- Válvula manual de escuadra serie DRM con conexión hembra.

Code	Size	Price	Class	Packaging
500565	3/8" F x 3/8" M	8,48 €	CC	8 / 64
500566	1/2" F x 1/2" M	9,01 €	CC	8 / 64
500567	3/4" F x 3/4" M	12,60 €	CC	8 / 64
500565RC	3/8" F x 3/8" M O-ring	9,47 €	CC	8 / 64
500566RC	1/2" F x 1/2" M O-ring	9,51 €	CC	8 / 64
500567RC	3/4" F x 3/4" M O-ring	13,39 €	CC	8 / 64

### ■ VD 005 DRM



- Valvola manuale diritta serie DRM con attacco maschio.
- Straight manual valve DRM-series with male connection.
- Robinet manuel droit série DRM avec embout mâle.
- Durchgangs-Handbetätigungsveril Serie DRM mit AG Anschluß.
- Válvula manual recta serie DRM con conexión macho.

Code	Size	Price	Class	Packaging
500571R	EUROK x 3/8" M	9,61 €	CC	8 / 64
500571	EUROK x 1/2" M	9,32 €	CC	8 / 64
500571RCR	EUROK x 3/8" M O-ring	10,04 €	CC	8 / 64
500571RC	EUROK x 1/2" M O-ring	9,82 €	CC	8 / 64

### ■ VD 001 DRM



- Valvola manuale diritta serie DRM con attacco femmina.
- Straight manual valve DRM-series with female connection.
- Robinet manuel droit série DRM avec embout femelle.
- Durchgangs-Handbetätigungsveril Serie DRM mit IG Anschluß.
- Válvula manual recta serie DRM con conexión hembra.

Code	Size	Price	Class	Packaging
500561	3/8" F x 3/8" M	8,72 €	CC	8 / 64
500562	1/2" F x 1/2" M	9,53 €	CC	8 / 64
500563	3/4" F x 3/4" M	12,72 €	CC	8 / 64
500561RC	3/8" F x 3/8" M O-ring	9,71 €	CC	8 / 64
500562RC	1/2" F x 1/2" M O-ring	10,02 €	CC	8 / 64
500563RC	3/4" F x 3/4" M O-ring	13,51 €	CC	8 / 64

- 
- Raccordo per tubo in rame >> p. 77,82,150,497
  - Fitting for copper pipe >> p. 77,82,150,497
  - Raccord pour tube en cuivre >> p. 77,82,150,497
  - Verschraubung für Kupferrohr >> p. 77,82,150,497
  - Conexión para tubo de cobre >> p. 77,82,150,497

- 
- Raccordo per tubo multistrato >> p. 83,151,247,496
  - Fitting for multilayer pipe >> p. 83,151,247,496
  - Raccord pour tube multicouche >> p. 83,151,247,496
  - Verschraubung für Verbundrohr >> p. 83,151,247,496
  - Conexión para tubo multicapa >> p. 83,151,247,496

- 
- Raccordo per tubo in polietilene >> p. 83,152,247,497
  - Fitting for polyethylene pipe >> p. 83,152,247,497
  - Raccord pour tube en polyéthylène >> p. 83,152,247,497
  - Verschraubung für PEX-Rohr >> p. 83,152,247,497
  - Conexión para tubo de polietileno >> p. 83,152,247,497

# LOCKSHIELDS

Aside from the inlet valve to the radiator, a lockshield should be installed at the outlet with shut-off and regulation functions. IVAR lockshields are offered in the standard version (series 300) or as a twin of the corresponding inlet valve, also in coaxial figures (series 200). In both cases, the pipe connection can be female or male, while the radiator connection is the standard tapered seal, pipe union with O-ring or reduced 3/8" version (for EUROK valves). VK series lockshields are characterised by the female connection to the radiator with the rotating nut which screws onto the specific male adaptor fitting installed beforehand on the radiator.

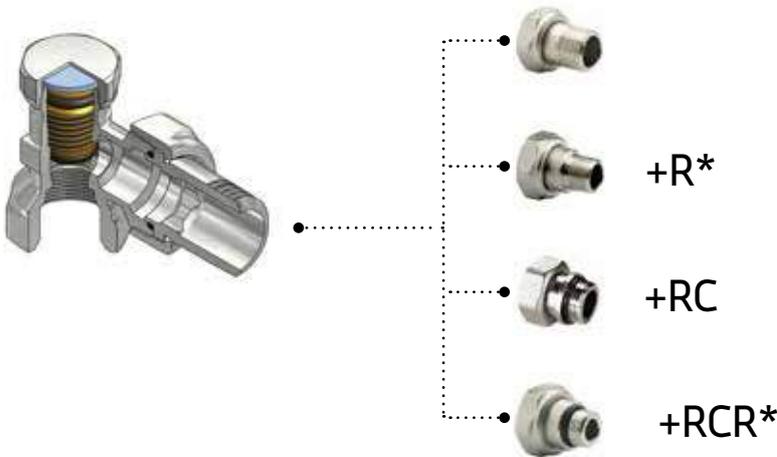
## Materials

Body: nickel-plated brass CW617N  
Gaskets and O-rings: Peroxide EPDM

## Technical characteristics

Max fluid temperature inside valve: 120°C  
Maximum operating pressure: 10 bar

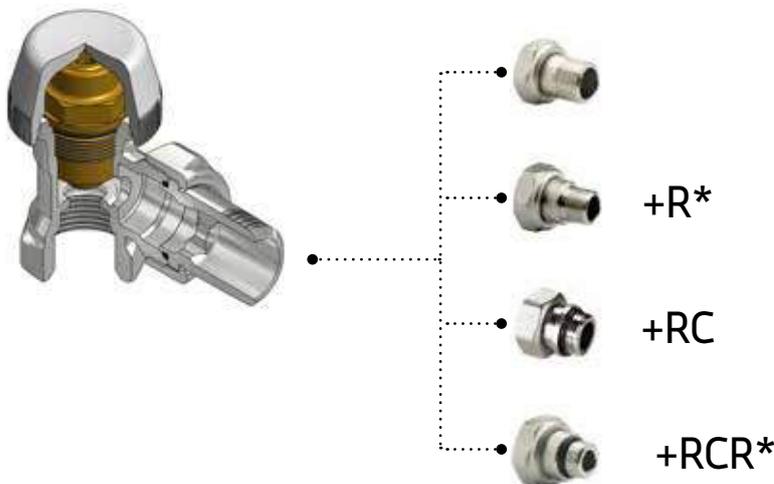
### VERSIONS EXAMPLE - 300 SERIES



\*Reduced fitting 3/8" M available only for valves with EUROK connection.

	<b>500053</b>
	500053
-	
	500053R
+R	
	500053RC
+RC	
	500053RCR
+RCR	

### VERSIONS EXAMPLE - 200 SERIES



\*Reduced fitting 3/8" M available only for valves with EUROK connection.

	<b>520079</b>
	520079
-	
	520079R
+R	
	520079RC
+RC	
	520079RCR
+RCR	

**DS 306**


- Detentore a squadra con attacco maschio.
- Angle lockshield with male connection.
- Coude de réglage avec embout mâle.
- Eck-Rücklaufventil mit AG Anschluß.
- Detentor de escuadra con conexión macho.

Code	Size	Price	Class	Packaging
500053R	EUROK x 3/8" M	7,14 €	DA	10 / 80
500053	EUROK x 1/2" M	6,85 €	DA	10 / 80
500053RCR	EUROK x 3/8" M O-ring	7,57 €	DA	10 / 80
500053RC	EUROK x 1/2" M O-ring	7,34 €	DA	10 / 80

**DS 302**


- Detentore a squadra con attacco femmina.
- Angle lockshield with female connection.
- Coude de réglage avec embout femelle.
- Eck-Rücklaufventil mit IG Anschluß.
- Detentor de escuadra con conexión hembra.

Code	Size	Price	Class	Packaging
500656	3/8" F x 3/8" M	6,39 €	DA	10 / 80
500652	1/2" F x 1/2" M	6,95 €	DA	10 / 80
500655	3/4" F x 3/4" M	10,51 €	DA	10 / 80
500656RC	3/8" F x 3/8" M O-ring	7,37 €	DA	10 / 80
500652RC	1/2" F x 1/2" M O-ring	7,45 €	DA	10 / 80
500655RC	3/4" F x 3/4" M O-ring	11,30 €	DA	10 / 80

**DD 305**


- Detentore diritto con attacco maschio.
- Straight lockshield with male connection.
- Té de réglage avec embout mâle.
- Durchgangs-Rücklaufventil mit AG Anschluß.
- Detentor recto con conexión macho.

Code	Size	Price	Class	Packaging
500751R	EUROK x 3/8" M	7,49 €	DA	10 / 80
500751	EUROK x 1/2" M	7,20 €	DA	10 / 80
500751RCR	EUROK x 3/8" M O-ring	7,92 €	DA	10 / 80
500751RC	EUROK x 1/2" M O-ring	7,69 €	DA	10 / 80

**DD 301**


- Detentore diritto con attacco femmina.
- Straight lockshield with female connection.
- Té de réglage droit avec embout femelle.
- Durchgangs-Rücklaufventil mit IG Anschluß.
- Detentor recto con conexión hembra.

Code	Size	Price	Class	Packaging
500647	3/8" F x 3/8" M	6,44 €	DA	10 / 80
500642	1/2" F x 1/2" M	7,36 €	DA	10 / 80
500644	3/4" F x 3/4" M	10,63 €	DA	10 / 80
500647RC	3/8" F x 3/8" M O-ring	7,43 €	DA	10 / 80
500642RC	1/2" F x 1/2" M O-ring	7,86 €	DA	10 / 80
500644RC	3/4" F x 3/4" M O-ring	11,42 €	DA	10 / 80

**DD 327**


- Detentore diritto con attacchi maschio senza bocchettone.
- Straight lockshield with male connections without fitting.
- Té de réglage avec embouts mâle sans goulotte.
- Durchgangs-Rücklaufventil mit AG Anschlüsse ohne Stutzen.
- Detentor recto con conexiones macho sin racor.

Code	Size	Price	Class	Packaging
500750	EUROK x EUROK	5,02 €	DA	10 / 80

**DS 350**


- Detentore a squadra con tubo in rame cromato saldato.
- Angle lockshield with welder chrome-plated copper pipe.
- Coude de réglage léger avec tube en cuivre chromé soudé.
- Eck-Rücklaufventil mit verchromtem geschweißtem Kupferrohr.
- Detentor de escuadra con tubo de cobre cromado soldado.

Code	Size	Price	Class	Packaging
500557	Ø 15 x Ø 15	13,03 €	DA	70

- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497

- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496

- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

**DS 312**


- Detentore a squadra con attacco a saldare.
- Angle lockshield with welding connection.
- Coude de réglage avec embout à souder.
- Eck-Rücklaufventil mit Lotanschluß.
- Detentor de escuadra con conexión para soldar.

Code	Size	Price	Class	Packaging
500784	Ø15 x 1/2" M	6,54 €	DA	10 / 80

**DD 311**


- Detentore diritto con attacco a saldare.
- Straight lockshield with welding connection.
- Té de réglage avec embout à souder.
- Rücklaufventil Durchgangsform mit Lotanschluß.
- Detentor recto con conexión para soldar.

Code	Size	Price	Class	Packaging
500623	Ø15 x 1/2" M	6,95 €	DA	10 / 80

■ DS 206



- Detentore a squadra serie pesante con attacco maschio.
- Angle lockshield heavy series with male connection.
- Coude de réglage série lourde avec embout mâle.
- Eck-Rücklaufventil schwere Serie mit AG Anschluß.
- Detentor de escuadra serie pesada con conexión macho.

Code	Size	Price	Class	Packaging
520079R	EUROK x 3/8" M	8,97 €	DA	10 / 80
520079	EUROK x 1/2" M	8,67 €	DA	10 / 80
520079RCR	EUROK x 3/8" M O-ring	9,42 €	DA	10 / 80
520079RC	EUROK x 1/2" M O-ring	9,12 €	DA	10 / 80

■ DS 202



- Detentore a squadra serie pesante con attacco femmina.
- Angle lockshield heavy series with female connection.
- Coude de réglage série lourde avec embout femelle.
- Eck-Rücklaufventil schwere Serie mit IG Anschluß.
- Detentor de escuadra serie pesada con conexión hembra.

Code	Size	Price	Class	Packaging
520073	3/8" F x 3/8" M	7,92 €	DA	10 / 80
520074	1/2" F x 1/2" M	8,92 €	DA	10 / 80
520075	3/4" F x 3/4" M	13,94 €	DA	8 / 64
520073RC	3/8" F x 3/8" M O-ring	8,37 €	DA	10 / 80
520074RC	1/2" F x 1/2" M O-ring	9,37 €	DA	10 / 80
520075RC	3/4" F x 3/4" M O-ring	14,43 €	DA	8 / 64

■ DD 205



- Detentore diritto serie pesante con attacco maschio.
- Straight lockshield heavy series with male connection.
- Té de réglage série lourde avec embout mâle.
- Durchgangs-Rücklaufventil schwere Serie mit AG Anschluß.
- Detentor recto serie pesada con conexión macho.

Code	Size	Price	Class	Packaging
520077R	EUROK x 3/8" M	9,90 €	DA	10 / 80
520077	EUROK x 1/2" M	9,60 €	DA	10 / 80
520077RCR	EUROK x 3/8" M O-ring	10,35 €	DA	10 / 80
520077RC	EUROK x 1/2" M O-ring	10,05 €	DA	10 / 80

■ DD 201



- Detentore diritto serie pesante con attacco femmina.
- Straight lockshield heavy series with female connection.
- Té de réglage série lourde avec embout femelle.
- Durchgangs-Rücklaufventil schwere Serie mit IG Anschluß.
- Detentor recto serie pesada con conexión hembra.

Code	Size	Price	Class	Packaging
520070	3/8" F x 3/8" M	8,74 €	DA	10 / 80
520071	1/2" F x 1/2" M	9,82 €	DA	10 / 80
520072	3/4" F x 3/4" M	14,80 €	DA	8 / 64
520070RC	3/8" F x 3/8" M O-ring	9,19 €	DA	10 / 80
520071RC	1/2" F x 1/2" M O-ring	10,27 €	DA	10 / 80
520072RC	3/4" F x 3/4" M O-ring	15,29 €	DA	8 / 64

■ DD 227



- Detentore diritto serie pesante con attacchi maschio senza bocchettone.
- Straight lockshield heavy series with male connections without fitting.
- Té de réglage série lourde avec embouts mâles sans goulotte.
- Durchgangs-Rücklaufventil schwere Serie mit AG Anschlüsse ohne Stutzen.
- Detentor recto serie pesada con conexiones macho sin racor.

Code	Size	Price	Class	Packaging
520086	EUROK x EUROK	7,49 €	DA	10 / 80



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497


**DCS 216 SX**


- Detentore coassiale sinistro serie pesante con attacco maschio.
- Co-axial left lockshield heavy series with male connection.
- Raccord de réglage coaxial gauche série lourde avec embout mâle.
- Koaxiales Rücklaufventil links schwere Serie mit AG Anschluß.
- Detentor coaxial izquierdo serie pesada con conexión macho.



SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

Code	Size	Price	Class	Packaging
520085R	EUROK x 3/8" M	13,19 €	DA	10 / 80
520085	EUROK x 1/2" M	12,90 €	DA	10 / 80
520085RCR	EUROK x 3/8" M O-ring	13,64 €	DA	10 / 80
520085RC	EUROK x 1/2" M O-ring	13,34 €	DA	10 / 80

**DCD 216 DX**


- Detentore coassiale destro serie pesante con attacco maschio.
- Co-axial right lockshield heavy series with male connection.
- Raccord de réglage coaxial droit série lourde avec embout mâle.
- Koaxiales Rücklaufventil rechts schwere Serie mit AG Anschluß.
- Detentor coaxial derecho serie pesada con conexión macho.



SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

Code	Size	Price	Class	Packaging
520084R	EUROK x 3/8" M	13,19 €	DA	10 / 80
520084	EUROK x 1/2" M	12,90 €	DA	10 / 80
520084RCR	EUROK x 3/8" M O-ring	13,64 €	DA	10 / 80
520084RC	EUROK x 1/2" M O-ring	13,34 €	DA	10 / 80



- Raccordo per tubo in rame >>> p. 77,82,150,497
- Fitting for copper pipe >>> p. 77,82,150,497
- Raccord pour tube en cuivre >>> p. 77,82,150,497
- Verschraubung für Kupferrohr >>> p. 77,82,150,497
- Conexión para tubo de cobre >>> p. 77,82,150,497



- Raccordo per tubo multistrato >>> p. 83,151,247,496
- Fitting for multilayer pipe >>> p. 83,151,247,496
- Raccord pour tube multicouche >>> p. 83,151,247,496
- Verschraubung für Verbundrohr >>> p. 83,151,247,496
- Conexión para tubo multicapa >>> p. 83,151,247,496



- Raccordo per tubo in polietilene >>> p. 83,152,247,497
- Fitting for polyethylene pipe >>> p. 83,152,247,497
- Raccord pour tube en polyéthylène >>> p. 83,152,247,497
- Verschraubung für PEX-Rohr >>> p. 83,152,247,497
- Conexión para tubo de polietileno >>> p. 83,152,247,497

**DCS 212 SX**


- Detentore coassiale sinistro serie pesante con attacco femmina.
- Co-axial left lockshield heavy series with female connection.
- Raccord de réglage coaxial gauche série lourde avec embout femelle.
- Koaxiales Rücklaufventil links schwere Serie mit IG Anschluß.
- Detentor coaxial izquierdo serie pesada con conexión hembra.



SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

Code	Size	Price	Class	Packaging
520111	3/8" F x 3/8" M	12,94 €	DA	10 / 80
520081	1/2" F x 1/2" M	12,94 €	DA	10 / 80
520111RC	3/8" F x 3/8" M O-ring	13,39 €	DA	10 / 80
520081RC	1/2" F x 1/2" M O-ring	13,39 €	DA	10 / 80

**DCD 212 DX**


- Detentore coassiale destro serie pesante con attacco femmina.
- Co-axial right lockshield heavy series with female connection.
- Raccord de réglage coaxial droit série lourde avec embout femelle.
- Koaxiales Rücklaufventil rechts schwere Serie mit IG Anschluß.
- Detentor coaxial derecho serie pesada con conexión hembra.



SINISTRA  
LEFT  
GAUCHE  
LINKS  
IZQUIERDA

DESTRA  
RIGHT  
DROIT  
RECHTS  
DERECHA

Code	Size	Price	Class	Packaging
520110	3/8" F x 3/8" M	12,94 €	DA	10 / 80
520080	1/2" F x 1/2" M	12,94 €	DA	10 / 80
520110RC	3/8" F x 3/8" M O-ring	13,39 €	DA	10 / 80
520080RC	1/2" F x 1/2" M O-ring	13,39 €	DA	10 / 80

■ DS 336



- Detentore a squadra serie VK con attacco maschio.
- Angle lockshield VK series with male connection.
- Coude de réglage série VK avec embout mâle.
- Eck-Rücklaufventil VK Serie mit AG Anschluß.
- Detentor de escuadra serie VK con conexión macho.

Code	Size	Price	Class	Packaging
500598	EUROK x 3/4" EUROK swivel	6,19 €	DA	10 / 80

■ DD 335



- Detentore diritto serie VK con attacco maschio.
- Straight lockshield VK series with male connection.
- Té de réglage série VK avec embout mâle.
- Durchgangs-Rücklaufventil VK Serie mit AG Anschluß.
- Detentor recto serie VK con conexión macho.

Code	Size	Price	Class	Packaging
500597	EUROK x 3/4" EUROK swivel	6,43 €	DA	10 / 80



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

■ DD 331



- Detentore diritto serie VK con attacco femmina.
- Straight lockshield VK series with female connection.
- Té de réglage série VK avec embout femelle.
- Durchgangs-Rücklaufventil VK Serie mit IG Anschluß.
- Detentor recto serie VK con conexión hembra.

Code	Size	Price	Class	Packaging
500979	1/2" F x 3/4" EUROK swivel	6,56 €	DA	10 / 80

■ AVK 01



- Adattatore per serie OPTIMA, detentori serie VK e valvole H.
- Adapter for OPTIMA series, VK series lockshields and H valves.
- Adaptateur pour série OPTIMA, coudes et té de réglage série VK et pièces H.
- Adapter für Serie OPTIMA, Absperrungen der Serie VK und H-Ventile.
- Adaptador para serie OPTIMA, detentores serie VK y válvulas H

Code	Size	Color	Price	Class	Packaging
500770	EUROK x 1/2" M O-ring	■	1,49 €	EC	80 / 640

# BASIC SERIES VALVES

Thermostatic and manual valves series "Basic" provides IVAR quality in a range of functional basic components. Liquid-expansion head T 1500 can be perfectly fitted to the valves of "Basic" series, or with any other IVAR valve suitable to thermostatic command. "Basic" product line is completed by valves suitable to thermostatic or manual control, and lockshield valves. All valves are available in angled pattern, with 1/2" or M24x1,5-male and 3/8"- or 1/2"-female pipe connection. Radiator connection can be either standard tapered seal or union with o-ring.

## Materials

Valve body: brass CW617N  
Gaskets and O-rings: Peroxide EPDM  
Thermostatic valves insert: PPA +60% heat stabilized FV  
Thermostatic head knob: ABS (RAL 9003)  
Head thermostat: liquid expansion

## Technical characteristics

Max fluid temperature inside valve: 100°C  
Maximum operating pressure: 10 bar  
Max valve differential pressure with thermostatic head installed: 0.25 bar  
Response time Z: < 40 min

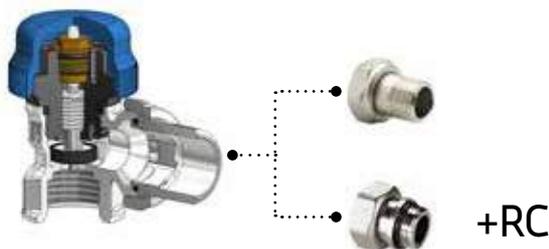
## T 1500



- Testa termostatica con comando e sensore a espansione di liquido incorporati.
- Thermostatic head with incorporated command and liquid expansion sensor.
- Tête thermostatique avec commande et senseur à expansion de liquide incorporés.
- Thermostat-Kopf mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler.
- Cabeza termostática con mando y sensor de expansión de líquido incorporados.

Code	Size	Z	Range	Color	Price	Class	Packaging
502841	M30 x 1,5	< 40 min	6,5-28 °C	□	11,19 €	AA	16 / 128

## THERMOSTATIC VALVES - VERSIONS EXAMPLE



<b>510220</b>	510220	<b>510220RC</b>

## VS 1104



- Valvola termostattizzabile a squadra serie BASIC con attacco maschio e cappuccio di protezione.
- Angle thermostatic valve BASIC series with male connection and protection cap.
- Robinet thermostatisable équerre série BASIC avec embout mâle et capuchon de protection.
- Eck-Thermostatventil Serie BASIC mit AG Anschluß und Schutzkappe.
- Válvula de escuadra termostattizable serie BASIC con conexión macho y capuchón de protección.

Code	Size	Price	Class	Packaging
510226	1/2" M x 3/8" M	8,55 €	BA	10 / 80
510223	M24x1,5 x 3/8" M	8,44 €	BA	10 / 80
510220	1/2" M x 1/2" M	8,60 €	BA	10 / 80
510213	M24x1,5 x 1/2" M	8,50 €	BA	10 / 80
510226RC	1/2" M x 3/8" M O-ring	8,65 €	BA	10 / 80
510223RC	M24x1,5 x 3/8" M O-ring	8,56 €	BA	10 / 80
510220RC	1/2" M x 1/2" M O-ring	9,05 €	BA	10 / 80
510213RC	M24x1,5 x 1/2" M O-ring	8,96 €	BA	10 / 80

## VS 1102



- Valvola termostattizzabile a squadra serie BASIC con attacco femmina e cappuccio di protezione.
- Angle thermostatic valve BASIC series with female connection and protection cap.
- Robinet thermostatisable équerre série BASIC avec embout femelle et capuchon de protection.
- Eck-Thermostatventil Serie BASIC mit IG Anschluß und Schutzkappe.
- Válvula de escuadra termostattizable serie BASIC con conexión hembra y capuchón de protección.

Code	Size	Price	Class	Packaging
510211	3/8" F x 3/8" M	8,59 €	BA	10 / 80
510212	1/2" F x 1/2" M	8,77 €	BA	10 / 80
510211RC	3/8" F x 3/8" M O-ring	8,70 €	BA	10 / 80
510212RC	1/2" F x 1/2" M O-ring	9,22 €	BA	10 / 80



- Raccordo per tubo in rame >> p. 66,499
- Fitting for copper pipe >> p. 66,499
- Raccord pour tube en cuivre >> p. 66,499
- Verschraubung für Kupferrohr >> p. 66,499
- Conexión para tubo de cobre >> p. 66,499

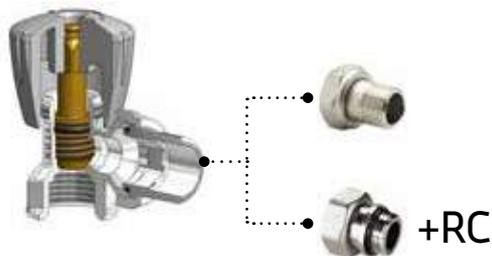


- Raccordo per tubo multistrato >> p. 66,499
- Fitting for multilayer pipe >> p. 66,499
- Raccord pour tube multicouche >> p. 66,499
- Verschraubung für Verbundrohr >> p. 66,499
- Conexión para tubo multicapa >> p. 66,499



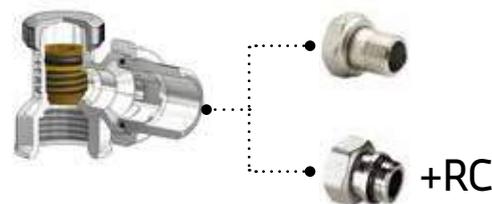
- Raccordo per tubo in polietilene >> p. 66,499
- Fitting for polyethylene pipe >> p. 66,499
- Raccord pour tube en polyéthylène >> p. 66,499
- Verschraubung für PEX-Rohr >> p. 66,499
- Conexión para tubo de polietileno >> p. 66,499

**MANUAL VALVES - VERSIONS EXAMPLE**



<b>510221</b>	-	<b>+RC</b>
	510221	510221RC

**LOCKSHIELD VALVES - VERSIONS EXAMPLE**



<b>510222</b>	-	<b>+RC</b>
	510222	510222RC

**VS 104**



- Valvola manuale a squadra serie BASIC con attacco maschio.
- Angle manual valve BASIC series with male connection.
- Robinet manuel équerre série BASIC avec embout mâle.
- Eck-Handbetätigungsverventil Serie BASIC mit AG Anschluß.
- Válvula manual de escuadra serie BASIC con conexión macho.

Code	Size	Price	Class	Packaging
510227	1/2" M x 3/8" M	7,49 €	CA	10 / 80
510224	M24x1,5 x 3/8" M	7,60 €	CA	10 / 80
510221	1/2" M x 1/2" M	7,53 €	CA	10 / 80
510216	M24x1,5 x 1/2" M	7,64 €	CA	10 / 80
510227RC	1/2" M x 3/8" M O-ring	7,60 €	CA	10 / 80
510224RC	M24x1,5 x 3/8" M O-ring	7,71 €	CA	10 / 80
510221RC	1/2" M x 1/2" M O-ring	7,98 €	CA	10 / 80
510216RC	M24x1,5 x 1/2" M O-ring	8,10 €	CA	10 / 80

**DS 404**



- Detentore a squadra serie BASIC con attacco maschio.
- Angle lockshield BASIC series with male connection.
- Coude de réglage série BASIC avec embout mâle.
- Eck-Rücklaufventil Serie BASIC mit AG Anschluß.
- Detentor de escuadra serie BASIC con conexión macho.

Code	Size	Price	Class	Packaging
510228	1/2" M x 3/8" M	5,97 €	DA	10 / 80
510225	M24x1,5 x 3/8" M	5,97 €	DA	10 / 80
510222	1/2" M x 1/2" M	5,97 €	DA	10 / 80
510219	M24x1,5 x 1/2" M	5,97 €	DA	10 / 80
510228RC	1/2" M x 3/8" M O-ring	6,09 €	DA	10 / 80
510225RC	M24x1,5 x 3/8" M O-ring	6,09 €	DA	10 / 80
510222RC	1/2" M x 1/2" M O-ring	6,43 €	DA	10 / 80
510219RC	M24x1,5 x 1/2" M O-ring	6,43 €	DA	10 / 80

- Raccordo per tubo in rame >> p. 66,499
- Fitting for copper pipe >> p. 66,499
- Raccord pour tube en cuivre >> p. 66,499
- Verschraubung für Kupferrohr >> p. 66,499
- Conexión para tubo de cobre >> p. 66,499

- Raccordo per tubo multistrato >> p. 66,499
- Fitting for multilayer pipe >> p. 66,499
- Raccord pour tube multicouche >> p. 66,499
- Verschraubung für Verbundrohr >> p. 66,499
- Conexión para tubo multicapa >> p. 66,499

- Raccordo per tubo in polietilene >> p. 66,499
- Fitting for polyethylene pipe >> p. 66,499
- Raccord pour tube en polyéthylène >> p. 66,499
- Verschraubung für PEX-Rohr >> p. 66,499
- Conexión para tubo de polietileno >> p. 66,499

**VS 102**



- Valvola manuale a squadra serie BASIC con attacco femmina.
- Angle manual valve BASIC series with female connection.
- Robinet manuel équerre série BASIC avec embout femelle.
- Eck-Handbetätigungsverventil Serie BASIC mit IG Anschluß.
- Válvula manual de escuadra serie BASIC con conexión hembra.

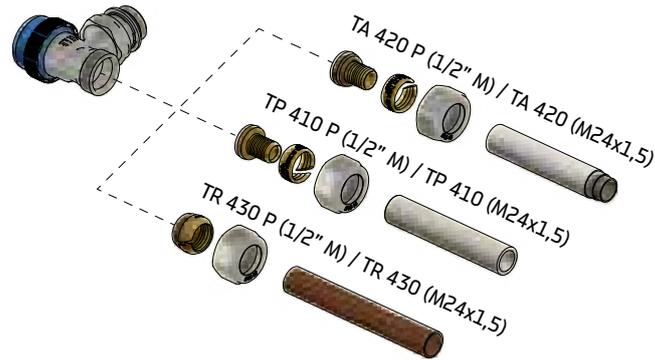
Code	Size	Price	Class	Packaging
510214	3/8" F x 3/8" M	7,36 €	CA	10 / 80
510215	1/2" F x 1/2" M	7,64 €	CA	10 / 80
510214RC	3/8" F x 3/8" M O-ring	7,48 €	CA	10 / 80
510215RC	1/2" F x 1/2" M O-ring	8,10 €	CA	10 / 80

**DS 402**



- Detentore a squadra serie BASIC con attacco femmina.
- Angle lockshield BASIC series with female connection.
- Coude de réglage série BASIC avec embout femelle.
- Eck-Rücklaufventil Serie BASIC mit IG Anschluß.
- Detentor de escuadra serie BASIC con conexión hembra.

Code	Size	Price	Class	Packaging
510217	3/8" F x 3/8" M	5,67 €	DA	10 / 80
510218	1/2" F x 1/2" M	6,08 €	DA	10 / 80
510217RC	3/8" F x 3/8" M O-ring	5,78 €	DA	10 / 80
510218RC	1/2" F x 1/2" M O-ring	6,53 €	DA	10 / 80

**Suitable fittings for valves and lockshields BASIC series with 1/2" M and M24x1,5 connections**

**TA 420 P**


- Raccordo 1/2" F per tubo multistrato e in polietilene.
- 1/2" F fitting for multilayer and polyethylene pipe.
- Raccord 1/2" F pour tube multicouches et en polyéthylène.
- Verschraubung 1/2" IG für Verbund- und für Polyäthylen-Rohr.
- Conexión 1/2" F para tubo multicapa y de polietileno.

20 Nm ≤ T ≤ 30 Nm



Code	Size	Color	Price	Class	Packaging
506265	1/2" F x 14/2	■	2,40 €	JA	50 / 400
500759	1/2" F x 16/2	■	2,40 €	JA	40 / 320
506267	1/2" F x 16/2,25	■	2,40 €	JA	50 / 400

**TP 410 P**


- Raccordo 1/2" F per tubo in polietilene.
- 1/2" F fitting for polyethylene pipe.
- Raccord 1/2" F pour tube en polyéthylène.
- Verschraubung 1/2" IG für Polyäthylen-Rohr.
- Conexión 1/2" F para tubo de polietileno.

30 Nm ≤ T ≤ 40 Nm



Code	Size	Color	Price	Class	Packaging
506268	1/2" F x 12/1,1	■	2,40 €	JA	50 / 400
506269	1/2" F x 12/2	■	2,40 €	JA	50 / 400
506272	1/2" F x 15/2,5	■	2,40 €	JA	50 / 400
506273	1/2" F x 16/1,5	■	2,40 €	JA	50 / 400
506275	1/2" F x 16/2,2	■	2,40 €	JA	50 / 400

**TR 430 P**


- Raccordo 1/2" F per tubo rame ed acciaio dolce con bussola in NBR.
- 1/2" F fitting for copper and mild steel pipe with NBR bushing.
- Raccord 1/2" F pour tube en cuivre et en acier doux avec douille en NBR.
- Verschraubung 1/2" IG für Kupferrohre und Weichstahlrohre mit Hülsen aus NBR.
- Conexión 1/2" F para tubo de cobre y acero dulce con buje en NBR.

 45 Nm ≤ T ≤ 55 Nm\*  
 60 Nm ≤ T ≤ 80 Nm\*\*  
 60 Nm ≤ T ≤ 70 Nm\*\*\*


Code	Size	Color	Price	Class	Packaging
506260	1/2" F x 10/1	■	2,04 €	JA	50 / 400
506261	1/2" F x 12/1	■	2,04 €	JA	50 / 400
506262	1/2" F x 14/1	■	2,04 €	JA	50 / 400
506263	1/2" F x 15/1	■	2,25 €	JA	50 / 400
506264	1/2" F x 16/1	■	2,25 €	JA	50 / 400

- T = Coppia max. di serraggio. [\*]Rame ricotto. [\*\*]Rame semiduro. [\*\*\*]Acciaio dolce.
- T = Max. tightening torque. [\*]Soft copper. [\*\*]Semi-hard copper. [\*\*\*]Mild steel.
- T = Couple de serrage max. [\*]Cuivre recuit. [\*\*]Cuivre semi-rigide. [\*\*\*]Acier doux.
- T = Max. Anzugsdrehmoment. [\*]Geglühtes Kupfer. [\*\*]Mittelfestes Kupfer. [\*\*\*]Weichstahl.
- T = Par de apriete max. [\*]Cobre recocido. [\*\*]Cobre semiduro. [\*\*\*]Acero dulce.

TA 420



- Raccordo M24 per tubo multistrato e in polietilene.
- M24 fitting for multilayer and polyethylene pipe.
- Raccord M24 pour tube multicouches et en polyéthylène.
- M24-Verschraubung für Verbund- und für Polyäthylen-Rohr.
- Conexión M24 para tubo multicapa y de polietileno.

20 Nm ≤ T ≤ 30 Nm



Code	Size	Color	Price	Class	Packaging
501040	M24x1,5 x 14/2	■	2,40 €	JA	50 / 400
501028	M24x1,5 x 16/2	■	2,40 €	JA	50 / 400
501025	M24x1,5 x 16/2,2	■	2,40 €	JA	50 / 400
500049	M24x1,5 x 17/2,3	■	2,54 €	JA	50 / 400
501027	M24x1,5 x 18/2	■	2,54 €	JA	50 / 400
506215	M24x1,5 x 20/2	■	3,78 €	JA	40 / 320

TP 410



- Raccordo M24 per tubo in polietilene.
- M24 fitting for polyethylene pipe.
- Raccord M24 pour tube en polyéthylène.
- M24-Verschraubung für Polyäthylen-Rohr.
- Conexión M24 para tubo de polietileno.

30 Nm ≤ T ≤ 40 Nm



Code	Size	Color	Price	Class	Packaging
501056	M24x1,5 x 12/1	■	2,46 €	JA	50 / 400
501032	M24x1,5 x 14/2	■	2,36 €	JA	50 / 400
501022	M24x1,5 x 16/1,5	■	2,28 €	JA	50 / 400
501034	M24x1,5 x 16/2	■	2,23 €	JA	50 / 400
501035	M24x1,5 x 16/2,2	■	2,23 €	JA	50 / 400
501048	M24x1,5 x 17/2	■	2,23 €	JA	50 / 400
501037	M24x1,5 x 18/2	■	2,54 €	JA	50 / 400

TR 430



- Raccordo M24 per tubo rame ed acciaio dolce.
- M24 fitting for copper and mild steel pipe.
- Raccord M24 pour tube en cuivre et en acier doux.
- M24-Verschraubung für Kupferrohre und Weichstahlrohre.
- Conexión M24 para tubo de cobre y acero dulce.

45 Nm ≤ T ≤ 55 Nm\*  
60 Nm ≤ T ≤ 80 Nm\*\*  
60 Nm ≤ T ≤ 70 Nm\*\*\*



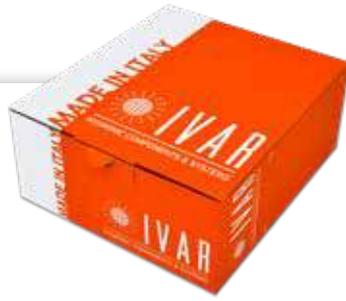
Code	Size	Color	Price	Class	Packaging
500938	M24x1,5 x 10/1	■	2,30 €	JA	50 / 400
500141	M24x1,5 x 12/1	■	1,99 €	JA	50 / 400
500014	M24x1,5 x 14/1	■	1,90 €	JA	50 / 400
500007	M24x1,5 x 15/1	■	1,90 €	JA	50 / 400
500016	M24x1,5 x 16/1	■	1,90 €	JA	50 / 400

- T = Coppia max. di serraggio. [\*Rame ricotto.]\*\*Rame semiduro. [\*\*\*Acciaio dolce.
- T = Max. tightening torque. [\*Soft copper.]\*\*Semi-hard copper. [\*\*\*Mild steel.
- T = Couple de serrage max. [\*Cuivre recuit.]\*\*Cuivre semi-rigide. [\*\*\*Acier doux.
- T = Max. Anzugsdrehmoment. [\*Geglühtes Kupfer.]\*\*Mittelfestes Kupfer. [\*\*\*Weichstahl.
- T = Par de apriete max. [\*Cobre recocado.]\*\*Cobre semiduro. [\*\*\*Acero dulce.

# RADIATOR KITS



## STANDARD SERIES



code **+L**

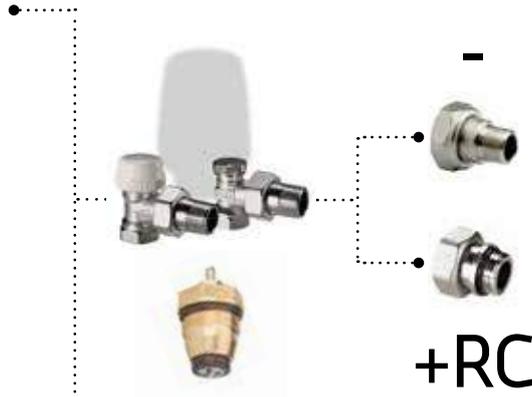


T 5000

code **+B**



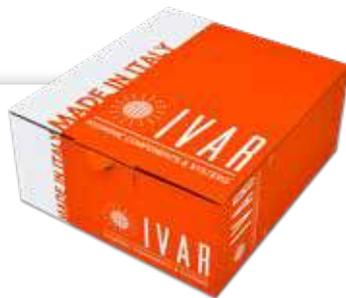
T 1500



### EXAMPLE STANDARD SERIES

 520178S	 B	 L
	520178SB	520178SL
 +RC	520178SBRC	520178SLRC

## N SERIES



code **+L**

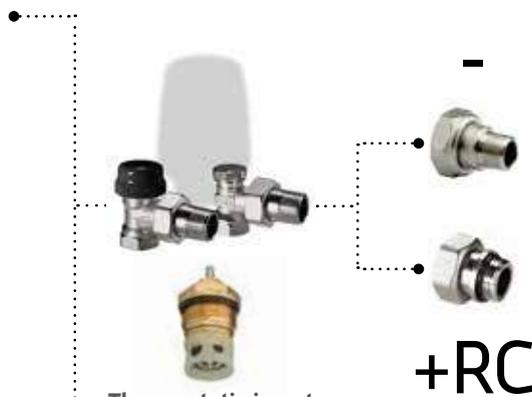


T 5000

code **+B**



T 1500



Thermostatic insert  
with flow rate  
selector  
N SERIES (Kv 0,1-0,6)

### EXAMPLE N SERIES

 520178V	 B	 L
	520178VB	520178VL
 +RC	520178VBRC	520178VLRC

### KS 306



- Kit a squadra standard con attacco maschio.
- Angle kit standard with male connection.
- Kit équerre standard avec embout mâle.
- Eck-Bausatz standard mit AG Anschluß.
- Conjunto de escuadra estándar con conexión macho.

Code	Actuator	Size	Price	Class	Packaging
520188SB	T 1500	EUROK x 3/8" M	28,77 €	BN	1 / 32
520181SB	T 1500	EUROK x 1/2" M	28,19 €	BN	1 / 32
520188SBRC	T 1500	EUROK x 3/8" M O-ring	29,64 €	BN	1 / 32
520181SBRC	T 1500	EUROK x 1/2" M O-ring	29,18 €	BN	1 / 32
520188SL	T 5000	EUROK x 3/8" M	31,57 €	BN	1 / 32
520181SL	T 5000	EUROK x 1/2" M	30,99 €	BN	1 / 32
520188SLRC	T 5000	EUROK x 3/8" M O-ring	32,44 €	BN	1 / 32
520181SLRC	T 5000	EUROK x 1/2" M O-ring	31,98 €	BN	1 / 32

### KD 305



- Kit diritto standard con attacco maschio.
- Straight kit standard with male connection.
- Kit droit standard avec embout mâle.
- Durchgangs-Bausatz standard mit AG Anschluß.
- Conjunto recto estándar con conexión macho.

Code	Actuator	Size	Price	Class	Packaging
520189SB	T 1500	EUROK x 3/8" M	30,03 €	BN	1 / 32
520180SB	T 1500	EUROK x 1/2" M	29,45 €	BN	1 / 32
520189SBRC	T 1500	EUROK x 3/8" M O-ring	30,90 €	BN	1 / 32
520180SBRC	T 1500	EUROK x 1/2" M O-ring	30,44 €	BN	1 / 32
520189SL	T 5000	EUROK x 3/8" M	32,83 €	BN	1 / 32
520180SL	T 5000	EUROK x 1/2" M	32,25 €	BN	1 / 32
520189SLRC	T 5000	EUROK x 3/8" M O-ring	33,70 €	BN	1 / 32
520180SLRC	T 5000	EUROK x 1/2" M O-ring	33,24 €	BN	1 / 32



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

**KS 302**


- **Kit a squadra standard con attacco femmina.**
- *Angle kit standard with female connection*
- **Kit équerre standard avec embout femelle**
- *Eck-Bausatz standard mit IG Anschluß.*
- **Conjunto de escuadra estándar con conexión hembra.**

Code	Actuator	Size	Price	Class	Packaging
520177SB	T 1500	3/8" F x 3/8" M	26,84 €	BN	1 / 32
520178SB	T 1500	1/2" F x 1/2" M	28,53 €	BN	1 / 32
520179SB	T 1500	3/4" F x 3/4" M	37,43 €	BN	1 / 15
520177SBRC	T 1500	3/8" F x 3/8" M O-ring	28,82 €	BN	1 / 32
520178SBRC	T 1500	1/2" F x 1/2" M O-ring	29,53 €	BN	1 / 32
520179SBRC	T 1500	3/4" F x 3/4" M O-ring	39,02 €	BN	1 / 15
520177SL	T 5000	3/8" F x 3/8" M	29,64 €	BN	1 / 32
520178SL	T 5000	1/2" F x 1/2" M	31,33 €	BN	1 / 32
520179SL	T 5000	3/4" F x 3/4" M	40,23 €	BN	1 / 15
520177SLRC	T 5000	3/8" F x 3/8" M O-ring	31,62 €	BN	1 / 32
520178SLRC	T 5000	1/2" F x 1/2" M O-ring	32,33 €	BN	1 / 32
520179SLRC	T 5000	3/4" F x 3/4" M O-ring	41,82 €	BN	1 / 32

**KD 301**


- **Kit diritto standard con attacco femmina.**
- *Straight kit standard with female connection.*
- **Kit droit standard avec embout femelle.**
- *Durchgangs-Bausatz standard mit IG Anschluß.*
- **Conjunto recto estándar con conexión hembra.**

Code	Actuator	Size	Price	Class	Packaging
520174SB	T 1500	3/8" F x 3/8" M	27,92 €	BN	1 / 32
520175SB	T 1500	1/2" F x 1/2" M	29,84 €	BN	1 / 32
520176SB	T 1500	3/4" F x 3/4" M	38,54 €	BN	1 / 15
520174SBRC	T 1500	3/8" F x 3/8" M O-ring	29,92 €	BN	1 / 32
520175SBRC	T 1500	1/2" F x 1/2" M O-ring	30,84 €	BN	1 / 32
520176SBRC	T 1500	3/4" F x 3/4" M O-ring	40,13 €	BN	1 / 15
520174SL	T 5000	3/8" F x 3/8" M	30,72 €	BN	1 / 32
520175SL	T 5000	1/2" F x 1/2" M	32,64 €	BN	1 / 32
520176SL	T 5000	3/4" F x 3/4" M	41,34 €	BN	1 / 15
520174SLRC	T 5000	3/8" F x 3/8" M O-ring	32,72 €	BN	1 / 32
520175SLRC	T 5000	1/2" F x 1/2" M O-ring	33,64 €	BN	1 / 32
520176SLRC	T 5000	3/4" F x 3/4" M O-ring	42,93 €	BN	1 / 32

### KS 306 N



- Kit a squadra serie N con attacco maschio.
- Angle kit N-series with male connection.
- Kit équerre série N avec embout mâle.
- Eck-Bausatz Serie N mit AG Anschluß.
- Conjunto de escuadra serie N con conexión macho.

Code	Actuator	Size	Price	Class	Packaging
520188VB	T 1500	EUROK x 3/8" M	29,81 €	BN	1 / 32
520181VB	T 1500	EUROK x 1/2" M	29,23 €	BN	1 / 32
520188VBRC	T 1500	EUROK x 3/8" M O-ring	30,68 €	BN	1 / 32
520181VBRC	T 1500	EUROK x 1/2" M O-ring	30,22 €	BN	1 / 32
520188VL	T 5000	EUROK x 3/8" M	32,61 €	BN	1 / 32
520181VL	T 5000	EUROK x 1/2" M	32,03 €	BN	1 / 32
520188VLRC	T 5000	EUROK x 3/8" M O-ring	33,48 €	BN	1 / 32
520181VLRC	T 5000	EUROK x 1/2" M O-ring	33,02 €	BN	1 / 32

### KD 305 N



- Kit diritto serie N con attacco maschio.
- Straight kit N-series with male connection.
- Kit droit série N avec embout mâle.
- Durchgangs-Bausatz Serie N mit AG Anschluß.
- Conjunto recto serie N con conexión macho.

Code	Actuator	Size	Price	Class	Packaging
520189VB	T 1500	EUROK x 3/8" M	31,07 €	BN	1 / 32
520180VB	T 1500	EUROK x 1/2" M	30,49 €	BN	1 / 32
520189VBRC	T 1500	EUROK x 3/8" M O-ring	31,94 €	BN	1 / 32
520180VBRC	T 1500	EUROK x 1/2" M O-ring	31,48 €	BN	1 / 32
520189VL	T 5000	EUROK x 3/8" M	33,87 €	BN	1 / 32
520180VL	T 5000	EUROK x 1/2" M	33,29 €	BN	1 / 32
520189VLRC	T 5000	EUROK x 3/8" M O-ring	34,74 €	BN	1 / 32
520180VLRC	T 5000	EUROK x 1/2" M O-ring	34,28 €	BN	1 / 32



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

**KS 302 N**


- **Kit a squadra serie N con attacco femmina.**
- *Angle kit N-series with female connection.*
- **Kit équerre série N avec embout femelle.**
- *Eck-Bausatz Serie N mit IG Anschluss.*
- **Conjunto de escuadra serie N con conexión hembra.**

Code	Actuator	Size	Price	Class	Packaging
520177VB	T 1500	3/8" F x 3/8" M	27,88 €	BN	1 / 32
520178VB	T 1500	1/2" F x 1/2" M	29,57 €	BN	1 / 32
520179VB	T 1500	3/4" F x 3/4" M	38,47 €	BN	1 / 32
520177VBRC	T 1500	3/8" F x 3/8" M O-ring	29,87 €	BN	1 / 32
520178VBRC	T 1500	1/2" F x 1/2" M O-ring	30,57 €	BN	1 / 32
520179VBRC	T 1500	3/4" F x 3/4" M O-ring	40,07 €	BN	1 / 32
520177VL	T 5000	3/8" F x 3/8" M	30,68 €	BN	1 / 32
520178VL	T 5000	1/2" F x 1/2" M	32,37 €	BN	1 / 32
520179VL	T 5000	3/4" F x 3/4" M	41,27 €	BN	1 / 15
520177VLRC	T 5000	3/8" F x 3/8" M O-ring	32,67 €	BN	1 / 32
520178VLRC	T 5000	1/2" F x 1/2" M O-ring	33,37 €	BN	1 / 32
520179VLRC	T 5000	3/4" F x 3/4" M O-ring	42,87 €	BN	1 / 15

**KD 301 N**


- **Kit diritto serie N con attacco femmina.**
- *Straight kit N-series with female connection.*
- **Kit droit série N avec embout femelle.**
- *Durchgangs-Bausatz Serie N mit IG Anschluss.*
- **Conjunto recto serie N con conexión hembra.**

Code	Actuator	Size	Price	Class	Packaging
520174VB	T 1500	3/8" F x 3/8" M	28,97 €	BN	1 / 32
520175VB	T 1500	1/2" F x 1/2" M	30,88 €	BN	1 / 32
520176VB	T 1500	3/4" F x 3/4" M	39,59 €	BN	1 / 32
520174VBRC	T 1500	3/8" F x 3/8" M O-ring	30,96 €	BN	1 / 32
520175VBRC	T 1500	1/2" F x 1/2" M O-ring	31,88 €	BN	1 / 32
520176VBRC	T 1500	3/4" F x 3/4" M O-ring	41,18 €	BN	1 / 32
520174VL	T 5000	3/8" F x 3/8" M	31,77 €	BN	1 / 32
520175VL	T 5000	1/2" F x 1/2" M	33,68 €	BN	1 / 32
520176VL	T 5000	3/4" F x 3/4" M	42,39 €	BN	1 / 15
520174VLRC	T 5000	3/8" F x 3/8" M O-ring	33,76 €	BN	1 / 32
520175VLRC	T 5000	1/2" F x 1/2" M O-ring	34,68 €	BN	1 / 32
520176VLRC	T 5000	3/4" F x 3/4" M O-ring	43,98 €	BN	1 / 32

# H VALVES

Four-port valves are necessary when the inlet and outlet connections of the radiator are located at the same spot. Radiators with built-in taps and fittings use DS/DD series H valves for two pipe plants, or with adjustable bypass for single pipe plants. A thermostatic headwork can be installed on the delivery line (type H and type D, depending on the seat model used by the radiator manufacturer) by screwing it directly onto the radiator inlet.

VS/VD H valves can be adapted to radiant plates, incorporating both the thermostatic valve with flow rate pre-regulation and the lockshield.

All IVAR H valves are available for systems with floor and wall connections.

## Materials

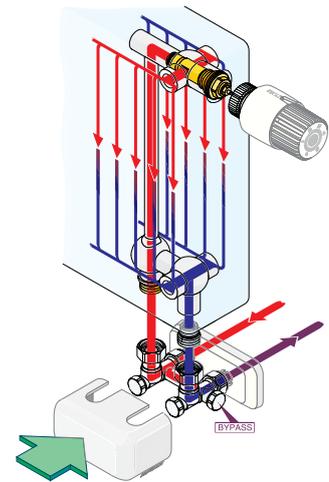
Body: nickel-plated brass CW617N

Gaskets and O-rings: Peroxide EPDM

## Technical characteristics

Max fluid temperature inside valve: 120°C

Maximum operating pressure: 10 bar



### DS 346



- Valvola H con attacco maschio per impianti bitubo con derivazioni a parete.
- H valve with male connection for double pipe systems with wall pipes.
- Pièce H avec embout mâle pour systèmes bitube avec dérivation murales.
- Zweirohr-Hahnblock Eckform mit AG Anschluß.
- Válvula H con conexión macho para sistemas bitubo con derivaciones de pared.

Code	Size	Price	Class	Packaging
500848	EUROK x 3/4" EUROK swivel	14,06 €	EA	6 / 48
500848B	EUROK x 1/2" M O-ring	17,05 €	EA	6 / 48

### DD 345



- Valvola H con attacco maschio per impianti bitubo con derivazioni a pavimento.
- H valve with male connection for double pipe systems with floor pipes.
- Pièce H avec embout mâle pour systèmes bitube avec dérivation au sol.
- Zweirohr-Hahnblock Durchgangsform mit AG Anschluß.
- Válvula H con conexión macho para sistemas bitubo con derivaciones de suelo.

Code	Size	Price	Class	Packaging
500845	EUROK x 3/4" EUROK swivel	14,21 €	EA	6 / 48
500845B	EUROK x 1/2" M O-ring	17,21 €	EA	6 / 48

### DS 356



- Valvola H con attacco maschio per impianti monotubo/bitubo (con bypass regolabile 50-100%) con derivazioni a parete.
- H valve with male connection for single/double pipe systems (with adjustable bypass 50-100%) with wall pipes.
- Pièce H avec embout mâle pour systèmes monotube/bitube (avec bypass réglable 50-100%) avec dérivation murales.
- Ein-/Zweirohr-Hahnblock (mit regelbarer Bypass 50-100%) Eckform mit AG Anschluß.
- Válvula H con conexión macho para sistemas monotubo/bitubo (con bypass ajustable 50-100%) con derivaciones de pared.

Code	Size	Price	Class	Packaging
500323	EUROK x 3/4" EUROK swivel	18,76 €	EA	6 / 48
500323B	EUROK x 1/2" M O-ring	21,76 €	EA	6 / 48

### DD 355



- Valvola H con attacco maschio per impianti monotubo/bitubo (con bypass regolabile 50-100%) con derivazioni a pavimento.
- H valve with male connection for single/double pipe systems (with adjustable bypass 50-100%) with floor pipes.
- Pièce H avec embout mâle pour systèmes monotube/bitube (avec bypass réglable 50-100%) avec dérivation au sol.
- Ein-/Zweirohr-Hahnblock (mit regelbarer Bypass 50-100%) Durchgangsform mit AG Anschluß.
- Válvula H con conexión macho para sistemas monotubo/bitubo (con bypass ajustable 50-100%) con derivaciones de suelo.

Code	Size	Price	Class	Packaging
500317	EUROK x 3/4" EUROK swivel	18,60 €	EA	6 / 48
500317B	EUROK x 1/2" M O-ring	21,60 €	EA	6 / 48

### AVK 01



- Adattatore per serie OPTIMA, detentori serie VK e valvole H.
- Adapter for OPTIMA series, VK series lockshields and H valves.
- Adaptateur pour série OPTIMA, coudes et tés de réglage série VK et pièces H.
- Adapter für Serie OPTIMA, Absperrungen der Serie VK und H-Ventile.
- Adaptador para serie OPTIMA, detentores serie VK y válvulas H

Code	Size	Color	Price	Class	Packaging
500770	EUROK x 1/2" M O-ring	■	1,49 €	EC	80 / 640


**VIT 51**


- Vitone termostatico con selettore di portata per valvola incorporata nel corpo scaldante tipo H.
- Thermostatic headwork with flow rate selector for valve incorporated in the heating element H-type.
- Insert thermostatique avec sélecteur de débit pour vanne incorporée dans le corps chauffant type H.
- Thermostat- Einsatz mit Durchfluss-Wählschalter für in dem Heizkörper eingebaut Ventil Typ H.
- Tornillo termostático con selector de flujo para válvula integrada en el radiador tipo H.

Code	Range	Price	Class	Packaging
500423	KV 0,1 - 0,6 (N SERIES)	7,68 €	EC	200

**VIT 52**


- Vitone termostatico con selettore di portata per valvola incorporata nel corpo scaldante tipo D.
- Thermostatic headwork with flow rate selector for valve incorporated in the heating element D-type.
- Insert thermostatique avec sélecteur de débit pour vanne incorporée dans le corps chauffant type D.
- Thermostat- Einsatz mit Durchfluss-Wählschalter für in dem Heizkörper eingebaut Ventil Typ D.
- Tornillo termostático con selector de flujo para válvula integrada en el radiador tipo D.

Code	Range	Price	Class	Packaging
500424	KV 0,1 - 0,6 (N SERIES)	7,79 €	EC	200

**AVK 02**


- Carter universale per valvole H.
- Universal cover for H valves.
- Carter universel pour pièces H.
- Universalgehäuse für Hahnblocke.
- Tapa universal para válvulas H

Code	Color	Price	Class	Packaging
501217	<input type="checkbox"/>	1,44 €	EC	120



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

### ■ VS 2156



- Valvola H termostattabile serie N con attacco maschio per impianti bitubo con derivazioni a parete.
- H thermostatic valve N-series with male connection for double pipe systems with wall pipes.
- Pièce H thermostatisable série N avec embout mâle pour systèmes bitube avec dérivation murales.
- Zweirohr-H-Thermostatventil Serie N Eckform mit AG Anschluß.
- Válvula H termostattabile serie N con conexión macho para sistemas bitubo con derivaciones de pared.

Code	Size	Price	Class	Packaging
501826	EUROK x 1/2" M O-ring (AVK 01)	28,30 €	BC	6 / 48

### ■ VS 2146



- Valvola H termostattabile serie N con attacco maschio per impianti bitubo con derivazioni a parete.
- H thermostatic valve N-series with male connection for double pipe systems with wall pipes.
- Pièce H thermostatisable série N avec embout mâle pour systèmes bitube avec dérivation murales.
- Zweirohr-H-Thermostatventil Serie N Eckform mit AG Anschluß.
- Válvula H termostattabile serie N con conexión macho para sistemas bitubo con derivaciones de pared.

Code	Size	Price	Class	Packaging
500831	EUROK x 1/2" M O-ring	25,62 €	BC	5 / 40

### ■ VD 2155



- Valvola H termostattabile serie N con attacco maschio per impianti bitubo con derivazioni a pavimento.
- H thermostatic valve N-series with male connection for double pipe systems with floor pipes.
- Pièce H thermostatisable série N avec embout mâle pour systèmes bitube avec dérivation au sol.
- Zweirohr-H-Thermostatventil Serie N Durchgangsform mit AG Anschluß.
- Válvula H termostattabile serie N con conexión macho para sistemas bitubo con derivaciones de suelo.

Code	Size	Price	Class	Packaging
501823	EUROK x 1/2" M O-ring (AVK 01)	26,99 €	BC	6 / 48

### ■ VD 2145



- Valvola H termostattabile serie N con attacco maschio per impianti bitubo con derivazioni a pavimento.
- H thermostatic valve N-series with male connection for double pipe systems with floor pipes.
- Pièce H thermostatisable série N avec embout mâle pour systèmes bitube avec dérivation au sol.
- Zweirohr-H-Thermostatventil Serie N Durchgangsform mit AG Anschluß.
- Válvula H termostattabile serie N con conexión macho para sistemas bitubo con derivaciones de suelo.

Code	Size	Price	Class	Packaging
500823	EUROK x 1/2" M O-ring	24,11 €	BC	6 / 48



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

**■ VS 2156 B**


- Valvola H termostattabile serie N con attacco maschio per impianti monotubo con derivazioni a parete.
- H thermostatic valve N-series with male connection for single pipe systems with wall pipes.
- Pièce H thermostatisable série N avec embout mâle pour systèmes monotube avec dérivations murales.
- Einrohr-H-Thermostatventil Serie N Eckform mit AG Anschluß.
- Válvula H termostatzable serie N con conexión macho para sistemas monotubo con derivaciones de pared.

Code	Size	Price	Class	Packaging
501826B	EUROK x 1/2" M O-ring (AVK 01)	28,30 €	BC	6 / 48

**■ VS 2146 B**


- Valvola H termostattabile serie N con attacco maschio per impianti monotubo con derivazioni a parete.
- H thermostatic valve N-series with male connection for single pipe systems with wall pipes.
- Pièce H thermostatisable série N avec embout mâle pour systèmes monotube avec dérivations murales.
- Einrohr-H-Thermostatventil Serie N Eckform mit AG Anschluß.
- Válvula H termostatzable serie N con conexión macho para sistemas monotubo con derivaciones de pared.

Code	Size	Price	Class	Packaging
500831B	EUROK x 1/2" M O-ring	25,62 €	BC	6 / 48

**■ VD 2155 B**


- Valvola H termostattabile serie N con attacco maschio per impianti monotubo con derivazioni a pavimento.
- H thermostatic valve N-series with male connection for single pipe systems with floor pipes
- Pièce H thermostatisable série N avec embout mâle pour systèmes monotube avec dérivations au sol.
- Einrohr-H-Thermostatventil Serie N Durchgangsform mit AG Anschluß.
- Válvula H termostatzable serie N con conexión macho para sistemas monotubo con derivaciones de suelo.

Code	Size	Price	Class	Packaging
501823B	EUROK x 1/2" M O-ring (AVK 01)	26,99 €	BC	6 / 48

**■ VD 2145 B**


- Valvola H termostattabile serie N con attacco maschio per impianti monotubo con derivazioni a pavimento.
- H thermostatic valve N-series with male connection for single pipe systems with floor pipes
- Pièce H thermostatisable série N avec embout mâle pour systèmes monotube avec dérivations au sol.
- Einrohr-H-Thermostatventil Serie N Durchgangsform mit AG Anschluß.
- Válvula H termostatzable serie N con conexión macho para sistemas monotubo con derivaciones de suelo.

Code	Size	Price	Class	Packaging
500823B	EUROK x 1/2" M O-ring	24,11 €	BC	6 / 48



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497



**DM 1416**


- Distributore a 4 vie con attacco maschio per impianti monotubo (portata 60%) con derivazioni a parete.
- 4-way distributor with male connection for single pipe systems (flow rate 60%) with wall pipes.
- Distributeur à 4 voies avec embout mâle pour systèmes monotube (débit 60%) avec dérivation murales.
- Einrohr 4-Wege-Anschlußgewinde Eckform (Durchfluss 60%) mit AG Anschlüssen.
- Distribuidor de 4 vías con conexión macho para sistemas monotubo (flujo 60%) con derivaciones de pared.

Code	Size	Price	Class	Packaging
500394	EUROK x 1/2" M	17,83 €	FA	8 / 64

**DB 1406**


- Distributore a 4 vie con attacco maschio per impianti bitubo (portata 100%) con derivazioni a parete.
- 4-way distributor with male connection for double pipe systems (flow rate 100%) with wall pipes.
- Distributeur à 4 voies avec embout mâle pour systèmes bitube (débit 100%) avec dérivation murales.
- Zweirohr 4-Wege-Anschlußgewinde Eckform (Durchfluss 100%) mit AG Anschlüssen.
- Distribuidor de 4 vías con conexión macho para sistemas bitubo (flujo 100%) con derivaciones de pared.

Code	Size	Price	Class	Packaging
500395	EUROK x 1/2" M	17,54 €	FA	8 / 64

**DM 1415**


- Distributore a 4 vie con attacco maschio per impianti monotubo (portata 60%) con derivazioni a pavimento.
- 4-way distributor with male connection for single pipe systems (flow rate 60%) with floor pipes.
- Distributeur à 4 voies avec embout mâle pour systèmes monotube (débit 60%) avec dérivation au sol.
- Einrohr 4-Wege-Anschlußgewinde Durchgangsform (Durchfluss 60%) mit AG Anschlüssen.
- Distribuidor de 4 vías con conexión macho para sistemas monotubo (flujo 60%) con derivaciones de suelo.

Code	Size	Price	Class	Packaging
500393	EUROK x 1/2" M	15,39 €	FA	10 / 80

**DB 1405**


- Distributore a 4 vie con attacco maschio per impianti bitubo (portata 100%) con derivazioni a pavimento.
- 4-way distributor with male connection for double pipe systems (flow rate 100%) with floor pipes.
- Distributeur à 4 voies avec embout mâle pour systèmes bitube (débit 100%) avec dérivation au sol.
- Zweirohr 4-Wege-Anschlußgewinde Durchgangsform (Durchfluss 100%) mit AG Anschlüssen.
- Distribuidor de 4 vías con conexión macho para sistemas bitubo (flujo 100%) con derivaciones de suelo.

Code	Size	Price	Class	Packaging
500381	EUROK x 1/2" M	15,22 €	FA	10 / 80

**ADI 01**


- Tubo cromato in acciaio dolce.
- Chrome-plated mild steel pipe.
- Tube chromé en acier doux.
- Verchromtes Weichstahl-Rohr.
- Tubo cromado de acero dulce.

Code	Size	Length	Color	Price	Class	Packaging
550015	Ø 15	1 m	■	9,75 €	HA	80

**TR 4430**


- Raccordo EUROK per tubo rame ed acciaio dolce.
- EUROK fitting for copper and mild steel pipe.
- Raccord EUROK pour tube en cuivre et en acier doux.
- EUROK-Verschraubung für Kupferrohre und Weichstahlrohre.
- Conexión EUROK para tubo de cobre y acero dulce.

45 Nm ≤ T ≤ 55 Nm\*  
60 Nm ≤ T ≤ 80 Nm\*\*  
60 Nm ≤ T ≤ 70 Nm\*\*\*



Code	Size	Color	Price	Class	Packaging
500998	EUROK x 10/1	■	2,51 €	JA	40 / 320
500157	EUROK x 12/1	■	2,05 €	JA	40 / 320
500024	EUROK x 14/1	■	2,05 €	JA	40 / 320
500025	EUROK x 15/1	■	2,05 €	JA	40 / 320
500026	EUROK x 16/1	■	2,05 €	JA	40 / 320

- T = Coppia max. di serraggio. |\*Rame ricotto. |\*\*Rame semiduro. |\*\*\*Acciaio dolce.
- T = Max. tightening torque. |\*Soft copper. |\*\*Semi-hard copper. |\*\*\*Mild steel.
- T = Couple de serrage max. |\*Cuivre recuit. |\*\*Cuivre semi-rigide. |\*\*\*Acier doux.
- T = Max. Anzugsdrehmoment. |\*Geglühtes Kupfer. |\*\*Mittelfestes Kupfer. |\*\*\*Weichstahl.
- T = Par de apriete max. |\*Cobre recocido. |\*\*Cobre semiduro. |\*\*\*Acero dulce.

# SINGLE-PIPE THERMOSTATIC VALVES

One-pipe systems were mainly used in the past. They consist of a single pipe that connects all radiators in a series, as shown in Fig. 1.

In practice, the radiators are not exactly in series, but each radiator takes a fraction of the flow rate of the loop while the rest passes directly from the flow to the return of the radiator through a bypass incorporated in the valve as shown in figure 2.

One-pipe thermostatic valves can be equipped with a manual knob, which can be used to completely isolate the radiator or adjust its supply level from 0% to 100%, with a very limited pressure drop. Equipped with thermostatic head, it can supply the radiator with a flow rate equal to 30% of the total flow rate of the circuit with a  $\Delta = 2K$ . The valve does not permit reverse flow (follow the arrow on the valve body). For correct use of the valve and better circulation of the fluid in the heating unit, it is advisable to extend the probe by fitting it to a pipe with an appropriate diameter, for a total length equal to that of the radiator minus 5-10 cm.

## Materials

Body: nickel-plated brass CW617N

Seals and O-rings: peroxide EPDM

## Technical specifications

Max. fluid temperature inside valve: 100 °C

Maximum operating pressure: 10 bar

Fig. 1

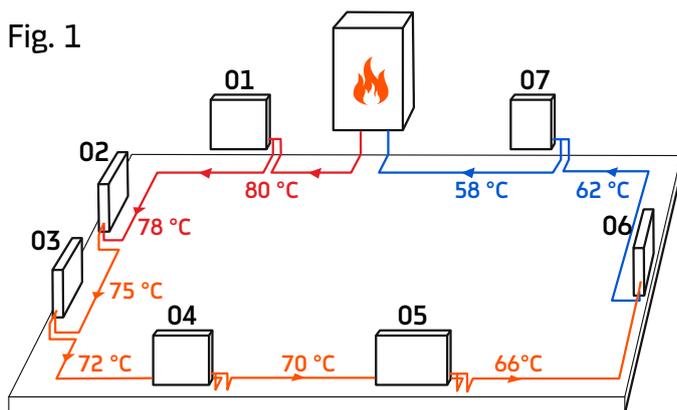
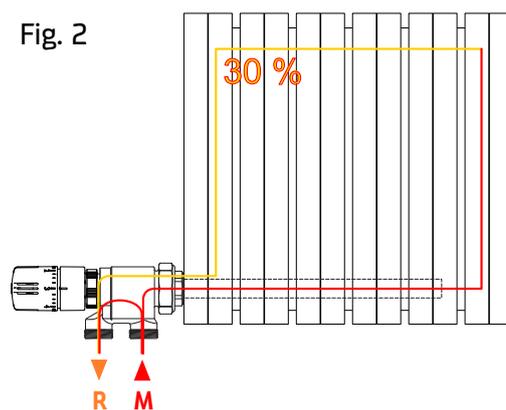


Fig. 2



## VM 1303 R



- Valvola monotubo termostattabile con attacco maschio.
- Single-pipe thermostatic valve with male connection.
- Robinet monotube thermostatisable avec embout mâle.
- Einrohr-Thermostatventil mit AG Anschluss.
- Válvula monotubo termostatizable con conexión macho.

Code	Size	Price	Class	Packaging
520172	1/2" x EUROK	28,22 €	GA	5 / 40
520173	3/4" x EUROK	28,22 €	GA	5 / 40



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

# SINGLE-PIPE MANUAL VALVES

Manual single-pipe valves, as opposed to the thermostatic type, do not allow choking of the flow to the heating element:

- in the open position, all the ring flow passes through the radiator;
- in the closed position, the heating body is completely isolated and all the fluid is bypassed on return.

Flow input and output can be inverted with items VM 1405 and VM 1415.

Items VM 1505 and VM 1515 with external vertical feed allow the flow input to be changed using the appropriate probes contained in the kit.

## Materials

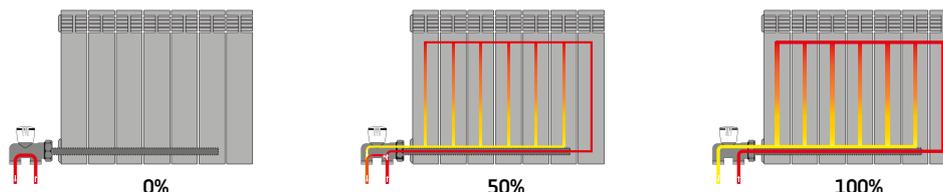
Body: nickel-plated brass CW617N

Gaskets and O-rings: Peroxide EPDM

## Technical characteristics

Max fluid temperature inside valve: 120°C

Maximum operating pressure: 10 bar



## VM 1405



- Valvola monotubo manuale a squadra con attacchi maschio.
- Single-pipe angle manual valve with male connections.
- Robinet monotube manuel équerre avec embouts mâle.
- Einrohr-Handbetätigungsverteil Eckform mit AG Anschlüsse.
- Válvula monotubo manual de escuadra con conexiones macho.

Code	Size	Price	Class	Packaging
501613	1/2" x EUROK - Flow rate 100%	20,73 €	GC	5 / 40
501614	3/4" x EUROK - Flow rate 100%	20,73 €	GC	5 / 40
5016135	1/2" x EUROK - Flow rate 50%	23,37 €	GC	5 / 40
5016145	3/4" x EUROK - Flow rate 50%	23,37 €	GC	5 / 40

## VM 1415



- Valvola monotubo manuale diritta con attacchi maschio.
- Single-pipe straight manual valve with male connections.
- Robinet monotube manuel droit avec embouts mâle.
- Einrohr-Handbetätigungsverteil Durchgangform mit AG Anschlüsse.
- Válvula monotubo manual recta con conexiones macho.

Code	Size	Price	Class	Packaging
502442	1/2" x EUROK - Flow rate 100%	25,60 €	GC	4 / 32
502443	3/4" x EUROK - Flow rate 100%	25,60 €	GC	5 / 40

## VM 1505



- Valvola monotubo manuale a squadra con convogliatore di flusso per tubo esterno e attacchi maschio.
- Single-pipe angle manual valve with flow conveyor for external pipe and male connections.
- Robinet monotube manuel équerre avec convoyeur de débit pour le tuyau externe et embouts mâle.
- Einrohr-Handbetätigungsverteil Eckform mit Flussumstellung für Außenrohr und AG Anschlüsse.
- Válvula monotubo manual de escuadra con deflector de flujo para tubo exterior y conexión macho.

Code	Size	Price	Class	Packaging
501616	1/2" x EUROK - Flow rate 100%	29,65 €	GC	4 / 32
5016165	1/2" x EUROK - Flow rate 50%	32,58 €	GC	4 / 32

## VM 1515



- Valvola monotubo manuale diritta con convogliatore di flusso per tubo esterno e attacchi maschio.
- Single-pipe straight manual valve with flow conveyor for external pipe and male connections.
- Robinet monotube manuel droit avec convoyeur de débit pour le tuyau externe et embouts mâle.
- Einrohr-Handbetätigungsverteil Durchgangform mit Flussumstellung für Außenrohr und AG Anschlüsse.
- Válvula monotubo manual recta con deflector de flujo para tubo exterior y conexiones macho.

Code	Size	Price	Class	Packaging
502445	1/2" x EUROK - Flow rate 100%	33,53 €	GC	4 / 32



- Raccordo per tubo in rame >> p. 77,82,150,497
- Fitting for copper pipe >> p. 77,82,150,497
- Raccord pour tube en cuivre >> p. 77,82,150,497
- Verschraubung für Kupferrohr >> p. 77,82,150,497
- Conexión para tubo de cobre >> p. 77,82,150,497



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497

# ACCESSORIES FOR SINGLE-PIPE VALVES

## ■ AVM 1326



- Bocchettone per valvole monotubo termostattizzabili e manuali.
- Fitting for thermostatic and manual single-pipe valves.
- Goulotte pour robinets monotube thermostatisables et manuels.
- Stutzen für Thermostat- und Handbetätigung-Einrohr-Ventile.
- Racor para válvulas monotubo termostaticables y manuales.

Code	Size	Price	Class	Packaging
506058	1/2"	3,81 €	GE	25 / 200
506059	3/4"	3,81 €	GE	20 / 80

## ■ AVM 1321



- Sonda interna per valvole monotubo termostattizzabili e manuali.
- Internal probe for thermostatic and manual single-pipe valves.
- Sonde interne pour robinets monotube thermostatisables et manuels.
- Interne Sonde für Thermostat- und Handbetätigung-Einrohr-Ventile.
- Sonda interna para válvulas monotubo termostaticables y manuales.

Code	Size	Price	Class	Packaging
501301	1/2"	0,47 €	GE	50 / 400
501302	3/4"	0,66 €	GE	50 / 400

## ■ AVM 1325



- Prolunga per sonda per valvole monotubo termostattizzabili e manuali.
- Extension for probe for thermostatic and manual single-pipe valves.
- Rallonge pour sonde pour robinets monotube thermostatisables et manuels.
- Verlängerung für Sonde für Thermostat- und Handbetätigung-Einrohr-Ventile.
- Extensión para la sonda para válvulas monotubo termostaticables y manuales.

Code	Size	Price	Class	Packaging
500584	350 mm - External Ø 14 mm - (Internal Ø installation, for 3/4" valves)	1,88 €	GE	1
500585	350 mm - External Ø 14,7 mm - (External Ø installation, for 1/2" valves)	1,93 €	GE	1

## ■ AVM 1324



- Controsonda per valvole monotubo termostattizzabili.
- Counterprobe for single-pipe thermostatic valves.
- Contre-sonde pour robinets monotube thermostatisables.
- Gegensonde für Einrohr-Thermostatventile.
- Contra-sonda para válvulas monotubo termostaticables.

Code	Price	Class	Packaging
500161	0,47 €	GE	200

## ■ AVM 1327



- Controsonda per valvole monotubo manuali.
- Counterprobe for single-pipe manual valves.
- Contre-sonde pour robinets monotube manuels.
- Gegensonde für Einrohr-Handbetätigungsventile.
- Contra-sonda para válvulas monotubo manuales.

Code	Price	Class	Packaging
501622	0,34 €	GE	50 / 400

**■ AVM 1319**


- **Convogliatore di flusso con sonda diritta e a squadra per valvole monotubo manuali con tubo esterno.**
- *Flow conveyor with straight and angle probe for manual single-pipe valves with external pipe.*
- **Convoyeur de débit avec sonde droite et équerre pour robinets monotube manuels avec tuyau externe.**
- *Flussumstellung mit Sonde Durchgangsform und Eckform für manuelle Einrohr-Ventile mit Außenrohr.*
- **Deflector de flujo con sonda recta y de escuadra para válvulas monotubo manuales con tubo exterior.**

Code	Size	Price	Class	Packaging
501677	1/2"	8,41 €	GE	25 / 200

**■ AVM 1328**


- **Sonda diritta per convogliatore di flusso.**
- *Straight probe for flow conveyor.*
- **Sonde droite pour convoyeur de débit.**
- *Sonde Durchgangsform für Flussumstellung.*
- **Sonda recta para deflector de flujo.**

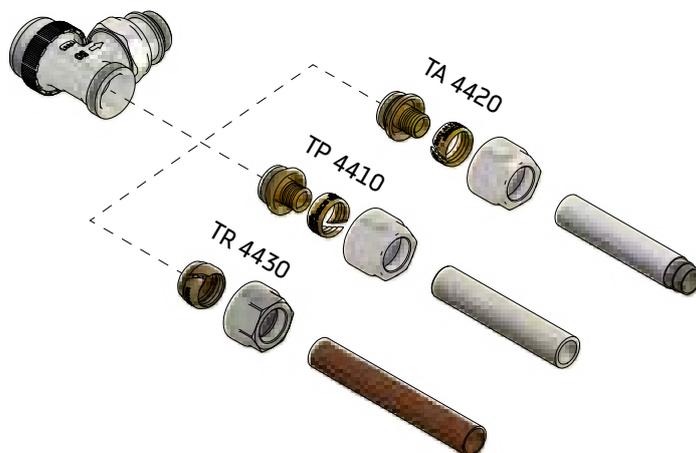
Code	Price	Class	Packaging
501623	0,51 €	GE	50 / 400

**■ AVM 1329**


- **Sonda a squadra per convogliatore di flusso.**
- *Angle probe for flow conveyor.*
- **Sonde équerre pour convoyeur de débit.**
- *Sonde Eckform für Flussumstellung.*
- **Sonda de escuadra para deflector de flujo.**

Code	Price	Class	Packaging
501624	0,46 €	GE	50 / 400

Suitable fittings for valves and lockshields with EUROKONUS connection



## TR 4430



- Raccordo EUROK per tubo rame ed acciaio dolce.
- EUROK fitting for copper and mild steel pipe.
- Raccord EUROK pour tube en cuivre et en acier doux.
- EUROK-Verschraubung für Kupferrohre und Weichstahlrohre.
- Conexión EUROK para tubo de cobre y acero dulce.

45 Nm ≤ T ≤ 55 Nm\*  
60 Nm ≤ T ≤ 80 Nm\*\*  
60 Nm ≤ T ≤ 70 Nm\*\*\*



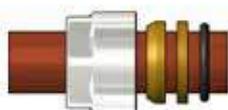
Code	Size	Color	Price	Class	Packaging
500998	EUROK x 10/1	■	2,51 €	JA	40 / 320
500157	EUROK x 12/1	■	2,05 €	JA	40 / 320
500024	EUROK x 14/1	■	2,05 €	JA	40 / 320
500025	EUROK x 15/1	■	2,05 €	JA	40 / 320
500026	EUROK x 16/1	■	2,05 €	JA	40 / 320

## TR 4430-18



- Raccordo EUROK per tubo rame ed acciaio dolce.
- EUROK fitting for copper and mild steel pipe.
- Raccord EUROK pour tube en cuivre et en acier doux.
- EUROK-Verschraubung für Kupferrohre und Weichstahlrohre.
- Conexión EUROK para tubo de cobre y acero dulce.

45 Nm ≤ T ≤ 55 Nm\*  
60 Nm ≤ T ≤ 80 Nm\*\*  
60 Nm ≤ T ≤ 70 Nm\*\*\*



Code	Size	Color	Price	Class	Packaging
500417	EUROK x 18/1	■	3,29 €	JA	40 / 320

- T = Coppia max. di serraggio. [\*Rame ricotto.]\*\*Rame semiduro. [\*\*\*Acciaio dolce.
- T = Max. tightening torque. [\*Soft copper.]\*\*Semi-hard copper. [\*\*\*Mild steel.
- T = Couple de serrage max. [\*Cuivre recuit.]\*\*Cuivre semi-rigide. [\*\*\*Acier doux.
- T = Max. Anzugsdrehmoment. [\*Geglühtes Kupfer.]\*\*Mittelfestes Kupfer. [\*\*\*Weichstahl.
- T = Par de apriete max. [\*Cobre recocido.]\*\*Cobre semiduro. [\*\*\*Acero dulce.

**TA 4420**


20 Nm ≤ T ≤ 30 Nm



- **Raccordo EUROK per tubo multistrato e in polietilene.**
- *EUROK fitting for multilayer and polyethylene pipe.*
- **Raccord EUROK pour tube multicouches et en polyéthylène.**
- *EUROK-Verschraubung für Verbund- und für Polyäthylen-Rohr.*
- **Conexión EUROK para tubo multicapa y de polietileno.**

**FOCUS: Fittings for multilayer and PEX pipe**

See page 151.

Code	Size	Color	Price	Class	Packaging
506061	EUROK x 12/1,8	■	2,98 €	JA	40 / 320
500683	EUROK x 14/2	■	2,98 €	JA	40 / 320
500400	EUROK x 15/1,5	■	3,02 €	JA	40 / 320
500684	EUROK x 16/2	■	2,98 €	JA	40 / 320
500579	EUROK x 16/2,25	■	2,98 €	JA	40 / 320
506040	EUROK x 16,2/2,6	■	2,98 €	JA	40 / 320
500012	EUROK x 17/2	■	3,19 €	JA	40 / 320
500685	EUROK x 18/2	■	3,19 €	JA	40 / 320
500754	EUROK x 18/2,5	■	3,19 €	JA	40 / 320
500914	EUROK x 20/2	■	3,33 €	JA	40 / 320
500009	EUROK x 20/2,25	■	3,50 €	JA	40 / 320
501010	EUROK x 20/2,5	■	3,33 €	JA	40 / 320
506295	EUROK x 20/2,9	■	4,55 €	JA	40 / 320

**TP 4410**


30 Nm ≤ T ≤ 40 Nm



- **Raccordo EUROK per tubo in polietilene.**
- *EUROK fitting for polyethylene pipe.*
- **Raccord EUROK pour tube en polyéthylène.**
- *EUROK-Verschraubung für Polyäthylen-Rohr.*
- **Conexión EUROK para tubo de polietileno.**

Code	Size	Color	Price	Class	Packaging
500590	EUROK x 12/1	■	2,79 €	JA	40 / 320
520041	EUROK x 12/2	■	2,75 €	JA	40 / 320
500679	EUROK x 14/2	■	2,75 €	JA	40 / 320
500148	EUROK x 15/1,7	■	2,98 €	JA	40 / 320
500769	EUROK x 15/2,5	■	2,86 €	JA	40 / 320
500591	EUROK x 16/1,5	■	2,69 €	JA	40 / 320
500680	EUROK x 16/2	■	2,69 €	JA	40 / 320
500681	EUROK x 16/2,2	■	2,69 €	JA	40 / 320
500682	EUROK x 17/2	■	2,86 €	JA	40 / 320
500145	EUROK x 18/1,8	■	2,86 €	JA	40 / 320
500650	EUROK x 18/2	■	3,19 €	JA	40 / 320
506020	EUROK x 18/2,5	■	2,86 €	JA	40 / 320
500651	EUROK x 20/2	■	3,19 €	JA	40 / 320
500649	EUROK x 20/2,8	■	3,08 €	JA	40 / 320
506200	EUROK x 20/3,4	■	3,08 €	JA	40 / 320
500753	EUROK x 21/2,5	■	3,47 €	JA	40 / 320

- **T = Coppia max. di serraggio.**
- *T = Max. tightening torque.*
- **T = Couple de serrage max.**
- *T = Max. Anzugsdrehmoment.*
- **T = Par de apriete max.**

### ADI 01



- Tubo cromato in acciaio dolce.
- Chrome-plated mild steel pipe.
- Tube chromé en acier doux.
- Verchromtes Weichstahl-Rohr.
- Tubo cromado de acero dulce.

Code	Size	Length	Color	Price	Class	Packaging
550015	Ø 15	1 m	■	9,75 €	HA	80

### TR 401



- Raccordo per tubo rame ed acciaio dolce con ogiva ricotta.
- Fitting for copper and mild steel pipe with annealed ogive.
- Raccord pour tube en cuivre et en acier doux avec ogive recuite.
- Verschraubung für Kupferrohre und Weichstahlrohre mit geglühtem Klemmring.
- Conexión para tubo de cobre y acero dulce con ojiva recocida.

Code	Size	Color	Price	Class	Packaging
501047	G 1/2" x 15/1	■	1,58 €	JA	100 / 800

### TR 402



- Raccordo per tubo rame ed acciaio dolce con ogiva e o-ring.
- Fitting for copper and mild steel with ogive and o-ring.
- Raccord pour tube en cuivre et en acier doux avec ogive et joint torique.
- Verschraubung für Kupferrohre und Weichstahlrohre mit Klemmring und O-Ring.
- Conexión para tubo de cobre y acero dulce con ojiva y o-ring.

Code	Size	Color	Price	Class	Packaging
501009	G 1/2" x 15/1	■	1,68 €	JA	100 / 800

### AGE 16



- Kit dado e bocchettone.
- Kit nut and fitting.
- Kit écrou et raccord.
- Kit Mutter und Anschluss-Stutzen.
- Conjunto tuerca y manguito de unión.

Code	Size	Color	Price	Class	Packaging
506201	5/8" F x 3/8" M	■	2,24 €	HA	75 / 600
506076	3/4" F x 3/8" M	■	2,64 €	HA	75 / 600
506202	3/4" F x 1/2" M	■	2,33 €	HA	75 / 600
506203	1" F x 3/4" M	■	5,14 €	HA	35 / 280

### AGE 01 N



- Bocchettone a tenuta morbida.
- Soft seal fitting.
- Goulotte à étanchéité souple.
- Stutzen mit O-Ring.
- Manguito de unión con junta blanda.

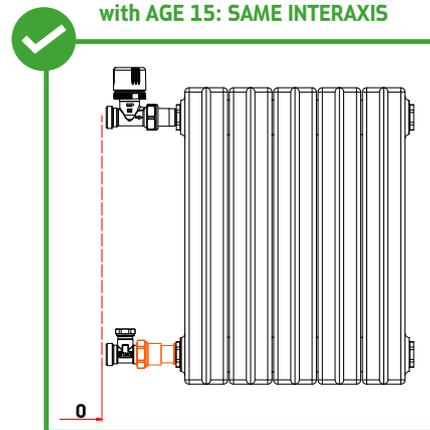
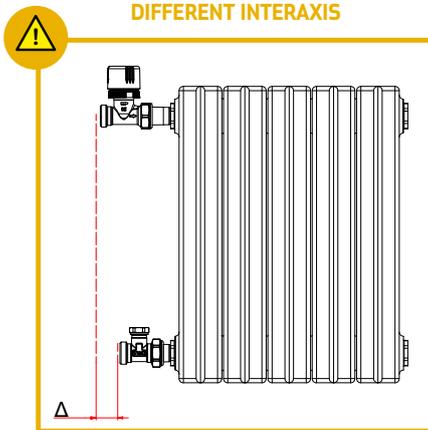
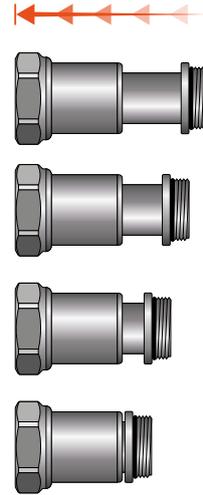
Code	Size	Color	Price	Class	Packaging
506074	5/8" F x 3/8" M O-ring	■	3,14 €	HA	75 / 600
500106	3/4" F x 3/8" M O-ring	■	2,71 €	HA	50 / 400
501279	3/4" F x 1/2" M O-ring (short version)	■	2,71 €	HA	50 / 400
500605N	3/4" F x 1/2" M O-ring	■	2,84 €	HA	50 / 200
501215N	1" F x 3/4" M O-ring	■	5,23 €	HA	35 / 140
506032N	1" F x 1" M O-ring	■	5,23 €	HA	20 / 160
506060N	1" F TP x 1" M O-ring	■	6,01 €	HA	20 / 160
501214N	1"1/4 F x 1" M O-ring	■	6,20 €	HA	20 / 80
501219	1"1/2 F x 1"1/4 M O-ring	■	14,45 €	HA	10 / 80

## FOCUS: AGE 15 telescopic fitting

After upgrades with replacement of valves and/or radiators, misalignments may arise, making a proper connection of the radiator to the system difficult, if not impossible. Using the AGE 15 telescopic ball fitting makes this issue easy to overcome. With extension of about 15 mm, critical situations can be recovered while ensuring an excellent aesthetic result. Available both in the soft-seal version, to be favoured in the case of new radiators, and in the version with tapered thread, recommended only for the replacement of valves.



Available with or without O-ring



### AGE 15



- Raccordo sferico allungabile.
- Extendible sphere fitting.
- Raccord sphérique extensible.
- Verlängerungsfähige kugelförmige Verbindung.
- Racor esférico extensible.

Code	Size	Color	Price	Class	Packaging
510197	3/8" (Length 38,8 - 53,8 mm)	■	8,59 €	HA	50 / 400
510198	1/2" (Length 39,8 - 54,8 mm)	■	10,82 €	HA	50 / 400
501425	1/2" O-ring (Length 36,8 - 51,8 mm)	■	10,64 €	HA	50 / 400

AGE 04



- Raccordo sferico ad angolo con tenuta o-ring.
- Spherical fitting elbow with o-ring seal.
- Raccord sphérique à angle avec étanchéité joint torique.
- Kugelverbinder mit O-Ring.
- Racor esférico en ángulo con junta o-ring.

Code	Size	Color	Price	Class	Packaging
501201	1/2"	■	5,52 €	HA	30 / 240

AGE 10



- Raccordo ad angolo con tenuta morbida per collegamento radiatore.
- Angle fitting with soft seal for radiator connection.
- Raccord à angle avec étanchéité souple pour raccordement radiateur.
- Winkelverbinder mit O-Ring für Verbindung zum Heizkörper.
- Racor en ángulo con junta blanda para conexión al radiador.

Code	Size	Color	Price	Class	Packaging
500069	1/2" M x 1/2" M	■	5,17 €	HA	30 / 240

RR 701



- Raccordo diritto con dado girevole femmina - femmina.
- Straight female-female fitting with rotating nut.
- Raccord droit avec écrou pivotant femelle - femelle.
- Durchgang IG x IG Schraubverbinder mit drehbarer Mutter.
- Racor recto con tuerca giratoria hembra - hembra.

Code	Size	Color	Price	Class	Packaging
500632	1/2" F x EUROK	■	3,51 €	KA	30 / 240
500624	3/4" F x EUROK	■	4,81 €	KA	30 / 240
500632N	1/2" F x EUROK	■	3,69 €	KA	30 / 240
500624N	3/4" F x EUROK	■	4,96 €	KA	25 / 200

RR 4613



- Raccordo diritto maschio - femmina.
- Straight male-female fitting.
- Raccord droit mâle-femelle.
- Durchgang AG x IG Schraubverbinder.
- Racor recto macho - hembra.

Code	Size	Color	Price	Class	Packaging
500080	1/2" F x EUROK	■	2,14 €	KA	50 / 200
500174	3/4" F x EUROK	■	2,77 €	KA	40 / 160
500081	1/2" F x EUROK	■	2,19 €	KA	50 / 200
500175	3/4" F x EUROK	■	2,87 €	KA	40 / 160


**AVK 01**


- **Adattatore per serie OPTIMA, detentori serie VK e valvole H.**
- *Adapter for OPTIMA series, VK series lockshields and H valves.*
- **Adaptateur pour série OPTIMA, coudes et tés de réglage série VK et pièces H.**
- *Adapter für Serie OPTIMA, Absperrungen der Serie VK und H-Ventile.*
- **Adaptador para serie OPTIMA, detentores serie VK y válvulas H**

Code	Size	Color	Price	Class	Packaging
500770	EUROK x 1/2" M O-ring		1,49 €	EC	80 / 640

**AGE 11**


- **Adattatore sede tenuta conica / tenuta piana.**
- *Tapered seal / flat seal seat adaptor.*
- **Adaptateur siège joint conique / joint plat.**
- *Sitzzwischenstück konisch Dichtung / Flachdichtung.*
- **Adaptador junta cónica / junta plana.**

Code	Size	Color	Price	Class	Packaging
500201	EUROK		1,06 €	HA	150 / 600

# ACCESSORIES AND SPARE PARTS

## VTT 02



- Vitone termostatico.
- Thermostatic insert.
- Insert thermostatique.
- Thermostat-Regulievorrichtung.
- Tornillo termostático.

Code	Price	Class	Packaging
500543	4,28 €	BG	100 / 800

## VTT 03



- Vitone termostatico con selettore di portata.
- Thermostatic insert with flow rate selector.
- Insert thermostatique avec sélecteur de débit.
- Thermostat- Einsatz mit Durchfluss-Wählschalter.
- Tornillo termostático con selector de flujo.

Code	Range	Price	Class	Packaging
500544	KV 0,1 - 0,6 (N SERIES)	5,02 €	BG	50 / 400

## AVT 02



- Ghiera per vitone termostatico.
- Ring nut for thermostatic insert.
- Bague filetée pour insert thermostatique.
- Ring für Thermostat-Regulievorrichtung.
- Anillo para el tornillo termostático.

Code	Price	Class	Packaging
553003	1,15 €	BG	200 / 1600

## TM 3053



- Testa manuale in plastica.
- Plastic manual head.
- Tête manuelle en plastique.
- Kunststoff manueller Hebel.
- Cabezal manual.

Code	Size	Color	Price	Class	Packaging
500046	M30 x 1,5	□	1,20 €	AD	25 / 200

## TM 3052



- Testa manuale in plastica con ghiera in ottone.
- Plastic manual head with brass ring.
- Tête manuelle en plastique avec bague en laiton.
- Kunststoff manueller Hebel mit Messing Rändelmutter.
- Cabeza manual de plástico con rosca de latón.

Code	Size	Color	Price	Class	Packaging
500047	M30 x 1,5	□	2,10 €	AD	400

**AGE 09 NH**


- **Cappuccio di protezione per vitone termostatico.**
- *Protection cap for thermostatic insert.*
- **Capuchon de protection pour insert thermostatique.**
- *Schutzkappe für Thermostat-Regulievorrichtung.*
- **Capuchón de protección para mecanismo termostático.**

Code	Color	Price	Class	Packaging
501278NH		0,36 €	HA	50 / 400

**AGE 09**


- **Cappuccio di protezione per vitone termostatico.**
- *Protection cap for thermostatic insert.*
- **Capuchon de protection pour insert thermostatique.**
- *Schutzkappe für Thermostat-Regulievorrichtung.*
- **Tapa de protección para tornillo termostático.**

Code	Color	Price	Class	Packaging
501278		0,36 €	HA	50 / 400

**AGE 09 N**


- **Cappuccio di protezione per vitone termostatico.**
- *Protection cap for thermostatic insert.*
- **Capuchon de protection pour insert thermostatique.**
- *Schutzkappe für Thermostat-Regulievorrichtung.*
- **Capuchón de protección para mecanismo termostático.**

Code	Color	Price	Class	Packaging
501278DRN		0,36 €	HA	50 / 400

**AGE 09 D**


- **Cappuccio per detentori serie pesante.**
- *Cap for lockshields heavy series.*
- **Capuchon pour té/coudes de réglage série lourde.**
- *Schutzkappe für Rücklaufventile schwere Serie.*
- **Capuchón de protección para detentores serie pesada.**

Code	Color	Price	Class	Packaging
501278D		0,36 €	HA	50

**AGE 05**


- **Tappo con guarnizione per collettori con detentori a doppia regolazione micrometrica.**
- *Plug with gasket for manifolds with double-micrometric-adjustment lockshields.*
- **Bouchon avec joint pour collecteurs avec inserts à double réglage micrométrique.**
- *Verschluss mit Dichtung für Verteiler mit doppelteinevoren StellbarenRücklaufverschraubungen.*
- **Tapón con junta para colectores con detentores de doble regulación micrométrica.**

Code	Color	Price	Class	Packaging
500056		0,68 €	HA	200 / 1600

### AGE 14



- Prolunga per attacco valvole.
- Extension for valves connection.
- Rallonge pour l'embout des robinets.
- Verlängerung für Ventilanschluß.
- Extensión para la conexión de las válvulas.

Code	Size	Price	Class	Packaging
501424	EUROK - 13,5 mm	3,94 €	HA	40 / 320
501964	EUROK - 18,5 mm	4,26 €	HA	40 / 320
501965	EUROK - 23,5 mm	4,68 €	HA	40 / 320

### AGE 07



- Mostrina singola in ABS (in 2 pezzi).
- ABS single plastic plate (in 2 pieces).
- Rosace single en ABS (en 2 pièces).
- Einzelne Abdeckmanschette aus ABS (in 2 Stücke).
- Embellecedor simple de ABS (en dos piezas).

Code	Size	Color	Price	Class	Packaging
500110	Ø15	<input type="checkbox"/>	0,84 €	HA	1100

### AGE 06



- Mostrina doppia in ABS (in 2 pezzi).
- ABS double plate (in 2 pieces).
- Rosace double en ABS (en 2 pièces).
- Doppelte Abdeckmanschette aus ABS (in 2 Stücke).
- Plafón embellecedor doble de ABS (en 2 piezas).

Code	Size	OC distance	Color	Price	Class	Packaging
501308	Ø15	38 mm	<input type="checkbox"/>	0,67 €	HA	400
500109	Ø15	50 mm	<input type="checkbox"/>	0,88 €	HA	500

### AGE 17



- Adattatore teste termostatiche / valvole DANFOSS.
- Thermostatic heads / DANFOSS valves adapter.
- Adaptateur têtes thermostatiques / robinets DANFOSS.
- Adapter für Thermostatköpfe / Ventile DANFOSS.
- Adaptador cabezas termostáticas / válvulas DANFOSS.

Code	Price	Class	Packaging
560001	9,41 €	VE	40 / 320

**AC 625 M**


- **Valvola manuale di sfiato.**
- *Manual air vent valve.*
- **Purgeur d'air manuel.**
- *Manuelles Entlüftungsventil.*
- **Válvula purgadora manual.**

Code	Size	Price	Class	Packaging
500954M	1/4"	1,63 €	HA	100 / 400
500675M	3/8"	1,59 €	HA	100 / 400
500674M	1/2"	1,96 €	HA	100 / 400

**AC 651**


- **Valvola di sfiato aria automatica per radiatori.**
- *Automatic air valve for radiators.*
- **Purgeur d'air automatique pour les radiateurs.**
- *Automatisches Entlüftungsventil für Heizkörper.*
- **Válvula purgadora automática para radiadores.**

Code	Size	Price	Class	Packaging
506251DX	1" - RIGHT	7,25 €	HA	20 / 160
506251SX	1" - LEFT	7,25 €	HA	20 / 160
506252DX	1"1/2 - RIGHT	9,37 €	HA	120
506252SX	1"1/2 - LEFT	9,37 €	HA	120

# FAN-COIL VALVES

VFC valves, available in two-way and three-way versions (4 ports), are used to control the flow of hot and cold water in heating and air conditioning systems with fan-coil terminals.

The valve is a normally open type, i.e., without the actuator mounted, the straight way supply to the user component is open.

Flow control is performed by mounting an electrothermic actuator that can be either normally closed or normally open. The operation for this type of valve is normally ON/OFF.

These valves can be mounted on either the flow or the return side, even though the return-side is preferable for less critical temperature conditions for both heating and cooling. However, to avoid leaks and noises from the system, it is important not to exceed the maximum differential pressure at the ends of the valve.

The two-way version completely cuts off the heating fluid flow and should therefore to be used with high efficiency circulation systems.

The three-way version with 4 ports can be mounted either as a bypass as in Fig. 1 (one inlet and two outlets) or for mixing as in Fig. 2 (2 inlets and one outlet). Closing the straight supply way takes the flow through the bypass, resulting in a continuous recirculation of the fluid.

## Materials

Body: brass CW617N

Seals and O-rings: peroxide EPDM

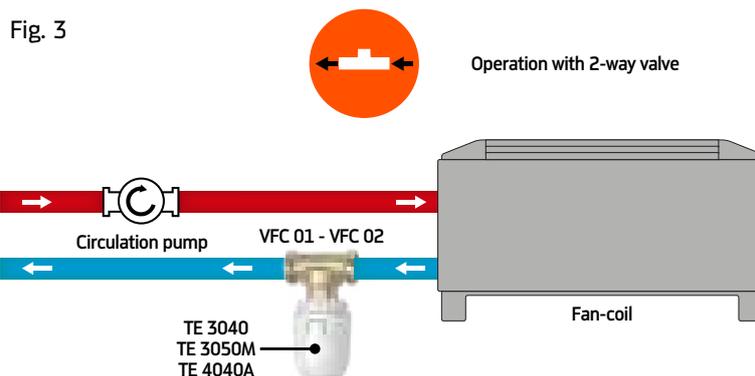
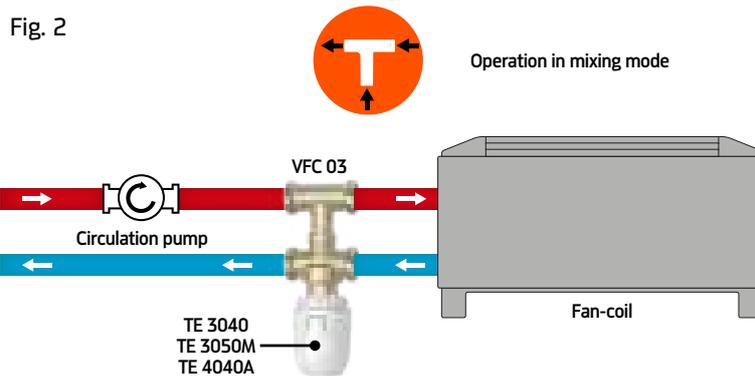
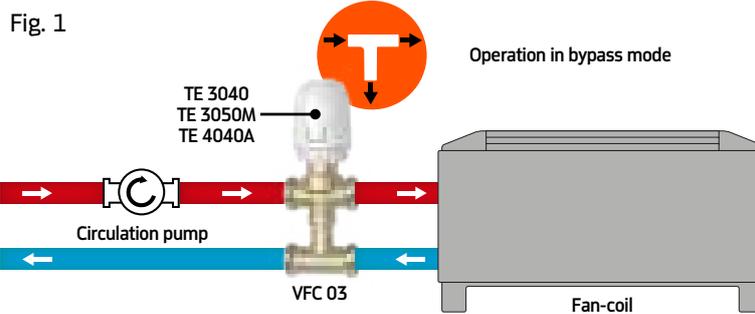
## Technical specifications

Max. fluid temperature inside valve: 120 °C

Maximum operating pressure: 10 bar

Max. permissible pressure differential with fitted electro-thermal head: 1.5 bar

Operating mode: on/off



**VFC 01**


- Valvola per fan-coil a 2 vie.
- 2-way fan-coil valve.
- Vanne à 2 voies pour fan-coil.
- 2-Wege Ventil für Ventilator-konvektoren.
- Válvula de 2 vías para fan-coil.

Code	Kv	Size	Color	Price	Class	Packaging
570200	0.25	1/2" M	□	15,36 €	BL	10 / 80
570201	0.40	1/2" M	■	15,36 €	BL	10 / 80
570202	0.63	1/2" M	■	15,36 €	BL	10 / 80
570203	1.00	1/2" M	■	15,36 €	BL	10 / 80
570204	1.60	1/2" M	■	15,36 €	BL	10 / 80
506356	2.10	1/2" M	■	15,36 €	BL	10 / 80
570210	0.25	3/4" M	□	17,14 €	BL	10 / 80
570211	0.40	3/4" M	■	17,14 €	BL	10 / 80
570212	0.63	3/4" M	■	17,14 €	BL	10 / 80
570213	1.00	3/4" M	■	17,14 €	BL	10 / 80
570214	1.60	3/4" M	■	17,14 €	BL	10 / 80

**VFC 02**


- Valvola per fan-coil a 2 vie per elevate portate.
- 2-way fan-coil valve for high flow capacity.
- Vanne à 2 voies pour fan-coil pour débit élevé.
- 2-Wege Ventil für Ventilator-konvektoren für erhöhte Durchfluss.
- Válvula de 2 vías para fan-coil para caudales elevados.

Code	Kv	Size	Color	Price	Class	Packaging
570220	2.50	3/4" M	■	19,33 €	BL	10 / 80
570221	4.00	3/4" M	■	20,06 €	BL	10 / 80
570216	4.50	3/4" M	■	20,27 €	BL	10 / 80

**VFC 03**


- Valvola per fan-coil a 3 vie.
- 3-way fan-coil valve.
- Vanne à 3 voies pour fan-coil.
- 3-Wege Ventil für Ventilator-konvektoren.
- Válvula de 3 vías para fan-coil.

Code	Kv	Size	OC distance	Color	Price	Class	Packaging
570205	0.25	1/2" M	40 mm	□	20,85 €	BL	10 / 80
570206	0.40	1/2" M	40 mm	■	20,85 €	BL	10 / 80
570207	0.63	1/2" M	40 mm	■	20,85 €	BL	10 / 80
570208	1.00	1/2" M	40 mm	■	20,85 €	BL	10 / 80
570209	1.60	1/2" M	40 mm	■	20,85 €	BL	10 / 80
506098	2.50	3/4" M	50 mm	□	20,48 €	BL	5 / 40



- Teste elettrotermiche >>p. 257,420,460,551,563
- Electrothermal heads >>p. 257,420,460,551,563
- Têtes électrothermiques >>p. 257,420,460,551,563
- Elektrothermische Stellantriebe >>p. 257,420,460,551,563
- Cabezal electrotérmicas >>p. 257,420,460,551,563

# FAN-COIL UNIT KIT

Fan-Coil Unit Kit is a pre-assembled multifunction bypass unit designed for plant situations that require a constant flow of heat transfer fluid, such as fan-coils, cold beams, radiant strip heaters and other ceiling conditioning systems. The flow control is entrusted to a PICV (Pressure Independent Control Valve) dynamic balancing valve.

Fan-Coil Unit Kit connects the delivery and return pipes to the terminal units and integrates the following accessories, necessary for correct operation and maintenance of the system:

- three-way valves
- two loading/unloading taps
- mesh filter
- PICV
- piezometric connections
- Venturi orifice for flow measurement.

The position of the ball valves allows up to five operating modes and allows isolating the primary circuit (system side) from the secondary circuit (serving the individual terminal units). In this way it is easy to clean the mesh strainer, replace a terminal unit or perform the flushing, washing and cleaning of the primary circuit (without these operations affecting the terminal unit).

## Materials

Body: brass CW617N

Strainer mesh: AISI 304 stainless steel

Insulation: ARPRO 4135 FR

## Technical specifications

Compatible fluids: water or glycol solution (max. 50%)

Permissible pressure differential range (PICV): 16-200 kPa; 30-400 kPa

Flow rate regulation range (PICV): 37-575 l/h; 64-1110 l/h

Maximum operating pressure: 10 bar

Maximum operating temperature: 120 °C

Mesh strainer: 500 µm

Available Venturi orifice Kv: 0.307; 0.477; 1.15; 2.15; 3.66; 4.27

Connections to primary circuit: 1/2" F (DN 15) - 3/4" F (DN 20) with rotary inlet ports

Connections to secondary circuit: 3/4" M

Dimensions with insulation casing W x H x D: 250 x 330 x 110 mm

Insulation density: 40 g/l

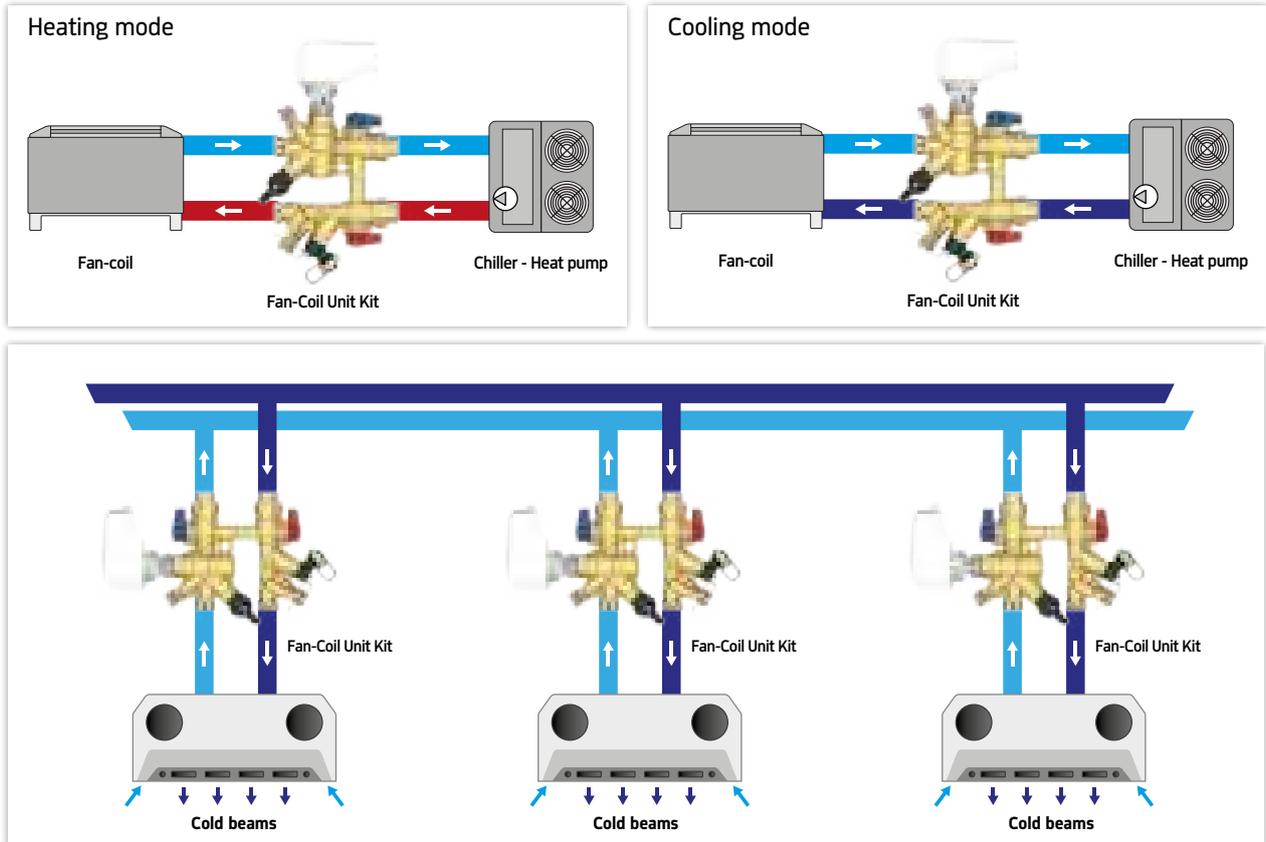
Insulation conductivity: 0.037 W/mK

Insulation fire reaction class (standard UL-94): HF-1 Class

## PLUS

- **Compact and pre-assembled for an easy and quick installation**
- **Multifunction: 5 operating and maintenance modes**
- **Simplified system maintenance**
- **Flow control via PICV**
- **Flow measurement and precise balancing thanks to the Venturi orifice and piezometric connections**

### Applications



### 5 operating modes

- 1**

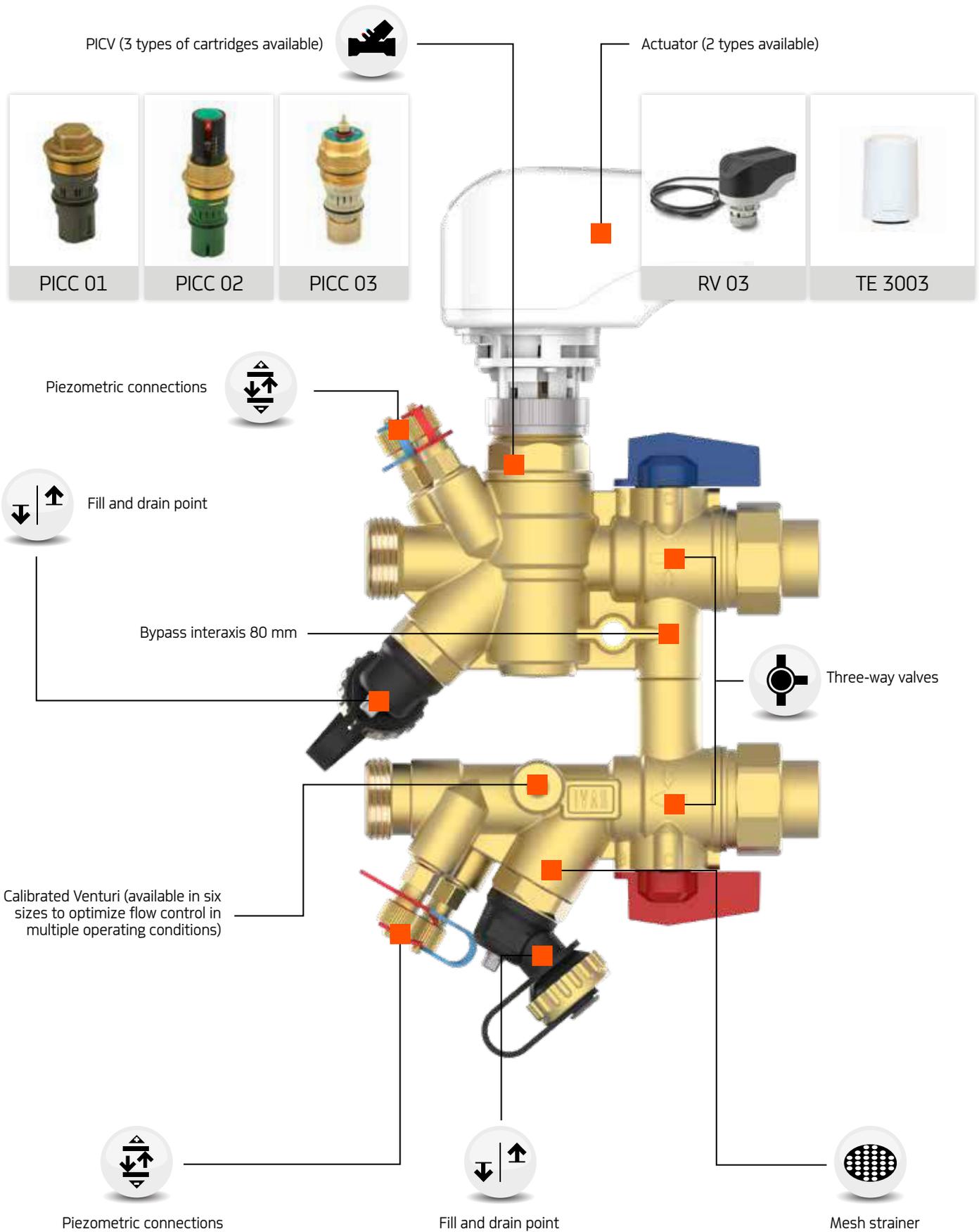
Supply to the terminal unit  
The valves are both open, the bypass branch of the system is closed. Water flows into the terminal unit.
- 2**

Insulation of the terminal unit and flushing of the primary circuit.  
Both valves are closed, the bypass branch of the system is open. The water from the primary circuit recirculates into the bypass branch.  
This configuration is used to clean the primary circuit, avoiding possible contamination of the water on the terminal unit side.
- 3**

Washing the terminal unit with water from the primary circuit - PICV cartridge not mounted.  
System supply valve is open, return valve is closed. The bypass branch is closed.  
Disconnect the PICV cartridge from the system to prevent clogging.  
This configuration allows water from the main circuit (containing the cleaning fluid) to circulate through the terminal unit. The water is discharged from the drain valve of the return branch of the system.
- 4**

Direct washing of the mesh filter.  
The supply valve of the system is open, the return valve is closed. The bypass branch is closed.  
This configuration allows water from the main circuit to circulate through the mesh filter. The filter is deprived of residual impurities and the water is discharged from the discharge tap of the system's delivery branch.
- 5**

Insulation of the terminal unit for maintenance and cleaning - PICV cartridge not mounted.  
The valves are both closed, the bypass branch of the system is open. Primary circuit water recirculates into the bypass branch.  
Disconnect the PICV cartridge from the system to prevent it from clogging up.  
This configuration isolates the terminal unit. This allows maintenance of the terminal unit side system. The circuit section can be cleaned with the loading and unloading taps open, by circulating an external cleaning fluid.  
The circulator of the primary circuit stops, to avoid the movement of water not required by the system at this stage.



**FCU-KIT 00**


- **Gruppo di bypass multifunzione preassemblato completo di coppia di valvole a 3 vie, filtro a maglie, rubinetti di carico/scarico, orificio Venturi con coppia di prese piezometriche e regolatore di portata PICV.**
- *Pre-assembled multifunction bypass unit complete with pair of 3-way valves, mesh strainer, fill/drain taps, Venturi orifice with pair of piezometric ports and PICV flow regulator.*
- **Unité de bypass multifonctions pré-assemblée avec paire de vannes à 3 voies, filtre en maille, vannes de remplissage / vidange, orifice Venturi avec paire de manchons piézométriques et régulateur de débit PICV.**
- *Vormontierte multifunktionsfähige Bypass-Gruppe, komplett mit paarweisem 3-Wege-Ventil, Maschenfilter, Befüll-/Ablasshähne, Venturi-Düse mit paarweisem Druckmessanschluss und PICV-Volumenstromregler.*
- **Grupo de bypass multifunción premontado dotado de un par de válvulas de 3 vías, filtro de mallas, grifos de carga/descarga, orificio Venturi con un par de tomas piezométricas y regulador de caudal PICV.**

Code	Size	Insulation	Price	Class	Packaging
52014503	1/2" F - Venturi Ø3	-	182,88 €	BL	1
52014504	1/2" F - Venturi Ø4	-	182,88 €	BL	1
52014506	1/2" F - Venturi Ø6	-	182,88 €	BL	1
52014508	1/2" F - Venturi Ø8	-	182,88 €	BL	1
52014510	1/2" F - Venturi Ø10	-	182,88 €	BL	1
52014511	1/2" F - Venturi Ø11	-	182,88 €	BL	1
52014503I	1/2" F - Venturi Ø3	✓	224,68 €	BL	1
52014504I	1/2" F - Venturi Ø4	✓	224,68 €	BL	1
52014506I	1/2" F - Venturi Ø6	✓	224,68 €	BL	1
52014508I	1/2" F - Venturi Ø8	✓	224,68 €	BL	1
52014510I	1/2" F - Venturi Ø10	✓	224,68 €	BL	1
52014511I	1/2" F - Venturi Ø11	✓	224,68 €	BL	1
52014603	3/4" F - Venturi Ø3	-	184,97 €	BL	1
52014604	3/4" F - Venturi Ø4	-	184,97 €	BL	1
52014606	3/4" F - Venturi Ø6	-	184,97 €	BL	1
52014608	3/4" F - Venturi Ø8	-	184,97 €	BL	1
52014610	3/4" F - Venturi Ø10	-	184,97 €	BL	1
52014611	3/4" F - Venturi Ø11	-	184,97 €	BL	1
52014603I	3/4" F - Venturi Ø3	✓	226,77 €	BL	1
52014604I	3/4" F - Venturi Ø4	✓	226,77 €	BL	1
52014606I	3/4" F - Venturi Ø6	✓	226,77 €	BL	1
52014608I	3/4" F - Venturi Ø8	✓	226,77 €	BL	1
52014610I	3/4" F - Venturi Ø10	✓	226,77 €	BL	1
52014611I	3/4" F - Venturi Ø11	✓	226,77 €	BL	1

FCU-KIT 01



- Gruppo di bypass multifunzione preassemblato completo di coppia di valvole a 3 vie, filtro a maglie, rubinetti di carico/scarico e orifizio Venturi con coppia di prese piezometriche.
- Pre-assembled multifunction bypass unit complete with pair of 3-way valves, mesh strainer, fill/drain taps and Venturi orifice with pair of piezometric ports.
- Unité de bypass multifonctions pré-assemblée avec paire de vannes à 3 voies, filtre en maille, vannes de remplissage / vidange et orifice Venturi avec paire de manchons piézométriques.
- Vormontierte multifunktionsfähige Bypass-Gruppe, komplett mit paarweisem 3-Wege-Ventil, Maschenfilter, Befüll-/Ablasshähne und Venturi-Düse mit paarweisem Druckmessanschluss.
- Grupo de bypass multifunción premontado dotado de un par de válvulas de 3 vías, filtro de mallas, grifos de carga/descarga y orificio Venturi con un par de tomas piezométricas.

Code	Size	Price	Class	Packaging
52014703	1/2" F - Venturi Ø3	129,58 €	BL	1
52014704	1/2" F - Venturi Ø4	129,58 €	BL	1
52014706	1/2" F - Venturi Ø6	129,58 €	BL	1
52014708	1/2" F - Venturi Ø8	129,58 €	BL	1
52014710	1/2" F - Venturi Ø10	129,58 €	BL	1
52014711	1/2" F - Venturi Ø11	129,58 €	BL	1
52014803	3/4" F - Venturi Ø3	131,67 €	BL	1
52014804	3/4" F - Venturi Ø4	131,67 €	BL	1
52014806	3/4" F - Venturi Ø6	131,67 €	BL	1
52014808	3/4" F - Venturi Ø8	131,67 €	BL	1
52014810	3/4" F - Venturi Ø10	131,67 €	BL	1
52014811	3/4" F - Venturi Ø11	131,67 €	BL	1

PICV 00 FCU



- Corpo valvola di bilanciamento dinamico, completo di prese piezometriche e scarico. Connessioni maschio - femmina.
- Dynamic balancing valve body, complete with piezometric ports and drain. Male - female connections.
- Corps de vanne à équilibrage dynamique, complet avec douilles piézométriques et échappement. Connexions mâle - femelle.
- Körper dynamisches Abgleichventil, komplett mit Piezometeranschlüsse und Entladeventil. AG - IG Anschlüsse
- Cuerpo de la válvula de equilibrio dinámico, dotado de tomas piezométricas y descarga. Conexiones macho - hembra.

Code	Size	Color	Price	Class	Packaging
520149	3/4" M x 3/4" F	■	55,39 €	BL	5 / 40



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- Cartouche PICC 01 >> p. 435
- Einsatz PICC 01 >> p. 435
- Cartucho PICC 01 >> p. 435

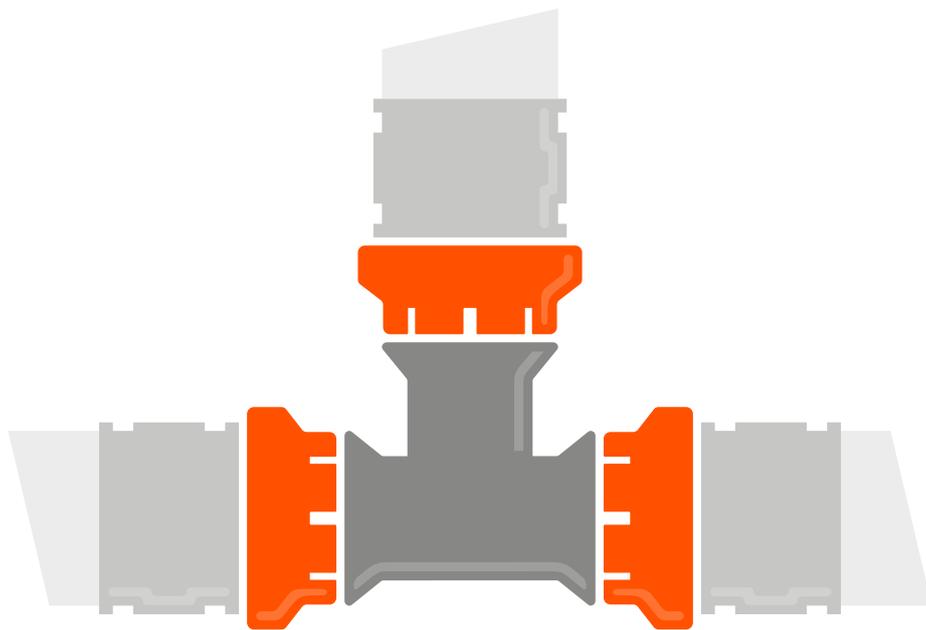


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- Cartuccia PICC 03 >> p. 435
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- Cartouche PICC 03 >> p. 435
- Einsatz PICC 03 >> p. 435
- Cartucho PICC 03 >> p. 435

# PIPES AND FITTINGS



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	<b>Raccordi a pressione P•M•P</b> <i>Press fittings P•M•P</i> <b>Raccords à presser P•M•P</b> <i>Press Fittings P•M•P</i> <b>Accesorios a presar P•M•P</b>	<b>125</b>
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	<b>Raccordi a pressione con perdita P•M•P•L</b> <i>Press fittings with leakage function P•M•P•L</i> <b>Raccords à presser avec perte P•M•P•L</b> <i>Press Fittings mit Verlust-Funktion P•M•P•L</i> <b>Accesorios a presar con pérdida P•M•P•L</b>	<b>137</b>
	<b>Accessori e parti di ricambio per raccordi a pressione M•P / M•P•L</b> <i>Accessories and spare parts for press fittings M•P / M•P•L</i> <b>Accessoires et pièces de rechange pour raccords à presser M•P / M•P•L</b> <i>Zubehör und Ersatzteile für Press Fittings M•P / M•P•L</i> <b>Accesorios y repuestos para accesorios a presar M•P / M•P•L</b>	<b>140</b>
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**Raccorderia per la distribuzione sottotraccia**
*Fittings for under-floor distribution systems*
**Raccords pour la distribution à encastrer**
*Verbinder für die Unterputzverteilung*
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**Utensili e accessori generali**
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## MULTILAYER

Multilayer pipes have five different layers:

1. polymer (inner layer)
2. adhesive
3. aluminium alloy (middle layer)
4. adhesive
5. polymer (outer layer)

Given the composite nature of the material, they **perfectly combine the advantages of plastic pipe with those of a metal pipe.**

### Advantages of plastic piping:

- light weight
- flexibility
- low surface roughness
- high resistance to corrosion and chlorinated water

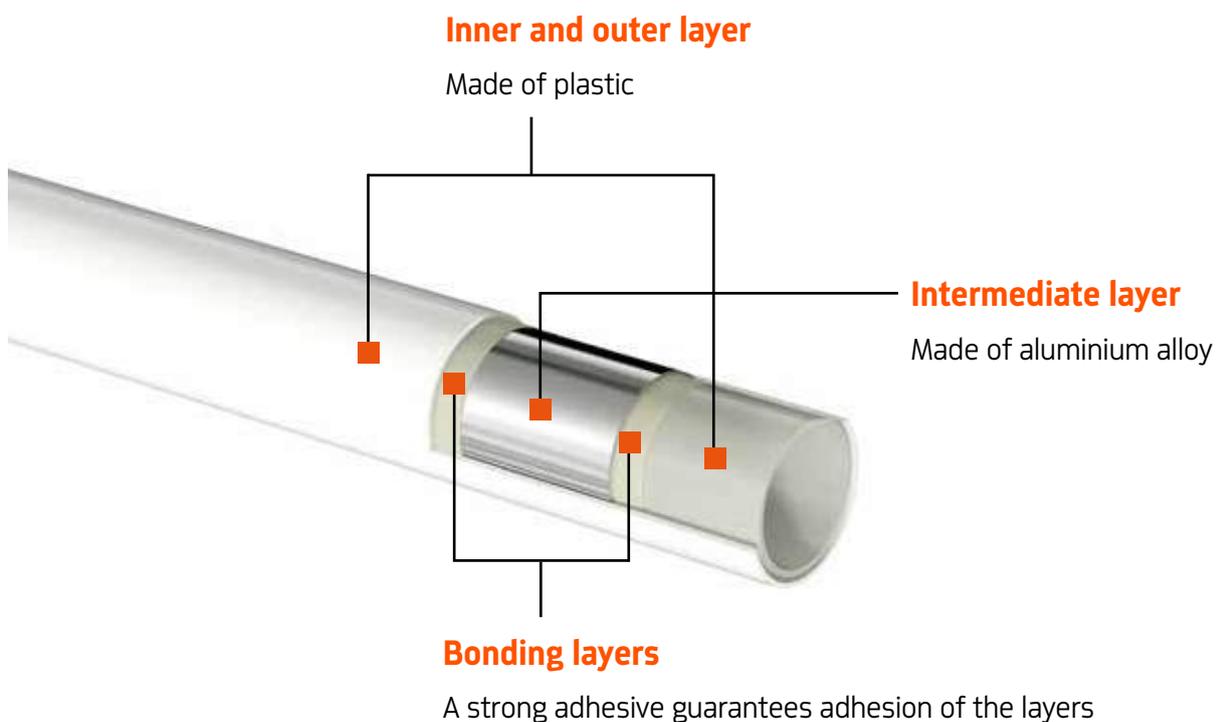
### Advantages of metal piping:

- high mechanical resistance
- holds bends
- completely impermeable to oxygen and light.

Multilayer pipes are very versatile and are primarily used in domestic water distribution, low and high temperature heating and compressed air distribution systems. The reference standard for these pipes, EN ISO 21003, provides for different usage classes, which define the operating conditions, in terms of design temperatures and pressures to which they will be subjected in their service life.

The polymer that makes up the inner and outer layers can be different. Typically they are combinations of PE-X and HDPE, with the latter never left in contact with the fluid, so it never makes up the inner layer of the pipe.

To define its range of multilayer pipes, IVAR has selected top quality suppliers, with pipes made in Italy (IVAR brand) and in Germany (Fraenkische brand).




**Fig. 1**

**Fig. 2**
**INSTRUCTIONS FOR CORRECT PREPARATION OF THE PIPE**
**Cutting (Fig. 1)**

Cut the pipe using a shear that does not squash the pipe and make sure that the cut is perpendicular to the pipe axis. For the specific shears, see the section "Tools and general accessories".

**Calibration and countersink (Fig. 2)**

Calibration determines the right internal diameter of the pipe, while countersink allows to create a chamfer at the end of the pipe which prevents any movement of the o-rings from their housing during the pipe insertion phase. If there is great resistance when inserting the fitting, this means that calibration and countersinking were not carried out correctly; in this case, you have to avoid to insert the fitting in the pipe, repeat calibration/countersinking operations and lubricate o-rings with water. For calibration and countersink tools, see the section "Tools and general accessories".

**NOTE: it is absolutely forbidden to lubricate o-rings with mineral-based oils or greases.**

**ALPEX DUO**


- Tubo multistrato PE-Xb/Al/PE-Xb in barre.
- PE-Xb/Al/PE-Xb multilayer pipe in bars.
- Tuyau multicouche PE-Xb/Al/PE-Xb en barres.
- Verbundrohr PE-Xb/Al/PE-Xb in Stangen.
- Tubo multicapa PE-Xb/Al/PE-Xb en barras.

**FRÄNKISCHE**

Code	Size	Length	Price	Class	Packaging
ALPEX-16B	Ø16/2 (Aluminium 0,30 mm)	5 m	3,142 €/m	HG	75 m
ALPEX-18B	Ø18/2 (Aluminium 0,35 mm)	5 m	3,461 €/m	HG	5 m
ALPEX-20B	Ø20/2 (Aluminium 0,40 mm)	5 m	3,718 €/m	HG	50 m
ALPEX-26B	Ø26/3 (Aluminium 0,65 mm)	5 m	6,417 €/m	HG	25 m
ALPEX-32B	Ø32/3 (Aluminium 0,85 mm)	5 m	9,311 €/m	HG	20 m
ALPEX-40B	Ø40/3,5 (Aluminium 1,00 mm)	5 m	13,761 €/m	HG	25 m
ALPEX-50B	Ø50/4 (Aluminium 1,20 mm)	5 m	20,703 €/m	HG	5 m
ALPEX-63B	Ø63/4,5 (Aluminium 1,50 mm)	5 m	39,902 €/m	HG	15 m

**IVAR-APEX B**


- Tubo multistrato PE-Xb/Al/PE-Xb in barre.

Codice	Size	Length	Prezzo	Classe	Packaging
I-APEX16B4	Ø16/2 (Aluminium 0,20 mm)	4 m	1,689 €/m	HX	100 m
I-APEX20B4	Ø20/2 (Aluminium 0,25 mm)	4 m	2,41 €/m	HX	64 m
I-APEX25B4	Ø25/2,5 (Aluminium 0,30 mm)	4 m	5,047 €/m	HX	40 m
I-APEX26B4	Ø26/3 (Aluminium 0,30 mm)	4 m	5,222 €/m	HX	40 m
I-APEX32B4	Ø32/3 (Aluminium 0,40 mm)	4 m	7,437 €/m	HX	28 m

### ALPEX DUO XS



- **Tubo multistrato PE-Xb/Al/PE-HD in rotoli.**
- *PE-Xb/Al/PE-HD multilayer pipe in coils.*
- **Tuyau multicouche PE-Xb/Al/PE-HD en rouleaux.**
- *Verbundrohr PE-Xb/Al/PE-HD in Rollen.*
- **Tubo multicapa PE-Xb/Al/PE-HD en rollos.**

### FRÄNKISCHE

Code	Size	Price	Class	Packaging
ALPEX-16R1	Ø16/2 (Aluminium 0,20 mm)	1,607 €/m	HB	100 m
ALPEX-16R3	Ø16/2 (Aluminium 0,20 mm)	1,607 €/m	HB	301,50 m
ALPEX-18R1	Ø18/2 (Aluminium 0,30 mm)	2,348 €/m	HB	100 m
ALPEX-18R3	Ø18/2 (Aluminium 0,30 mm)	2,348 €/m	HB	301,50 m
ALPEX-20R1	Ø20/2 (Aluminium 0,30 mm)	2,431 €/m	HB	100 m
ALPEX-20R3	Ø20/2 (Aluminium 0,30 mm)	2,431 €/m	HB	301,50 m
ALPEX-26R	Ø26/3 (Aluminium 0,50 mm)	4,862 €/m	HB	50 m
ALPEX-32R	Ø32/3 (Aluminium 0,60 mm)	7,251 €/m	HB	50 m

### ALPEX DUO XS RCB



- **Tubo multistrato PE-Xb/Al/PE-HD in rotoli completo di coibentazione termica.**
- *PE-Xb/Al/PE-HD multilayer pipe in coils complete with thermal insulation.*
- **Tuyau multicouche PE-Xb/Al/PE-HD en rouleaux avec isolation thermique.**
- *Verbundrohr PE-Xb/Al/PE-HD in Rollen komplett mit Wärmedämmung.*
- **Tubo multicapa PE-Xb/Al/PE-HD en rollos con aislamiento térmico.**

### FRÄNKISCHE

Code	Size	Insulation thickness	Color	Price	Class	Packaging
ALPEX-16RCB	Ø16/2 (Aluminium 0,20 mm)	6 mm	■	2,173 €/m	HE	50 m
ALPEX-18RCB	Ø18/2 (Aluminium 0,30 mm)	6 mm	■	3,028 €/m	HE	50 m
ALPEX-20RCB	Ø20/2 (Aluminium 0,30 mm)	6 mm	■	3,10 €/m	HE	50 m
ALPEX-26RCB	Ø26/3 (Aluminium 0,50 mm)	10 mm	■	6,262 €/m	HE	50 m

### ALPEX DUO XS RCR



- **Tubo multistrato PE-Xb/Al/PE-HD in rotoli completo di coibentazione termica.**
- *PE-Xb/Al/PE-HD multilayer pipe in coils complete with thermal insulation.*
- **Tuyau multicouche PE-Xb/Al/PE-HD en rouleaux avec isolation thermique.**
- *Verbundrohr PE-Xb/Al/PE-HD in Rollen komplett mit Wärmedämmung.*
- **Tubo multicapa PE-Xb/Al/PE-HD en rollos con aislamiento térmico.**

### FRÄNKISCHE

Code	Size	Insulation thickness	Color	Price	Class	Packaging
ALPEX-16RCR	Ø16/2 (Aluminium 0,20 mm)	6 mm	■	2,173 €/m	HE	50 m
ALPEX-18RCR	Ø18/2 (Aluminium 0,30 mm)	6 mm	■	3,028 €/m	HE	50 m
ALPEX-20RCR	Ø20/2 (Aluminium 0,30 mm)	6 mm	■	3,10 €/m	HE	50 m
ALPEX-26RCR	Ø26/3 (Aluminium 0,50 mm)	10 mm	■	6,262 €/m	HE	50 m

**IVAR-APEX R**


- **Tubo multistrato PE-Xb/Al/PE-Xb in rotoli.**
- *PE-Xb/Al/PE-Xb multilayer pipe in coils.*
- **Tuyau multicouche PE-Xb/Al/PE-Xb en rouleaux.**
- *Verbundrohr PE-Xb/Al/PE-Xb in Rollen.*
- **Tubo multicapa PE-Xb/Al/PE-Xb en rollos.**

Code	Size	Price	Class	Packaging
I-APEX16R100	Ø16/2 (Aluminium 0,20 mm)	1,349 €/m	HM	100 m
I-APEX16R200	Ø16/2 (Aluminium 0,20 mm)	1,349 €/m	HM	200 m
I-APEX16R400	Ø16/2 (Aluminium 0,20 mm)	1,349 €/m	HM	400 m
I-APEX18R50	Ø18/2 (Aluminium 0,20 mm)	2,039 €/m	HM	50 m
I-APEX18R100	Ø18/2 (Aluminium 0,20 mm)	2,039 €/m	HM	100 m
I-APEX18R200	Ø18/2 (Aluminium 0,20 mm)	2,039 €/m	HM	200 m
I-APEX20R100	Ø20/2 (Aluminium 0,25 mm)	2,091 €/m	HM	100 m
I-APEX25R50	Ø25/2,5 (Aluminium 0,30 mm)	3,976 €/m	HM	50 m
I-APEX26R50	Ø26/3 (Aluminium 0,30 mm)	4,192 €/m	HM	50 m
I-APEX32R50	Ø32/3 (Aluminium 0,40 mm)	6,015 €/m	HM	50 m

**IVAR-APEX RCB**


- **Tubo multistrato PE-Xb/Al/PE-Xb in rotoli completo di coibentazione termica.**
- *PE-Xb/Al/PE-Xb multilayer pipe in coils complete with thermal insulation.*
- **Tuyau multicouche PE-Xb/Al/PE-Xb en rouleaux avec isolation thermique.**
- *Verbundrohr PE-Xb/Al/PE-Xb in Rollen komplett mit Wärmedämmung.*
- **Tubo multicapa PE-Xb/Al/PE-Xb en rollos con aislamiento térmico.**

Code	Size	Insulation thickness	Color	Price	Class	Packaging
I-APEX16RCB50	Ø16/2 (Aluminium 0,20 mm)	6 mm	■	1,875 €/m	HO	50 m
I-APEX20RCB50	Ø20/2 (Aluminium 0,25 mm)	6 mm	■	2,884 €/m	HO	50 m
I-APEX25RCB25	Ø25/2,5 (Aluminium 0,30 mm)	10 mm	■	5,449 €/m	HO	25 m
I-APEX26RCB50	Ø26/3 (Aluminium 0,30 mm)	10 mm	■	5,686 €/m	HO	50 m
I-APEX32RCB25	Ø32/3 (Aluminium 0,40 mm)	10 mm	■	8,147 €/m	HO	25 m

**IVAR-APEX RCR**


- **Tubo multistrato PE-Xb/Al/PE-Xb in rotoli completo di coibentazione termica.**
- *PE-Xb/Al/PE-Xb multilayer pipe in coils complete with thermal insulation.*
- **Tuyau multicouche PE-Xb/Al/PE-Xb en rouleaux avec isolation thermique.**
- *Verbundrohr PE-Xb/Al/PE-Xb in Rollen komplett mit Wärmedämmung.*
- **Tubo multicapa PE-Xb/Al/PE-Xb en rollos con aislamiento térmico.**

Code	Size	Insulation thickness	Color	Price	Class	Packaging
I-APEX16RCR50	Ø16/2 (Aluminium 0,20 mm)	6 mm	■	1,875 €/m	HO	50 m
I-APEX20RCR50	Ø20/2 (Aluminium 0,25 mm)	6 mm	■	2,884 €/m	HO	50 m
I-APEX25RCR25	Ø25/2,5 (Aluminium 0,30 mm)	10 mm	■	5,449 €/m	HO	25 m
I-APEX26RCR50	Ø26/3 (Aluminium 0,30 mm)	10 mm	■	5,686 €/m	HO	50 m
I-APEX32RCR25	Ø32/3 (Aluminium 0,40 mm)	10 mm	■	8,147 €/m	HO	25 m

### ALPEX RCFG



- **Tubo multistrato PE-Xb/Al/PE-HD in rotoli completo di coibentazione termica per raffreddamento.**
- *PE-Xb/Al/PE-HD multilayer pipe in coils complete with thermal insulation for cooling.*
- **Tuyau multicouche PE-Xb/Al/PE-HD en rouleaux avec isolation thermique pour refroidissement.**
- *Verbundrohr PE-Xb/Al/PE-HD in Rollen komplett mit Wärmedämmung für Kühlung.*
- **Tubo multicapa PE-Xb/Al/PE-HD en rollos con aislamiento térmico para enfriamiento.**

### FRÄNKISCHE

Code	Size	Insulation thickness	Color	Price	Class	Packaging
ALPEX-16RCFG	Ø16/2 (Aluminium 0,20 mm)	13 mm	■	4,357 €/m	HE	50 m
ALPEX-20RCFG	Ø20/2 (Aluminium 0,30 mm)	13 mm	■	5,171 €/m	HE	50 m
ALPEX-26RCFG	Ø26/3 (Aluminium 0,50 mm)	13 mm	■	9,208 €/m	HE	25 m
ALPEX-32RCFG	Ø32/3 (Aluminium 0,60 mm)	13 mm	■	11,011 €/m	HE	25 m

### IVAR-APEX RCF



- **Tubo multistrato PE-Xb/Al/PE-Xb in rotoli completo di coibentazione termica per raffreddamento.**
- *PE-Xb/Al/PE-Xb multilayer pipe in coils complete with thermal insulation for cooling.*
- **Tuyau multicouche PE-Xb/Al/PE-Xb en rouleaux avec isolation thermique pour refroidissement.**
- *Verbundrohr PE-Xb/Al/PE-Xb in Rollen komplett mit Wärmedämmung für Kühlung.*
- **Tubo multicapa PE-Xb/Al/PE-Xb en rollos con aislamiento térmico para enfriamiento.**

Code	Size	Insulation thickness	Color	Price	Class	Packaging
I-APEX16RCF50	Ø16/2 (Aluminium 0,20 mm)	13 mm	□	3,142 €/m	HO	50 m
I-APEX20RCF50	Ø20/2 (Aluminium 0,25 mm)	13 mm	□	4,172 €/m	HO	50 m
I-APEX26RCF50	Ø26/3 (Aluminium 0,30 mm)	13 mm	□	6,757 €/m	HO	50 m
I-APEX32RCF25	Ø32/3 (Aluminium 0,40 mm)	13 mm	□	10,393 €/m	HO	25 m

**PE-RT**

PE-RT (Polyethylene of Raised Temperature Resistance) is a polyethylene with improved mechanical resistance to high temperatures. Normal polyethylene has its polymer chains organised in a lamellar crystalline structure. By mixing a suitably different comonomer (Octene- 1) with polyethylene, it is possible to stimulate the formation of amorphous polymeric segments connecting the crystals of the material. These segments, called tie chains, show extensibility and mobility properties and improve the hardness of polyethylene and its resistance to high temperatures. Therefore PE-RT manufacture requires no cross-linking and for this reason the material remains thermoplastic, flexible and easy to join by fusion. Like PE-X, PE-RT also needs an EVOH barrier to prevent the diffusion of oxygen inside heating and cooling systems. PE-RT is often preferred for the implementation of radiant heating systems, where for a medium sized residential unit several hundred metres can be used. This is both because of its high flexibility, which facilitates its bending, and for the simpler industrial process necessary for its manufacture, which makes PE-RT economically competitive.

**PLUS**

- **Particularly flexible**
- **Good strength characteristics at high temperatures**
- **Economically competitive**

**IVAR PE-RT 5**


- **Tubo PE-RT in rotoli con barriera EVOH a 5 strati.**
- *PE-RT pipe in coils with 5-layer EVOH barrier.*
- **Tuyau PE-RT en rouleaux avec barrière EVOH à 5 couches.**
- *PE-RT-Rohr mit EVOH-Barriere in Rollen, fünfschichtig.*
- **Tubo PE-RT en rollos con barrera EVOH de 5 capas.**

Code	Size	Price	Class	Packaging
I-PERT5L16R12	Ø16/2	1,092 €/m	HN	120 m
I-PERT5L16R25	Ø16/2	1,092 €/m	HN	250 m
I-PERT5L16R60	Ø16/2	1,092 €/m	HN	600 m
I-PERT5L17R25	Ø17/2	1,133 €/m	HN	250 m
I-PERT5L17R60	Ø17/2	1,133 €/m	HN	600 m
I-PERT5L20R25	Ø20/2	1,566 €/m	HN	250 m
I-PERT5L20R50	Ø20/2	1,566 €/m	HN	500 m

**HK PE-RT**


- **Tubo in polietilene a resistenza termica maggiorata in rotoli.**
- *High thermal resistance polyethylene pipe in coils.*
- **Tuyau en polyéthylène avec résistance thermique augmenté en rouleaux.**
- *Polyethylenrohr mit thermischem Widerstand erhöht in Rollen.*
- **Tubo de polietileno con resistencia térmica aumentada en rollos.**

Code	Size	Price	Class	Packaging
HK-PERT10R2	Ø10/1,3	0,979 €/m	HH	200 m
HK-PERT10R10	Ø10/1,3	0,979 €/m	HH	1000 m

### OXYGEN BARRIER PEX

Cross-linked polyethylene is typically made of high density polyethylene (HDPE) using an industrial process called cross-linking. Through this process, which creates strong bonds among the polymer chains, polyethylene is transformed from a thermoplastic to a thermoset, its resistance to chemical agents and mechanical stress is greatly improved and, above all, its resistance to ageing (i.e. its ability to maintain its properties stable over time) is improved.

From an industrial point of view, cross-linking is achieved by different methods, known by the names:

- Type A cross-linking (chemical method using peroxides)
- Type B cross-linking (chemical method using silanes)
- Type C cross-linking (physical method using electron beam)
- Type D cross-linking (chemical method using nitrogen compounds)

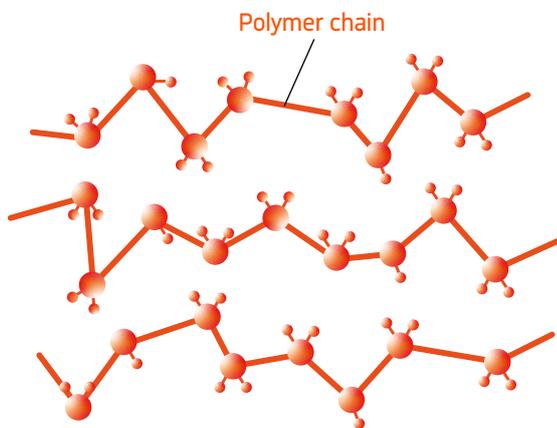
Type D cross-linking is not used for plumbing and heating applications, while Types A, B, and C polyethylene cross-linking, which are called PE-Xa, PE-Xb and PE-Xc, are very common.

Current standards define different minimum levels of cross-linking for different cross-linked types, especially for reasons linked to manufacturing processes. However, this does not substantially change the final result, which is still cross-linked polyethylene. It makes no sense to compare cross-linking methods defining one as "better" or "worse" than another.

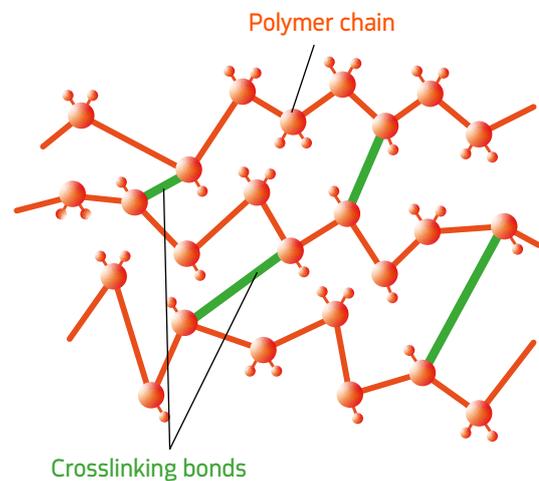
All plastics have a certain gas permeability, including oxygen. Therefore, a certain amount of oxygen can pass through the walls of PE-X pipes over time. For this reason, in closed loop systems such as heating and cooling, they must include an EVOH (Ethylene Vinyl Alcohol) barrier, capable of significantly reducing the passage of oxygen molecules and thereby preventing their spread in the system. This results in cleaner circulating water (reducing the formation of algae) and a lower risk of corrosion of any ferrous parts of the system.

Therefore, all PE-X pipes proposed by IVAR have an EVOH oxygen barrier.

## PEHD



## PE-X



### ⊕ PLUS

- **Material with low surface roughness, reduces the risk of scale**
- **Highly resistant to chemical agents and especially to chlorinated water**
- **High mechanical strength at both high and low temperatures**

**FF-Therm PE-Xa**


- Tubo FF-Therm in polietilene reticolato PE-Xa in rotoli e barriera anti ossigeno (EVOH / DIN4726).
- FF-Therm pipe made of cross-linked polyethylene PE-Xa in coils and anti-oxygen barrier (EVOH / DIN4726).
- Tuyau FF-Therm en polyéthylène réticulé PE-Xa en rouleaux et barrière anti-oxygène (EVOH / DIN4726).
- FF-Therm-Rohr aus vernetztem Polyethylen PE-Xa in Rollen und Anti-Sauerstoff-Barriere (EVOH / DIN4726).
- Tubo FF-Therm de polietileno reticulado PE-Xa con barrera de oxígeno (EVOH / DIN4726) en rollos.


**FRÄNKISCHE**

Code	Size	Price	Class	Packaging
FF-PEXA16R1	Ø16/2	1,432 €/m	HH	120 m
FF-PEXA16R2	Ø16/2	1,432 €/m	HH	200 m
FF-PEXA16R6	Ø16/2	1,432 €/m	HH	600 m
FF-PEXA17R1	Ø17/2	1,432 €/m	HH	120 m
FF-PEXA17R25	Ø17/2	1,432 €/m	HH	250 m
FF-PEXA17R6	Ø17/2	1,432 €/m	HH	600 m
FF-PEXA18R2	Ø18/2	1,792 €/m	HH	200 m
FF-PEXA18R6	Ø18/2	1,792 €/m	HH	600 m
FF-PEXA20R2	Ø20/2	1,906 €/m	HH	200 m
FF-PEXA20R25	Ø20/2	1,906 €/m	HH	250 m
FF-PEXA20R5	Ø20/2	1,906 €/m	HH	500 m
FF-PEXA25R2	Ø25/2,3	2,843 €/m	HH	200 m
FF-PEXA25R45	Ø25/2,3	2,843 €/m	HH	450 m

**IVAR PE-Xa 3**


- Tubo in polietilene reticolato PE-Xa in rotoli con barriera EVOH a 3 strati.
- Pipe made of cross-linked polyethylene PE-Xa in coils with 3-layer EVOH barrier.
- Tuyau en polyéthylène réticulé PE-Xa en rouleaux avec barrière EVOH à 3 couches.
- Rohr aus vernetztem Polyethylen PE-Xa in Rollen mit EVOH-Barriere, dreischichtig.
- Tubo de polietileno reticulado PE-Xa en rollos con barrera EVOH de 3 capas.

Code	Size	Price	Class	Packaging
I-PEXA3L16R12	Ø16/2	1,236 €/m	HN	120 m
I-PEXA3L16R25	Ø16/2	1,236 €/m	HN	250 m
I-PEXA3L16R60	Ø16/2	1,236 €/m	HN	600 m
I-PEXA3L17R25	Ø17/2	1,288 €/m	HN	250 m
I-PEXA3L17R60	Ø17/2	1,288 €/m	HN	600 m
I-PEXA3L20R25	Ø20/2	1,648 €/m	HN	250 m
I-PEXA3L20R50	Ø20/2	1,648 €/m	HN	500 m

# PRESS FITTINGS M•P

MULTI-PRESS is the IVAR press fitting designed and tested for use with 7 different crimping profiles (BE, B, TH, R, H, F and U). Its body is made of CW617N. Also available upon request is the version with a lead-free copper-silicon alloy or Cuphin® CW724R body, (add the suffix "C" to the code), which conforms to the positive lists of metal materials suitable for applications in contact with drinking water (4 MS Common Composition List and the UBA List defined by the German Federal Environment Agency).

The geometry of the fitting, which was designed to provide optimal coupling between pipe and fitting after pressing and the windows on the bushing flange used to verify that the pipe and two peroxide EPDM O-rings on each end have been inserted properly are all details that help to ensure the applicability and reliability of the product.

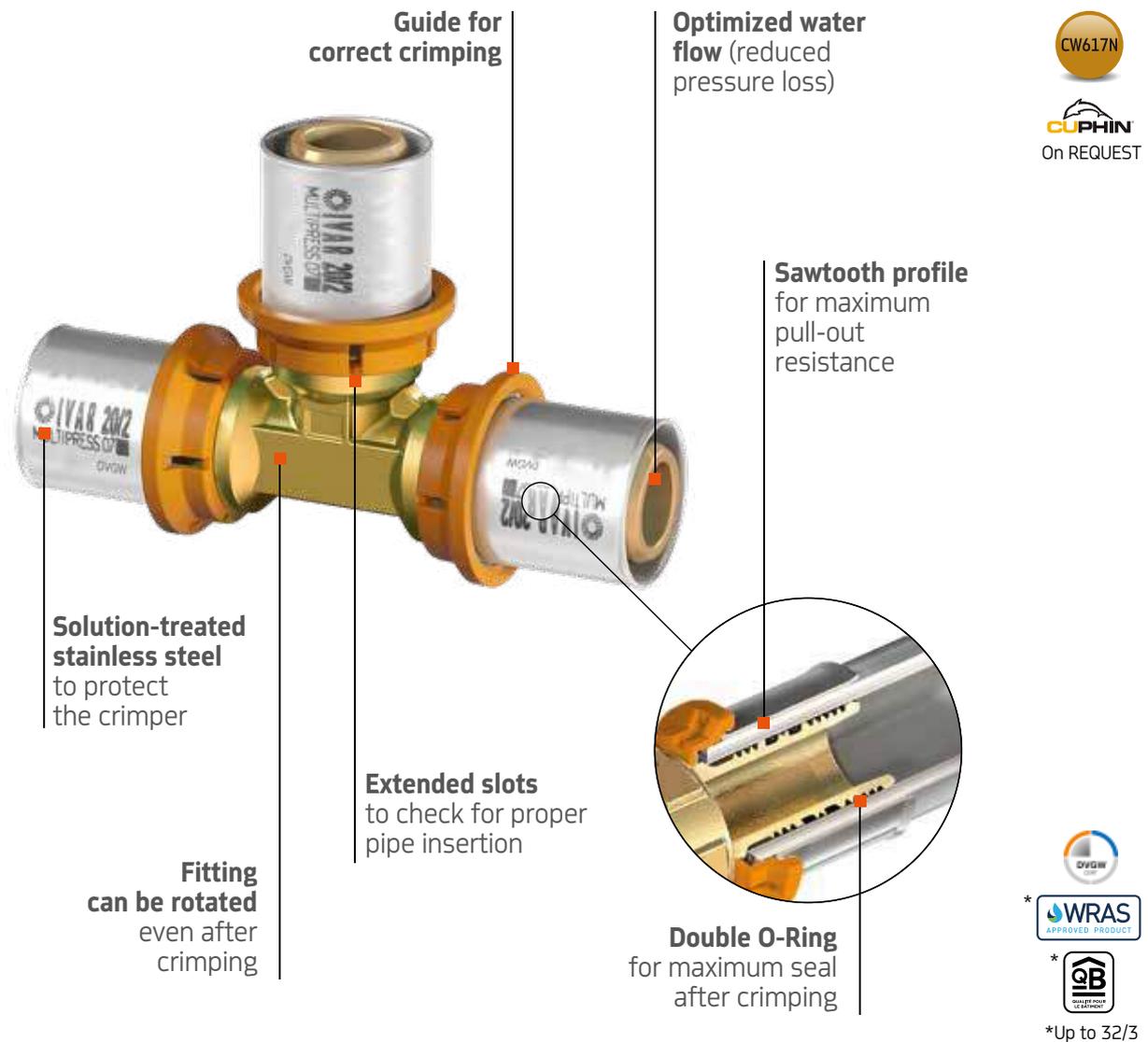
Available in a broad range of configurations and sizes from 16/2 to 63/4.5.

## Technical specifications:

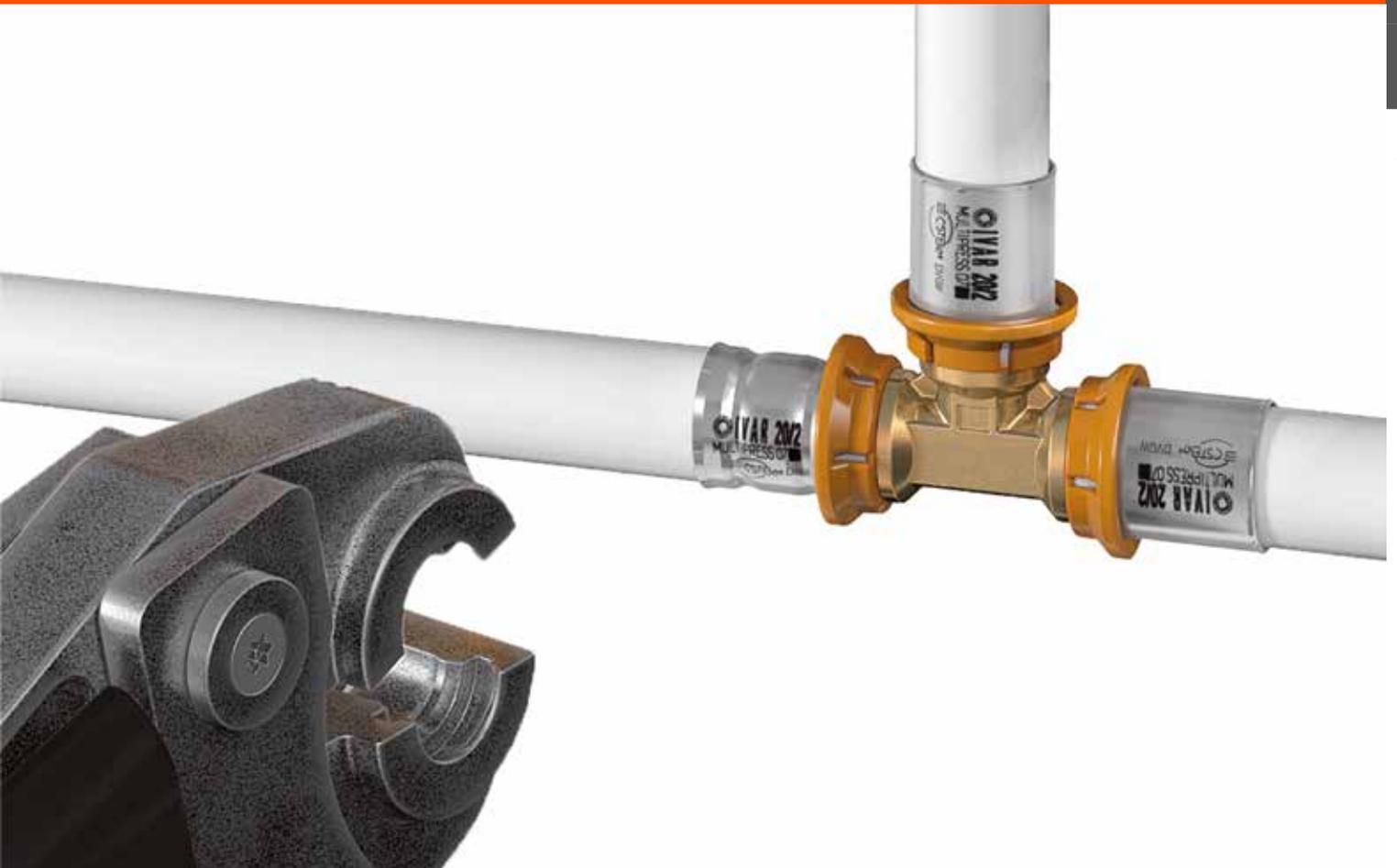
Maximum operating temperature: 120 °C

Maximum operating static pressure: 10 bar

## PLUS



- **Compatible with all TH - H/R - U - B/BE - F crimping profiles**
- **Complete range of figures**
- **Ø from 16 to 63 mm**



Ø (mm)	16	18	20	25	26	32	40	50	63
Spessore Thickness Épaisseur Dicke Espesor (mm)	2 2,25	2	2 2,25 2,5	2,5	3	3	3,5	4	4,5
 BE**	■	-	■	-	■	■	-	-	-
B***	■	■	■	-	■	■	-	-	-
F***	■	■	■	-	■	■	■	■	■
R**	■	■	■	■	■	■	-	-	-
H***	■	■	■	■	■	■	■	-	-
TH*	■	■	■	■	■	■	■	■	■
U*	■	■	■	■	-	■	■	■	■

\* Rothenberger/Rems

\*\* Rothenberger

\*\*\* Rems

### MP 5700 R



- Raccordo diritto ridotto.
- Straight reduced fitting.
- Raccord droit réduit.
- Reduzierter Durchgangs-Verbinder.
- Racor recto reducido.

Code	Size	Price	Class	Packaging
510040MP	16/2 x 18/2	5,16 €	IM	40 / 160
510008MP	16/2 x 20/2	5,01 €	IM	40 / 160
512103MP	16/2 x 20/2,5	5,16 €	IM	40 / 160
510135MP	16/2 x 25/2,5	6,76 €	IM	20 / 80
510009MP	16/2 x 26/3	6,76 €	IM	20 / 80
510024MP	16/2 x 32/3	8,95 €	IM	15 / 60
511031MP	16/2,25 x 20/2,25	5,16 €	IM	40 / 160
511032MP	16/2,25 x 20/2,5	5,16 €	IM	40 / 160
511033MP	16/2,25 x 25/2,5	6,76 €	IM	20 / 80
510039MP	18/2 x 20/2	5,43 €	IM	40 / 160
510041MP	18/2 x 26/3	7,03 €	IM	20 / 80
510200MP	20/2 x 20/2,5	5,43 €	IM	40 / 160
510137MP	20/2 x 25/2,5	7,03 €	IM	20 / 80
510010MP	20/2 x 26/3	7,03 €	IM	20 / 80
510023MP	20/2 x 32/3	9,53 €	IM	15 / 60
511035MP	20/2,25 x 25/2,5	7,03 €	IM	20 / 80
511036MP	20/2,25 x 26/3	7,03 €	IM	20 / 80
511038MP	20/2,5 x 25/2,5	7,03 €	IM	20 / 80
511039MP	20/2,5 x 26/3	7,03 €	IM	20 / 80
510181MP	25/2,5 x 26/3	8,09 €	IM	20 / 80
510138MP	25/2,5 x 32/3	10,26 €	IM	15 / 60
510019MP	26/3 x 32/3	10,26 €	IM	15 / 60
510129	20/2 x 40/3,5	21,93 €	IB	40
510139	25/2,5 x 40/3,5	23,61 €	IB	40
510108	26/3 x 40/3,5	23,61 €	IB	40
510173	25/2,5 x 50/4	32,09 €	IB	30
510128	26/3 x 50/4	32,09 €	IB	30
510031	32/3 x 40/3,5	23,61 €	IB	40
510103	32/3 x 50/4	32,09 €	IB	30
510029	40/3,5 x 50/4	41,50 €	IB	25
510054	40/3,5 x 63/4,5	66,49 €	IB	15
510055	50/4 x 63/4,5	66,49 €	IB	15

### MP 5700



- Raccordo diritto.
- Straight fitting.
- Raccord droit.
- Kupplung.
- Racor recto.

Code	Size	Price	Class	Packaging
510005MP	16/2 x 16/2	4,15 €	IM	40 / 160
511030MP	16/2,25 x 16/2,25	4,27 €	IM	40 / 160
510038MP	18/2 x 18/2	5,43 €	IM	40 / 160
510006MP	20/2 x 20/2	5,43 €	IM	40 / 160
511034MP	20/2,25 x 20/2,25	5,43 €	IM	40 / 160
511037MP	20/2,5 x 20/2,5	5,43 €	IM	40 / 160
510134MP	25/2,5 x 25/2,5	8,09 €	IM	20 / 80
510007MP	26/3 x 26/3	8,09 €	IM	20 / 80
510020MP	32/3 x 32/3	11,98 €	IM	15 / 60
510030	40/3,5 x 40/3,5	26,76 €	IB	40
510028	50/4 x 50/4	41,50 €	IB	25
510053	63/4,5 x 63/4,5	67,75 €	IB	15

### MP 5704



- Raccordo a 45°.
- 45° fitting.
- Raccord à 45°.
- Verbindungsstück 45°.
- Racor a 45°.

Code	Size	Price	Class	Packaging
510169MP	25/2,5 x 25/2,5	12,02 €	IM	15 / 60
510099MP	26/3 x 26/3	12,02 €	IM	15 / 60
510100MP	32/3 x 32/3	13,85 €	IM	10 / 40
510101	40/3,5 x 40/3,5	48,63 €	IB	25
510102	50/4 x 50/4	62,38 €	IB	12
511093	63/4,5 x 63/4,5	100,26 €	IB	7



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**MP 5710**


- Raccordo ad angolo.
- Angle fitting.
- Raccord à angle.
- Winkel-Kupplung.
- Racor codo.

Code	Size	Price	Class	Packaging
511009MP	16/2 x 16/2	4,83 €	IM	30 / 120
511053MP	16/2,25 x 16/2,25	4,83 €	IM	30 / 120
511018MP	18/2 x 18/2	6,00 €	IM	30 / 120
511010MP	20/2 x 20/2	6,00 €	IM	30 / 120
511054MP	20/2,25 x 20/2,25	6,00 €	IM	30 / 120
511055MP	20/2,5 x 20/2,5	6,00 €	IM	30 / 120
510140MP	25/2,5 x 25/2,5	8,98 €	IM	15 / 60
511011MP	26/3 x 26/3	8,98 €	IM	15 / 60
511012MP	32/3 x 32/3	13,38 €	IM	10 / 40
510035	40/3,5 x 40/3,5	31,32 €	IB	20
510036	50/4 x 50/4	48,43 €	IB	10
510056	63/4,5 x 63/4,5	72,49 €	IB	7

**MP 5720**


- Raccordo a T.
- Tee fitting.
- Raccord à T.
- T-Stück.
- Racor en Te.

Code	Size	Price	Class	Packaging
512001MP	16/2 x 16/2 x 16/2	6,18 €	IM	20 / 80
511067MP	16/2,25 x 16/2,25 x 16/2,25	6,18 €	IM	20 / 80
512054MP	18/2 x 18/2 x 18/2	8,66 €	IM	16 / 64
512002MP	20/2 x 20/2 x 20/2	8,66 €	IM	16 / 64
511070MP	20/2,25 x 20/2,25 x 20/2,25	8,66 €	IM	16 / 64
510143MP	25/2,5 x 25/2,5 x 25/2,5	13,29 €	IM	10 / 40
512003MP	26/3 x 26/3 x 26/3	13,29 €	IM	10 / 40
512020MP	32/3 x 32/3 x 32/3	21,24 €	IM	8 / 32
512035	40/3,5 x 40/3,5 x 40/3,5	47,79 €	IB	12
512036	50/4 x 50/4 x 50/4	76,80 €	IB	7
510058	63/4,5 x 63/4,5 x 63/4,5	120,38 €	IB	4

**MP 5720 RLL**


- Raccordo a T con attacchi laterali ridotti.
- Tee fitting with reduced side connections.
- Raccord à T avec connexions latérales réduites.
- T-Stück mit reduzierten seitlichen Anschlüssen.
- Racor en Te con conexiones laterales reducidas.

Code	Size	Price	Class	Packaging
512056MP	16/2 x 18/2 x 16/2	8,09 €	IM	16 / 64
512013MP	16/2 x 20/2 x 16/2	8,09 €	IM	16 / 64
512061MP	18/2 x 26/3 x 18/2	12,22 €	IM	10 / 40
510147MP	20/2 x 25/2,5 x 20/2	12,22 €	IM	12 / 48
512014MP	20/2 x 26/3 x 20/2	12,22 €	IM	12 / 48
512051MP	20/2 x 32/3 x 20/2	18,59 €	IM	8 / 32
510179MP	25/2,5 x 32/3 x 25/2,5	19,31 €	IM	8 / 32
512019MP	26/3 x 32/3 x 26/3	19,31 €	IM	8 / 32
510120	32/3 x 40/3,5 x 32/3	44,45 €	IB	16
510127	40/3,5 x 50/4 x 40/3,5	73,75 €	IB	7
510122	50/4 x 63/4,5 x 50/4	111,01 €	IB	6

**MP 5720 RCL**


- Raccordo a T con attacco centrale e laterale ridotti.
- Tee fitting with reduced central and side connection.
- Raccord à T avec connexion centrale et latérale réduites.
- T-Stück mit reduziertem Mittel- und Seitenanschluss.
- Racor en Te con conexión central y lateral reducida.

Code	Size	Price	Class	Packaging
512058MP	16/2 x 16/2 x 18/2	8,09 €	IM	16 / 64
512009MP	16/2 x 16/2 x 20/2	8,09 €	IM	16 / 64
511068MP	16/2 x 16/2 x 20/2,25	8,09 €	IM	16 / 64
512101MP	16/2 x 16/2 x 20/2,5	8,09 €	IM	16 / 64
512064MP	18/2 x 18/2 x 20/2	8,66 €	IM	16 / 64
512062MP	18/2 x 18/2 x 26/3	12,22 €	IM	10 / 40
510154MP	20/2 x 20/2 x 25/2,5	12,22 €	IM	12 / 48
512012MP	20/2 x 20/2 x 26/3	12,22 €	IM	12 / 48
512021MP	20/2 x 20/2 x 32/3	18,59 €	IM	8 / 32
510155MP	25/2,5 x 25/2,5 x 32/3	19,31 €	IM	8 / 32
512017MP	26/3 x 26/3 x 32/3	19,31 €	IM	8 / 32
510156	25/2,5 x 25/2,5 x 40/3,5	44,45 €	IB	16
510116	26/3 x 26/3 x 40/3,5	44,45 €	IB	16
510118	32/3 x 32/3 x 40/3,5	44,45 €	IB	16
510125	40/3,5 x 40/3,5 x 50/4	73,75 €	IB	7
510121	50/4 x 50/4 x 63/4,5	111,01 €	IB	6



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### ■ MP 5720 RC



- Raccordo a T con attacco centrale ridotto.
- Tee fitting with reduced central connection.
- Raccord à T avec connexion centrale réduite.
- T-Stück mit reduziertem Zentralanschluss.
- Racor en Te con conexión central reducida.

Code	Size	Price	Class	Packaging
512055MP	18/2 x 16/2 x 18/2	8,39 €	IM	16 / 64
512004MP	20/2 x 16/2 x 20/2	8,39 €	IM	16 / 64
510182MP	20/2,25 x 16/2 x 20/2,25	8,39 €	IM	16 / 64
511071MP	20/2,5 x 16/2 x 20/2,5	8,39 €	IM	16 / 64
511072MP	20/2,5 x 16/2,25 x 20/2,5	8,39 €	IM	16 / 64
512057MP	20/2 x 18/2 x 20/2	8,66 €	IM	16 / 64
510144MP	25/2,5 x 16/2 x 25/2,5	12,22 €	IM	12 / 48
511074MP	25/2,5 x 16/2,25 x 25/2,5	12,22 €	IM	12 / 48
510146MP	25/2,5 x 20/2 x 25/2,5	12,51 €	IM	12 / 48
511075MP	25/2,5 x 20/2,25 x 25/2,5	12,51 €	IM	12 / 48
511076MP	25/2,5 x 20/2,5 x 25/2,5	12,51 €	IM	12 / 48
512005MP	26/3 x 16/2 x 26/3	12,22 €	IM	12 / 48
511077MP	26/3 x 16/2,25 x 26/3	12,22 €	IM	12 / 48
512059MP	26/3 x 18/2 x 26/3	12,51 €	IM	12 / 48
512006MP	26/3 x 20/2 x 26/3	12,51 €	IM	12 / 48
511078MP	26/3 x 20/2,25 x 26/3	12,51 €	IM	12 / 48
512015MP	32/3 x 16/2 x 32/3	17,46 €	IM	8 / 32
511080MP	32/3 x 16/2,25 x 32/3	17,46 €	IM	8 / 32
512060MP	32/3 x 18/2 x 32/3	19,40 €	IM	8 / 32
512016MP	32/3 x 20/2 x 32/3	19,40 €	IM	8 / 32
511081MP	32/3 x 20/2,25 x 32/3	19,40 €	IM	8 / 32
511082MP	32/3 x 20/2,5 x 32/3	19,40 €	IM	8 / 32
510174MP	32/3 x 25/2,5 x 32/3	20,37 €	IM	8 / 32
512018MP	32/3 x 26/3 x 32/3	20,37 €	IM	8 / 32
512089	40/3,5 x 20/2 x 40/3,5	47,79 €	IB	15
510175	40/3,5 x 25/2,5 x 40/3,5	47,79 €	IB	15
512090	40/3,5 x 26/3 x 40/3,5	47,79 €	IB	15
512037	40/3,5 x 32/3 x 40/3,5	47,79 €	IB	14
512091	50/4 x 20/2 x 50/4	73,75 €	IB	10
510176	50/4 x 25/2,5 x 50/4	73,75 €	IB	10
512092	50/4 x 26/3 x 50/4	73,75 €	IB	10
512039	50/4 x 32/3 x 50/4	73,86 €	IB	10
512038	50/4 x 40/3,5 x 50/4	76,51 €	IB	7
510177	63/4,5 x 25/2,5 x 63/4,5	81,45 €	IB	6
512093	63/4,5 x 26/3 x 63/4,5	81,45 €	IB	6
512094	63/4,5 x 32/3 x 63/4,5	81,45 €	IB	6
512095	63/4,5 x 40/3,5 x 63/4,5	81,45 €	IB	6
510059	63/4,5 x 50/4 x 63/4,5	118,48 €	IB	5

### ■ MP 5720 RL



- Raccordo a T con attacco laterale ridotto.
- Tee fitting with reduced side connection.
- Raccord à T avec connexion latérale réduite.
- T-Stück mit reduziertem seitlichen Anschluss.
- Racor en Te con conexión lateral reducida.

Code	Size	Price	Class	Packaging
512007MP	20/2 x 20/2 x 16/2	8,39 €	IM	16 / 64
510148MP	25/2,5 x 25/2,5 x 16/2	12,22 €	IM	12 / 48
510150MP	25/2,5 x 25/2,5 x 20/2	12,50 €	IM	12 / 48
512048MP	26/3 x 26/3 x 16/2	12,22 €	IM	12 / 48
512063MP	26/3 x 26/3 x 18/2	12,50 €	IM	10 / 40
512008MP	26/3 x 26/3 x 20/2	12,50 €	IM	12 / 48
512068MP	32/3 x 32/3 x 16/2	17,46 €	IM	8 / 32
512052MP	32/3 x 32/3 x 20/2	19,40 €	IM	8 / 32
510151MP	32/3 x 32/3 x 25/2,5	20,37 €	IM	8 / 32
512053MP	32/3 x 32/3 x 26/3	20,37 €	IM	8 / 32
510152	40/3,5 x 40/3,5 x 25/2,5	47,79 €	IB	16
510117	40/3,5 x 40/3,5 x 26/3	47,79 €	IB	16
510119	40/3,5 x 40/3,5 x 32/3	47,79 €	IB	16
510124	50/4 x 50/4 x 32/3	73,75 €	IB	10
510126	50/4 x 50/4 x 40/3,5	75,45 €	IB	7
510123	63/4,5 x 63/4,5 x 50/4	118,48 €	IB	6

### ■ MP 5720 RR



- Raccordo a T con attacchi a doppia riduzione.
- Tee fitting with double reduction connections.
- Raccord à T avec des connexions à double réduction.
- T-Stück mit Doppel Reduktion Anschlüssen.
- Racor en Te con conexiones de doble reducción.

Code	Size	Price	Class	Packaging
510157MP	25/2,5 x 16/2 x 20/2	11,08 €	IM	12 / 48
510158MP	25/2,5 x 20/2 x 16/2	11,08 €	IM	12 / 48
510159MP	32/3 x 20/2 x 25/2,5	18,70 €	IM	8 / 32
510160MP	32/3 x 25/2,5 x 20/2	18,70 €	IM	8 / 32
512010MP	26/3 x 16/2 x 20/2	11,08 €	IM	12 / 48
512011MP	26/3 x 20/2 x 16/2	11,08 €	IM	12 / 48
512050MP	32/3 x 20/2 x 26/3	18,70 €	IM	8 / 32
512024MP	32/3 x 26/3 x 20/2	18,70 €	IM	8 / 32

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**MP 5608**


- Raccordo diritto maschio.
- Straight male fitting.
- Raccord droit mâle.
- Durchgang AG Verbinder.
- Racor recto macho.

Code	Size	Price	Class	Packaging
510084MP	3/8" M x 16/2	4,43 €	IM	50 / 200
510001MP	1/2" M x 16/2	3,21 €	IM	40 / 160
511045MP	1/2" M x 16/2,25	3,21 €	IM	40 / 160
510105MP	3/4" M x 16/2	5,06 €	IM	30 / 120
510042MP	1/2" M x 18/2	3,72 €	IM	40 / 160
510043MP	3/4" M x 18/2	4,73 €	IM	30 / 120
510002MP	1/2" M x 20/2	3,72 €	IM	40 / 160
511046MP	1/2" M x 20/2,25	3,72 €	IM	40 / 160
511047MP	1/2" M x 20/2,5	3,72 €	IM	40 / 160
510003MP	3/4" M x 20/2	4,73 €	IM	30 / 120
511048MP	3/4" M x 20/2,25	4,73 €	IM	30 / 120
511049MP	3/4" M x 20/2,5	4,73 €	IM	30 / 120
510130MP	3/4" M x 25/2,5	6,16 €	IM	30 / 120
510131MP	1" M x 25/2,5	7,71 €	IM	20 / 80
510004MP	3/4" M x 26/3	6,16 €	IM	30 / 120
510044MP	1" M x 26/3	7,71 €	IM	20 / 80
510021MP	1" M x 32/3	9,30 €	IM	20 / 80
510106MP	1"1/4 M x 32/3	20,13 €	IM	10 / 40
510032	1"1/4 M x 40/3,5	24,61 €	IB	40
510027	1"1/2 M x 50/4	33,97 €	IB	25
510052	2" M x 63/4,5	61,49 €	IB	16

**MP 5609**


- Raccordo diritto maschio a tenuta morbida.
- Straight male soft seal fitting.
- Raccord droit mâle à étanchéité souple.
- Durchgang AG Verbinder mit O-Ring.
- Racor recto macho con junta blanda.

Code	Size	Price	Class	Packaging
510048MP	1/2" M O-ring x 16/2	4,00 €	IM	40 / 160
511050MP	1/2" M O-ring x 16/2,25	4,00 €	IM	40 / 160
510050MP	1/2" M O-ring x 20/2	4,37 €	IM	40 / 160
511051MP	1/2" M O-ring x 20/2,25	4,37 €	IM	40 / 160

**MP 5711**


- Raccordo ad angolo maschio.
- Male angle fitting.
- Raccord à angle mâle.
- AG Winkel-Verbinder.
- Racor codo macho.

Code	Size	Price	Class	Packaging
511123MP	3/8" M x 16/2	4,12 €	IM	40 / 160
511001MP	1/2" M x 16/2	4,01 €	IM	40 / 160
511062MP	1/2" M x 16/2,25	4,01 €	IM	40 / 160
511021MP	1/2" M x 18/2	4,78 €	IM	30 / 120
511002MP	1/2" M x 20/2	4,78 €	IM	30 / 120
511063MP	1/2" M x 20/2,25	4,78 €	IM	30 / 120
511064MP	1/2" M x 20/2,5	4,78 €	IM	30 / 120
511003MP	3/4" M x 20/2	6,01 €	IM	20 / 80
511065MP	3/4" M x 20/2,25	6,01 €	IM	20 / 80
511066MP	3/4" x 20/2,5	6,01 €	IM	20 / 80
510141MP	3/4" M x 25/2,5	7,15 €	IM	20 / 80
511004MP	3/4" M x 26/3	7,15 €	IM	20 / 80
510229MP	1" M x 25/2,5	11,08 €	IM	15 / 120
511113MP	1" M x 26/3	11,08 €	IM	10 / 40
511013MP	1" M x 32/3	12,11 €	IM	10 / 40
510033	1"1/4 M x 40/3,5	27,84 €	IB	30
510034	1"1/2 M x 50/4	44,10 €	IB	15
510057	2" M x 63/4,5	67,03 €	IB	10

**MP 5721**


- Raccordo a T maschio.
- Male tee fitting.
- Raccord à T mâle.
- AG T-Stück.
- Racor Te rosca macho.

Code	Size	Price	Class	Packaging
512029MP	16/2 x 1/2" M x 16/2	7,29 €	IM	20 / 80
512066MP	18/2 x 1/2" M x 18/2	8,11 €	IM	16 / 64
512030MP	20/2 x 1/2" M x 20/2	8,11 €	IM	16 / 64
511091MP	20/2,25 x 1/2" M x 20/2,25	8,11 €	IM	16 / 64
511092MP	20/2,5 x 1/2" M x 20/2,5	8,11 €	IM	16 / 64
512031MP	16/2 x 3/4" M x 16/2	8,86 €	IM	20 / 80
511101MP	18/2 x 3/4" M x 18/2	9,26 €	IM	16 / 64
512032MP	20/2 x 3/4" M x 20/2	9,26 €	IM	16 / 64
511095MP	20/2,5 x 3/4" M x 20/2,5	9,26 €	IM	16 / 64
510161MP	25/2,5 x 3/4" M x 25/2,5	10,77 €	IM	10 / 40
512067MP	26/3 x 3/4" M x 26/3	10,77 €	IM	10 / 40



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### MP 5613



- Raccordo diritto femmina.
- Straight female fitting.
- Raccord droit femelle.
- Durchgang IG Verbinder.
- Racor recto hembra.

Code	Size	Price	Class	Packaging
510011MP	1/2" F x 16/2	3,59 €	IM	40 / 160
511040MP	1/2" F x 16/2,25	3,59 €	IM	40 / 160
510109MP	3/4" F x 16/2	4,74 €	IM	30 / 120
510045MP	1/2" F x 18/2	4,26 €	IM	40 / 160
510046MP	3/4" F x 18/2	5,05 €	IM	30 / 120
510012MP	1/2" F x 20/2	4,26 €	IM	40 / 160
511041MP	1/2" F x 20/2,25	4,26 €	IM	40 / 160
511042MP	1/2" F x 20/2,5	4,26 €	IM	40 / 160
510013MP	3/4" F x 20/2	5,05 €	IM	30 / 120
511044MP	3/4" F x 20/2,5	5,05 €	IM	30 / 120
510132MP	3/4" F x 25/2,5	5,79 €	IM	20 / 80
510133MP	1" F x 25/2,5	6,90 €	IM	15 / 60
510014MP	3/4" F x 26/3	5,79 €	IM	20 / 80
510047MP	1" F x 26/3	6,90 €	IM	15 / 60
510022MP	1" F x 32/3	8,63 €	IM	15 / 60
510183	1"1/4 F x 40/3,5	31,33 €	IB	40
510184	1"1/2 F x 50/4	43,35 €	IB	25
510185	2" F x 63/4,5	77,46 €	IB	10

### MP 5607



- Raccordo diritto con attacco FASTEC.
- Straight fitting with FASTEC connection.
- Raccord droit avec embout FASTEC.
- Durchgang Verbinder mit FASTEC Anschluß.
- Racor recto con conexión FASTEC.

Code	Size	Price	Class	Packaging
511115MP	FASTEC x 16/2	4,16 €	IM	40 / 160
511116MP	FASTEC x 16/2,25	4,16 €	IM	40 / 160
511117MP	FASTEC x 18/2	4,61 €	IM	40 / 160
511118MP	FASTEC x 20/2	4,61 €	IM	40 / 160
511119MP	FASTEC x 20/2,25	4,61 €	IM	40 / 160
511120MP	FASTEC x 20/2,5	4,61 €	IM	40 / 160
511121MP	FASTEC x 25/2,5	4,78 €	IM	30 / 120
511122MP	FASTEC x 26/3	4,78 €	IM	30 / 120

### MP 5712



- Raccordo ad angolo femmina.
- Female angle fitting.
- Raccord à angle femelle.
- IG Winkel-Verbinder.
- Racor codo hembra.

Code	Size	Price	Class	Packaging
511005MP	1/2" F x 16/2	3,76 €	IM	30 / 120
511056MP	1/2" F x 16/2,25	3,76 €	IM	30 / 120
511019MP	1/2" F x 18/2	4,59 €	IM	30 / 120
511006MP	1/2" F x 20/2	4,59 €	IM	30 / 120
511057MP	1/2" F x 20/2,25	4,59 €	IM	30 / 120
511058MP	1/2" F x 20/2,5	4,59 €	IM	30 / 120
511020MP	3/4" F x 18/2	5,90 €	IM	25 / 100
511007MP	3/4" F x 20/2	5,90 €	IM	25 / 100
511059MP	3/4" F x 20/2,25	5,90 €	IM	25 / 100
511060MP	3/4" F x 20/2,5	5,90 €	IM	25 / 100
510142MP	3/4" F x 25/2,5	7,32 €	IM	20 / 80
511008MP	3/4" F x 26/3	7,32 €	IM	20 / 80
511114MP	1" F x 26/3	11,14 €	IM	10 / 40
511014MP	1" F x 32/3	11,21 €	IM	10 / 40
510186	1"1/4 F x 40/3,5	33,94 €	IB	30
510187	1"1/2 F x 50/4	52,44 €	IB	15
510188	2" F x 63/4,5	86,69 €	IB	10

### MP 5712 L



- Raccordo ad angolo femmina lungo.
- Female angle fitting long.
- Raccord à angle femelle long.
- IG Winkel-Verbinder lang.
- Racor codo hembra largo.

Code	Size	Price	Class	Packaging
511029MP	1/2" F x 16/2	4,21 €	IM	25 / 100
511061MP	1/2" F x 16/2,25	4,21 €	IM	25 / 100
511102MP	1/2" F x 18/2	5,03 €	IM	25 / 100
511103MP	1/2" F x 20/2	5,03 €	IM	25 / 100
511104MP	1/2" F x 20/2,25	5,03 €	IM	25 / 100
511105MP	1/2" F x 20/2,5	5,03 €	IM	25 / 100



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**MP 5722**


- Raccordo a T femmina.
- Female tee fitting.
- Raccord à T femelle.
- IG T-Stück.
- Racor Te rosca hembra.

Code	Size	Price	Class	Packaging
512022MP	16/2 x 1/2" F x 16/2	6,57 €	IM	20 / 80
511083MP	16/2,25 x 1/2" F x 16/2,25	6,57 €	IM	20 / 80
512028MP	16/2 x 3/4" F x 16/2	7,61 €	IM	16 / 64
512065MP	18/2 x 1/2" F x 18/2	7,83 €	IM	16 / 64
512045MP	18/2 x 3/4" F x 18/2	9,42 €	IM	16 / 64
512027MP	20/2 x 1/2" F x 20/2	7,83 €	IM	16 / 64
511084MP	20/2,25 x 1/2" F x 20/2,25	7,83 €	IM	16 / 64
511085MP	20/2,5 x 1/2" F x 20/2,5	7,83 €	IM	16 / 64
512023MP	20/2 x 3/4" F x 20/2	9,42 €	IM	16 / 64
511089MP	20/2,5 x 3/4" F x 20/2,5	9,42 €	IM	16 / 64
510162MP	25/2,5 x 1/2" F x 20/2	11,19 €	IM	12 / 48
510163MP	25/2,5 x 1/2" F x 25/2,5	10,92 €	IM	12 / 48
510164MP	25/2,5 x 3/4" F x 25/2,5	10,28 €	IM	10 / 40
512047MP	26/3 x 1/2" F x 20/2	11,19 €	IM	12 / 48
512046MP	26/3 x 1/2" F x 26/3	10,92 €	IM	12 / 48
512042MP	26/3 x 3/4" F x 26/3	10,28 €	IM	10 / 40
512043MP	32/3 x 3/4" F x 32/3	16,89 €	IM	10 / 40
512044MP	32/3 x 1" F x 32/3	16,90 €	IM	10 / 40
512040	40/3,5 x 3/4" F x 40/3,5	42,85 €	IB	15
512087	40/3,5 x 1" F x 40/3,5	51,25 €	IB	20
512049	40/3,5 x 1"1/4 F x 40/3,5	48,06 €	IB	12
512041	50/4 x 3/4" F x 50/4	70,84 €	IB	12
512088	50/4 x 1" F x 50/4	69,84 €	IB	12
510115	50/4 x 1"1/4 F x 50/4	70,84 €	IB	12
511124	50/4 x 1"1/2 F x 50/4	60,98 €	IB	12
510060	63/4,5 x 1" F x 63/4,5	91,77 €	IB	8
510061	63/4,5 x 1"1/4 F x 63/4,5	91,77 €	IB	8
511125	63/4,5 x 2" F x 63/4,5	104,59 €	IB	8

**MP 5703**


- Raccordo diritto con dado girevole a tenuta piana.
- Straight fitting with flat seal and rotating nut.
- Raccord droit avec écrou tournant à joint plat étanche.
- Gerades Verbindungsstück mit flach abgedichteter drehbarer Mutter.
- Racor recto con arandela y junta de estanqueidad plana.

Code	Size	Price	Class	Packaging
510110MP	3/8" F x 16/2	4,27 €	IM	40 / 160
510085MP	1/2" F x 16/2	4,01 €	IM	40 / 160
510087MP	1/2" F x 20/2	4,70 €	IM	30 / 120
510076MP	3/4" F x 16/2	4,70 €	IM	30 / 120
510077MP	3/4" F x 18/2	5,09 €	IM	30 / 120
510078MP	3/4" F x 20/2	5,10 €	IM	30 / 120
510195MP	3/4" F x 20/2,5	5,10 €	IM	40 / 160
510171MP	3/4" F x 25/2,5	6,17 €	IM	30 / 120
510088MP	3/4" F x 26/3	6,17 €	IM	30 / 120
510172MP	1" F x 25/2,5	7,24 €	IM	25 / 100
510079MP	1" F x 26/3	7,24 €	IM	25 / 100
510089MP	1" F x 32/3	9,79 €	IM	20 / 80
510080MP	1"1/4 F x 32/3	10,71 €	IM	15 / 60
510081	1"1/2 F x 40/3,5	33,02 €	IB	40
510098	1"1/2 F x 50/4	49,77 €	IB	30
510082	1"3/4 F x 50/4	45,73 €	IB	30
510083	2" F x 63/4,5	75,87 €	IB	16

**MP 5705**


- Raccordo diritto con dado girevole.
- Straight fitting with rotating nut.
- Raccord droit avec écrou pivotant.
- Durchgang-Verbinder mit drehbarer Mutter.
- Racor recto con arandela.

Code	Size	Price	Class	Packaging
510017MP	EUROK x 16/2	4,71 €	IM	30 / 120
513020MP	EUROK x 18/2	5,45 €	IM	30 / 120
510018MP	EUROK x 20/2	5,45 €	IM	30 / 120

**MP 5717**


- Raccordo ad angolo con dado girevole a tenuta piana.
- Angle fitting with flat seal and rotating nut.
- Raccord à angle avec écrou tournant à joint plat étanche.
- Winkel-Verbindungsstück mit flach abgedichteter drehbarer Mutter.
- Racor codo con arandela y junta de estanqueidad plana.

Code	Size	Price	Class	Packaging
512033MP	1/2" F x 16/2	6,00 €	IM	30 / 120
512034MP	3/4" F x 16/2	6,11 €	IM	30 / 120

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## FOCUS: U-fittings

Besides the obvious objective of distributing water to any connected component while maintaining design temperatures and pressures, certainly one of the fundamental objectives for any plumbing system is to guarantee the best hygienic conditions possible by preserving the quality of the water coming from the water main.

A plumbing system comprises several sections of pipes: from the main distribution ring, the ascending or descending vertical sections, the horizontal distribution sections to the floors, including the connections to the terminal units (i.e. basins, baths, showers, etc.). To make these connections there are several possible options. The best known are connections to a bypass or manifold (Figures 1 and 2). However, there is always an aspect that should not be underestimated in these cases: those pipe segments serving rarely used components suffer from a lack of water circulation, meaning the water in these becomes stagnant. Stagnant water, i.e. the same water sitting inside pipes over a long period of time, encourages the proliferation of bacteria, including legionella, and should therefore be avoided as much as possible.

IVAR's MP range of fittings includes the 5780 series fitting, which is essential for installations such as those shown in Figures 3 and 4, i.e. to implement "series" and "ring" type distribution systems. In both cases, the goal of these configurations is to facilitate water circulation in the pipes, thus avoiding stagnation and reducing health risks. In the case of series distribution, the component used most frequently should be in the furthest position from the column (from the point of view of distribution) so that every time this is used, the water is replaced completely through circulation in all the branches. In the case of ring distribution, the use of any user component achieves the same result, making this distribution system the most effective for reducing hygienic risk. Depending on specific standard public health regulations, which differ from region to region, there may be a requirement to build facilities for hospitals and community structures using a ring distribution system, including an automatic withdrawal point activated by timer, to ensure periodic water circulation in the pipes as well as the extension up to the terminal units with a thermal disinfection cycle (otherwise limited to the main distribution sections).

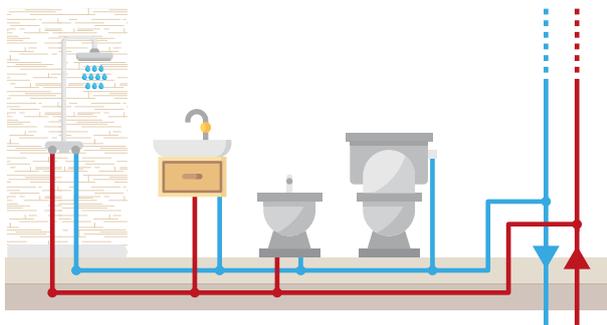


Figure 1. Bypass system

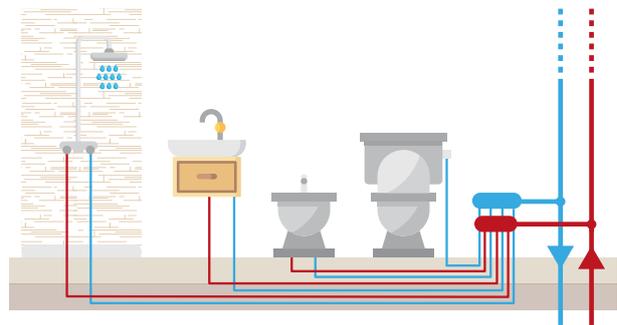


Figure 2. Manifold system

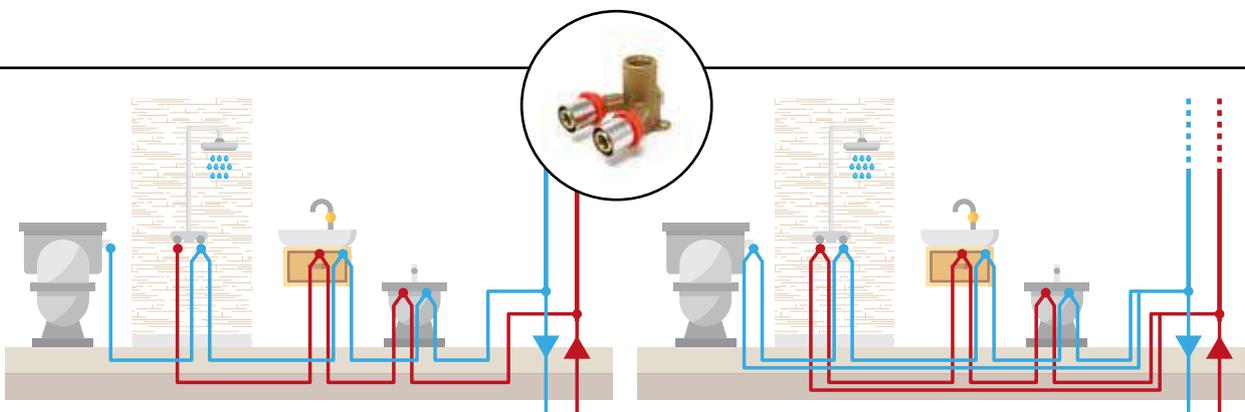


Figure 3. Series system

Figure 4. Ring system

**MP 5780**


- **Raccordo murale doppio.**
- *Double wall fitting.*
- **Raccord mural double.**
- *Doppel Wand-Verbinder.*
- **Racor codo doble con base.**

Code	Size	Price	Class	Packaging
510062MP	1/2" F x 16/2	18,71 €	IM	8 / 32
510064MP	1/2" F x 20/2	20,17 €	IM	8 / 32

**MP 5781**


- **Raccordo murale doppio 90°.**
- *Double wall fitting 90°.*
- **Raccord mural double 90°.**
- *Doppel Wand-Verbinder 90°.*
- **Racor codo doble a 90° con base.**

Code	Size	Price	Class	Packaging
511106MP	1/2" F x 16/2	12,56 €	IM	8 / 32
511108MP	1/2" F x 20/2	13,50 €	IM	8 / 32

**MP 5765**


- **Raccordi murali doppi (kit con AS 1929).**
- *Double wall fittings (kit with AS 1929).*
- **Raccords murals doubles (kit avec AS 1929).**
- *Doppel Wand-Verbinder (Kit mit AS 1929).*
- **Brida y racores codo dobles (conjunto con AS 1929).**

Code	Size	Price	Class	Packaging
513036MP	1/2" F x 16/2	42,51 €	IM	15
513038MP	1/2" F x 20/2	45,44 €	IM	15

**MP 5769**


- **Raccordi murali doppi 90° (kit con AS 1929).**
- *Double wall fittings 90° (kit with AS 1929).*
- **Raccords murals doubles 90° (kit avec AS 1929).**
- *Doppel Wand-Verbinder 90° (Kit mit AS 1929).*
- **Brida y racores codo dobles a 90° (conjunto con AS 1929).**

Code	Size	Price	Class	Packaging
511109MP	1/2" F x 16/2	30,21 €	IM	15
511111MP	1/2" F x 20/2	32,09 €	IM	15

**MP 5766**


- **Raccordi murali doppi (kit con AS 1927).**
- *Double wall fittings (kit with AS 1927).*
- **Raccords murals doubles (kit avec AS 1927).**
- *Doppel Wand-Verbinder (Kit mit AS 1927).*
- **Brida y racores codo dobles (conjunto con AS 1927).**

Code	Size	Price	Class	Packaging
513039MP	1/2" F x 16/2	45,18 €	IM	15
513041MP	1/2" F x 20/2	48,10 €	IM	15



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### MP 5760



- Raccordo murale.
- Wall fitting.
- Raccord mural.
- Wand-Verbinder.
- Racor codo con base.

Code	Size	Height	Price	Class	Packaging
513001CMP	1/2" F x 16/2	40 mm	6,47 €	IM	15 / 60
513014CMP	1/2" F x 18/2	40 mm	6,77 €	IM	15 / 60
513002CMP	1/2" F x 20/2	40 mm	6,77 €	IM	15 / 60
513001MP	1/2" F x 16/2	52 mm	6,60 €	IM	15 / 60
513001MPHD	1/2" F x 16/2 (Heavy version)	52 mm	7,58 €	IM	15 / 60
511096MP	1/2" F x 16/2,25	52 mm	6,60 €	IM	15 / 60
513014MP	1/2" F x 18/2	52 mm	7,37 €	IM	15 / 60
513002MP	1/2" F x 20/2	52 mm	7,37 €	IM	15 / 60
511097MP	1/2" F x 20/2,25	52 mm	7,37 €	IM	15 / 60
511098MP	1/2" F x 20/2,5	52 mm	7,37 €	IM	15 / 60
513003MP	3/4" F x 20/2	57 mm	9,63 €	IM	10 / 40
511099MP	3/4" F x 20/2,25	57 mm	9,63 €	IM	10 / 40
511100MP	3/4" F x 20/2,5	57 mm	9,63 €	IM	10 / 40
510167MP	3/4" F x 25/2,5	57 mm	10,19 €	IM	10 / 40
513004MP	3/4" F x 26/3	57 mm	10,19 €	IM	10 / 40
513001LMP	1/2" F x 16/2	77 mm	9,68 €	IM	10 / 40
513014LMP	1/2" F x 18/2	77 mm	10,03 €	IM	10 / 40
513002LMP	1/2" F x 20/2	77 mm	10,03 €	IM	10 / 40

### MP 5761



- Raccordi murali (kit con AS 1929).
- Wall fittings (kit with AS 1929).
- Raccords murals (kit avec AS 1929).
- Wand-Verbinder (Kit mit AS 1929).
- Brida y racores codo (conjunto con AS 1929).

Code	Size	Height	Price	Class	Packaging
513024CMP	1/2" F x 16/2	40 mm	18,03 €	IM	15
513026CMP	1/2" F x 18/2	40 mm	18,62 €	IM	15
513025CMP	1/2" F x 20/2	40 mm	18,62 €	IM	15
513024MP	1/2" F x 16/2	52 mm	18,29 €	IM	15
513026MP	1/2" F x 18/2	52 mm	19,81 €	IM	15
513025MP	1/2" F x 20/2	52 mm	19,81 €	IM	15
513024LMP	1/2" F x 16/2	77 mm	24,42 €	IM	15
513026LMP	1/2" F x 18/2	77 mm	25,13 €	IM	15
513025LMP	1/2" F x 20/2	77 mm	25,13 €	IM	15

### MP 5762



- Raccordi murali (kit con AS 1927).
- Wall fittings (kit with AS 1927).
- Raccords murals (kit avec AS 1927).
- Wand-Verbinder (Kit mit AS 1927).
- Brida y racores codo (conjunto con AS 1927).

Code	Size	Height	Price	Class	Packaging
513027CMP	1/2" F x 16/2	40 mm	20,68 €	IM	15
513028CMP	1/2" F x 18/2	40 mm	21,28 €	IM	15
513029CMP	1/2" F x 20/2	40 mm	21,28 €	IM	15
513027MP	1/2" F x 16/2	52 mm	20,94 €	IM	15
513028MP	1/2" F x 18/2	52 mm	22,48 €	IM	15
513029MP	1/2" F x 20/2	52 mm	22,48 €	IM	15
513027LMP	1/2" F x 16/2	77 mm	27,09 €	IM	15
513028LMP	1/2" F x 18/2	77 mm	27,80 €	IM	15
513029LMP	1/2" F x 20/2	77 mm	27,80 €	IM	15

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**MP 5724**


- **Terminale murale destro per tracce orizzontali.**
- *Right wall terminal for horizontal chases.*
- **Partie terminale murale droite pour traces horizontales.**
- *Rechts Wandanschluss für waagerechte Rohrgänge.*
- **Racor terminal con base derecho para rozas horizontales.**

Code	Size	Price	Class	Packaging
513009MP	1/2" F x 16/2	10,96 €	IM	12 / 48
513011MP	1/2" F x 18/2	11,20 €	IM	12 / 48
513013MP	1/2" F x 20/2	11,20 €	IM	12 / 48

**MP 5723**


- **Raccordo murale per tracce orizzontali.**
- *Wall fitting for horizontal chases.*
- **Raccord mural pour traces horizontales.**
- *Wand-Verbinder für waagerechte Rohrgänge.*
- **Racor con base para rozas horizontales.**

Code	Size	Price	Class	Packaging
513005MP	16/2 x 1/2" F x 16/2	12,28 €	IM	12 / 48
513006MP	18/2 x 1/2" F x 18/2	12,79 €	IM	12 / 48
513007MP	20/2 x 1/2" F x 20/2	12,79 €	IM	12 / 48

**MP 5725**


- **Terminale murale sinistro per tracce orizzontali.**
- *Left wall terminal for horizontal chases.*
- **Partie terminale murale gauche pour traces horizontales.**
- *Links Wandanschluss für waagerechte Rohrgänge.*
- **Racor terminal con base izquierdo para rozas horizontales.**

Code	Size	Price	Class	Packaging
513008MP	1/2" F x 16/2	10,96 €	IM	12 / 48
513010MP	1/2" F x 18/2	11,20 €	IM	12 / 48
513012MP	1/2" F x 20/2	11,20 €	IM	10 / 40

**MP 5763**


- **Raccordi murali per tracce orizzontali (kit con AS 1928).**
- *Wall fittings for horizontal chases (kit with AS 1928).*
- **Raccords murals pour traces horizontales (kit avec AS 1928).**
- *Wand-Verbinder für waagerechte Rohrgänge (Kit mit AS 1928).*
- **Brida y racores con base para rozas horizontales (conjunto con AS 1928).**

Code	Size	Price	Class	Packaging
513030MP	1/2" F x 16/2	29,10 €	IM	15
513031MP	1/2" F x 18/2	30,12 €	IM	15
513032MP	1/2" F x 20/2	30,12 €	IM	15

**MP 5764**


- **Terminali murali per tracce orizzontali (kit con AS 1928).**
- *Wall terminals for horizontal chases (kit with AS 1928).*
- **Parties terminales murale pour traces horizontales (kit avec AS 1928).**
- *Wandanschlüsse für waagerechte Rohrgänge (Kit mit AS 1928).*
- **Brida y racores terminales con base para rozas horizontales (conjunto con AS 1928).**

Code	Size	Price	Class	Packaging
513033MP	1/2" F x 16/2	26,46 €	IM	15
513034MP	1/2" F x 18/2	26,93 €	IM	15
513035MP	1/2" F x 20/2	26,93 €	IM	15

**MP 5728**


- **Raccordo doppio T incrociato per impianti a battiscopa.**
- *Double crossed T fitting for skirting board plants.*
- **Raccord à double T croisé pour installations à la plinthe.**
- *Doppel T-Stück für Sockenleiste.*
- **Racor en Te doble cruzado para sistemas en zócalos.**

Code	Size	Price	Class	Packaging
512080MP	16/2-16/2 x 16/2-16/2 x 16/2-16/2	39,57 €	IM	3 / 12
512082MP	20/2-20/2 x 16/2-16/2 x 20/2-20/2	40,98 €	IM	3 / 12
512083MP	20/2-20/2 x 16/2-16/2 x 16/2-16/2	40,28 €	IM	3 / 12
512084MP	16/2-16/2 x 20/2-20/2 x 16/2-16/2	40,28 €	IM	3 / 12
512085MP	20/2-20/2 x 20/2-20/2 x 20/2-20/2	41,70 €	IM	3 / 12
512086MP	20/2-20/2 x 20/2-20/2 x 16/2-16/2	40,98 €	IM	3 / 12
512096MP	16/2-16/2 x 16/2-16/2 x 20/2-20/2	40,28 €	IM	3 / 12
512097MP	16/2-16/2 x 20/2-20/2 x 20/2-20/2	40,98 €	IM	3 / 12

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### HIDDEN DISTRIBUTION FITTING

Multilayer pipes are installed in corrugated conduit in some systems, for example, when additional protection is required or in countries where installation regulations require the pipes to be removable. For connection to the terminal units in these cases, the MP 5610 series hidden distribution fittings are required. Made with a 1/2" F connection, these accommodate the corrugated protective conduit inside, keeping the pipe insulated up to the point of exit from the masonry wall. The CW617N brass fitting is fixed to the plastic box by a pair of screws, so that it can be easily disassembled for crimping and then reinserted in the box.



### MP 5767



- Scatola di distribuzione sottotraccia con raccordo a pressare a 90° (Kit).
- Under-floor distribution box with 90° press-fitting (Kit).
- Boîte de distribution encastrée avec raccord à presser à 90° (Kit).
- Unter-Putzdose mit 90° Winkel-Pressfitting (Kit).
- Caja de distribución empotrable con racor a presar a 90° (Kit).

Code	Size	Color	Price	Class	Packaging
513042MP	1/2" F x 16/2		18,66 €	IM	4 / 48
513044MP	1/2" F x 20/2		22,01 €	IM	4 / 48



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**MP 5610 B**


- **Scatola di distribuzione sottotraccia con raccordo a pressare a 90°.**
- *Under-floor distribution box with 90° press-fitting.*
- **Boîte de distribution encastrée avec raccord à presser à 90°.**
- *Unter-Putzdose mit 90° Winkel-Pressfitting.*
- **Caja de distribución empotrable con racor a prensar a 90°.**

Code	Size	Color	Price	Class	Packaging
500304MP	1/2" F x 16/2	■	8,41 €	IM	8 / 96
500306MP	1/2" F x 20/2	■	9,13 €	IM	8 / 96

**MP 5610 R**


- **Scatola di distribuzione sottotraccia con raccordo a pressare a 90°.**
- *Under-floor distribution box with 90° press-fitting.*
- **Boîte de distribution encastrée avec raccord à presser à 90°.**
- *Unter-Putzdose mit 90° Winkel-Pressfitting.*
- **Caja de distribución empotrable con racor a prensar a 90°.**

Code	Size	Color	Price	Class	Packaging
500304RMP	1/2" F x 16/2	■	8,41 €	IM	8 / 96
500306RMP	1/2" F x 20/2	■	9,13 €	IM	8 / 96

**AS 1925**


- **Dima frazionabile per scatole di distribuzione sottotraccia MP 5610 - SS 1711.**
- *Dividable template for under-floor distribution boxes MP 5610 - SS 1711.*
- **Platine de fixation pouvant être fractionnée pour les boîtes de distribution encastrée MP 5610 - SS 1711.**
- *Trennbare Halterung für Unterputz-Dose MP 5610 - SS 1711.*
- **Plantilla fraccionable para caja de distribución empotrables MP 5610 - SS 1711.**

Code	Size	Price	Class	Packaging
501011	MP 5610 - SS 1711	1,77 €	JC	60

**AR 08 MP**


- **Boccole di ricambio per MULTI PRESS.**
- *Spare bushes for MULTI PRESS.*
- **Douilles de rechange pour MULTI PRESS.**
- *Ersatzhülsen für MULTI PRESS.*
- **Casquillo para MULTI PRESS.**

Code	Size	Price	Class	Packaging
502120MP	16/2	1,20 €	IG	50
502121MP	18/2	1,31 €	IG	50
502122MP	20/2	1,31 €	IG	50
502123MP	25/2,5	1,83 €	IG	35
502124MP	26/3	1,83 €	IG	20
502125MP	32/3	1,99 €	IG	15
502126	40/3,5	4,13 €	IG	10
502127	50/4	5,88 €	IG	8
502128	63/4,5	8,37 €	IG	5



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### MP 5729



- Rubinetto da incasso con attacco press-fit DN 15, manopola e rosone cromati.
- Built-in valve with press-fitting connection DN 15, chromed knob and plate.
- Robinet d'encaissement avec embout de raccord à presser DN 15, poignée et rosace chromés.
- Wand-Armatur mit Pressfitting-Anschluss DN 15, verchromte Handknopf und Abdeckmanschette.
- Valvula de bola para empotrar con conexión press-fit DN 15, mando y rosetón cromados.

Code	Size	Price	Class	Packaging
510189MMP	16/2 - 16/2	34,58 €	IM	3 / 12
510192MMP	16/2,25 - 16/2,25	34,58 €	IM	3 / 12
510190MMP	18/2 - 18/2	35,43 €	IM	3 / 12
510191MMP	20/2 - 20/2	35,43 €	IM	3 / 12
510193MMP	20/2,25 - 20/2,25	35,43 €	IM	3 / 12
510194MMP	20/2,5 - 20/2,5	35,43 €	IM	3 / 12

### MP 5730



- Rubinetto da incasso con attacco press-fit DN 15, cappuccio e rosone cromati.
- Built-in valve with press-fitting connection DN 15, chromed cap and plate.
- Robinet d'encaissement avec embout de raccord à presser DN 15, capuchon et rosace chromés.
- Wand-Armatur mit Pressfitting-Anschluss DN 15, verchromte Schutzkappe und Abdeckmanschette.
- Valvula de bola para empotrar con conexión press-fit DN 15, capota y rosetón cromado.

Code	Size	Price	Class	Packaging
510189CMP	16/2 - 16/2	28,59 €	IM	3 / 12
510192CMP	16/2,25 - 16/2,25	28,59 €	IM	3 / 12
510190CMP	18/2 - 18/2	29,46 €	IM	3 / 12
510191CMP	20/2 - 20/2	29,46 €	IM	3 / 12
510193CMP	20/2,25 - 20/2,25	29,46 €	IM	3 / 12
510194CMP	20/2,5 - 20/2,5	29,46 €	IM	3 / 12

### MP 5701



- Tappo.
- Plug.
- Bouchon.
- Verschluss.
- Tapón.

Code	Size	Price	Class	Packaging
510071MP	16/2	3,61 €	IM	40 / 160
510073MP	20/2	4,74 €	IM	40 / 160
510170MP	25/2,5	6,63 €	IM	35 / 140
510074MP	26/3	6,63 €	IM	35 / 140
510075MP	32/3	9,10 €	IM	20 / 80

### MP 5702



- Raccordo diretto con tubo in rame cromato.
- Straight fitting with copper chrome plated pipe.
- Raccord droit avec tube en cuivre chromé.
- Anschluss Durchgangsform mit verchromtem Kupferrohr.
- Racor recto con tubo de cobre cromado.

Code	Size	Price	Class	Packaging
510065MP	Ø15 x 16/2	8,09 €	IM	25 / 100
510090MP	Ø15 x 20/2	8,63 €	IM	25 / 100
510066MP	Ø18 x 20/2	9,02 €	IM	25 / 100
510091MP	Ø22 x 20/2	11,59 €	IM	20 / 80
510168MP	Ø22 x 25/2,5	12,05 €	IM	20 / 80
510067MP	Ø22 x 26/3	12,05 €	IM	20 / 80
510068MP	Ø28 x 32/3	14,77 €	IM	10 / 40

### MP 5715



- Raccordo ad L con tubo di rame cromato.
- L fitting with chrome-plated copper pipe.
- Raccord en L avec tube en cuivre chromé.
- Winkel-Verbinder mit verchromtem Kupferrohr.
- Racor codo con tubo de cobre cromado.

Code	Size	Height	Price	Class	Packaging
511015MP	Ø15 x 16/2	165 mm	12,24 €	IM	100
511016MP	Ø15 x 16/2	345 mm	17,48 €	IM	60
511017MP	Ø15 x 16/2	1095 mm	41,95 €	IM	50
511025MP	Ø15 x 20/2	165 mm	14,20 €	IM	80
511026MP	Ø15 x 20/2	345 mm	18,78 €	IM	50
511027MP	Ø15 x 20/2	1095 mm	44,67 €	IM	50

### MP 5716



- Raccordo a T con tubo in rame cromato.
- T fitting with chrome-plated copper pipe.
- Raccord à T avec tube en cuivre chromé.
- T-Stück mit verchromtem Kupferrohr.
- Racor en Te con tubo de cobre cromado.

Code	Size	Price	Class	Packaging
512077MP	16/2 x Ø15 x 16/2	21,10 €	IM	25
512079MP	20/2 x Ø15 x 20/2	21,78 €	IM	25



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# PRESS FITTINGS P•M•P

PLASTIC•MULTI•PRESS is the plastic press fitting designed and tested by IVAR for use with any of the 7 different crimping profiles (BE, B, TH, R, H, F and U). The body is made of PPSU, a plastic with high thermal resistance and mechanical strength that guarantees top performance and avoids problems related to corrosion that can occur with metal fittings. The material used complies with the public health regulations of several international bodies and therefore can be used for drinking water distribution. The geometry of the fitting, which was designed to provide optimal coupling between pipe and fitting after pressing and the windows on the bushing flange used to verify that the pipe and two peroxide EPDM O-rings on each end have been inserted properly are all details that help to ensure the applicability and reliability of the product.

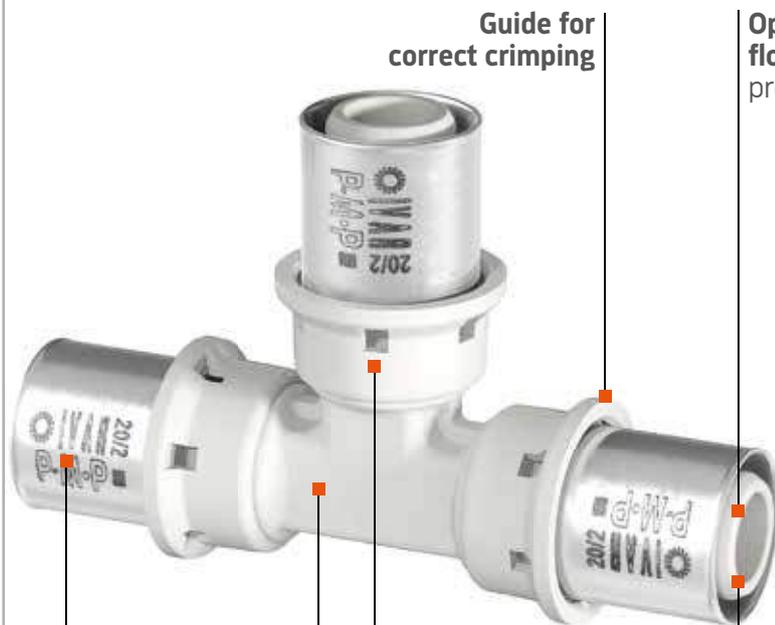
They are available in a wide range of configurations (non-threaded figures) and sizes from 16/2 to 32/3.

## Technical specifications:

Maximum operating temperature: 120 °C

Maximum operating static pressure: 10 bar

## PLUS



Guide for correct crimping

Optimized water flow (reduced pressure loss)



Solution-treated stainless steel to protect the crimper

Fitting can be rotated even after crimping

Extended slots to check for proper pipe insertion

Double O-Ring for maximum seal after crimping

Ø (mm)	16	20	25	26	32
Spessore Thickness Épaisseur Dicke Espesor (mm)	2	2	2,5	3	3
BE**	■	■	-	■	■
B***	■	■	-	■	■
F***	■	■	-	■	■
R**	■	■	■	■	■
H***	■	■	■	■	■
TH*	■	■	■	■	■
U*	■	■	■	-	■

\* Rothenberger/Rems \*\* Rothenberger \*\*\* Rems

- Compatible with all TH - H/R - U - B/BE - F crimping profiles
- Maximum corrosion resistance
- Ø from 16 to 32 mm

### ■ PMP 5700 R



- **Raccordo diritto ridotto.**
- *Straight reduced fitting.*
- **Raccord droit réduit.**
- *Reduzierter Durchgangs-Verbinder.*
- **Racor recto reducido.**

Code	Size	Price	Class	Packaging
510008PMP	16/2 x 20/2	3,90 €	II	40 / 320
510135PMP	16/2 x 25/2,5	5,53 €	II	16 / 128
510009PMP	16/2 x 26/3	5,53 €	II	16 / 128
510137PMP	20/2 x 25/2,5	5,81 €	II	16 / 128
510010PMP	20/2 x 26/3	5,81 €	II	16 / 128
510023PMP	20/2 x 32/3	7,36 €	II	12 / 96
510138PMP	25/2,5 x 32/3	8,16 €	II	12 / 96
510019PMP	26/3 x 32/3	8,16 €	II	12 / 96

### ■ PMP 5700



- **Raccordo diritto.**
- *Straight fitting.*
- **Raccord droit.**
- *Kupplung.*
- **Racor recto.**

Code	Size	Price	Class	Packaging
510005PMP	16/2 x 16/2	3,65 €	II	40 / 320
510006PMP	20/2 x 20/2	4,23 €	II	24 / 192
510134PMP	25/2,5 x 25/2,5	6,60 €	II	16 / 128
510007PMP	26/3 x 26/3	6,60 €	II	16 / 128
510020PMP	32/3 x 32/3	9,37 €	II	12 / 96

### ■ PMP 5710



- **Raccordo ad angolo.**
- *Angle fitting.*
- **Raccord à angle.**
- *Winkel-Kupplung.*
- **Racor codo.**

Code	Size	Price	Class	Packaging
511009PMP	16/2 x 16/2	4,10 €	II	30 / 240
511010PMP	20/2 x 20/2	4,57 €	II	24 / 192
510140PMP	25/2,5 x 25/2,5	8,43 €	II	12 / 96
511011PMP	26/3 x 26/3	8,43 €	II	12 / 96
511012PMP	32/3 x 32/3	11,11 €	II	10 / 80

### ■ PMP 5720



- **Raccordo a T.**
- *Tee fitting.*
- **Raccord à T.**
- *T-Stück.*
- **Racor en Te.**

Code	Size	Price	Class	Packaging
512001PMP	16/2 x 16/2 x 16/2	5,19 €	II	20 / 160
512002PMP	20/2 x 20/2 x 20/2	6,93 €	II	14 / 112
510143PMP	25/2,5 x 25/2,5 x 25/2,5	11,00 €	II	8 / 64
512003PMP	26/3 x 26/3 x 26/3	11,00 €	II	8 / 64
512020PMP	32/3 x 32/3 x 32/3	16,08 €	II	6 / 48

### ■ PMP 5720 RLL



- **Raccordo a T con attacchi laterali ridotti.**
- *Tee fitting with reduced side connections.*
- **Raccord à T avec connexions latérales réduites.**
- *T-Stück mit reduzierten seitlichen Anschlüssen.*
- **Racor en Te con conexiones laterales reducidas.**

Code	Size	Price	Class	Packaging
512013PMP	16/2 x 20/2 x 16/2	6,40 €	II	14 / 112
510147PMP	20/2 x 25/2,5 x 20/2	9,44 €	II	8 / 64
512014PMP	20/2 x 26/3 x 20/2	9,44 €	II	8 / 64
512051PMP	20/2 x 32/3 x 20/2	13,42 €	II	6 / 48
510179PMP	25/2,5 x 32/3 x 25/2,5	14,19 €	II	6 / 48
512019PMP	26/3 x 32/3 x 26/3	14,19 €	II	6 / 48

### ■ PMP 5720 RCL



- **Raccordo a T con attacco centrale e laterale ridotto.**
- *Tee fitting with reduced central and side connection.*
- **Raccord à T avec connexion centrale et latérale réduites.**
- *T-Stück mit reduziertem Mittel- und Seitenanschluss.*
- **Racor en Te con conexión central y lateral reducida.**

Code	Size	Price	Class	Packaging
512009PMP	16/2 x 16/2 x 20/2	6,40 €	II	14 / 112
510154PMP	20/2 x 20/2 x 25/2,5	9,44 €	II	8 / 64
512012PMP	20/2 x 20/2 x 26/3	9,44 €	II	8 / 64
512021PMP	20/2 x 20/2 x 32/3	13,42 €	II	6 / 48
510155PMP	25/2,5 x 25/2,5 x 32/3	14,19 €	II	6 / 48
512017PMP	26/3 x 26/3 x 32/3	14,19 €	II	6 / 48

**PMP 5720 RC**


- **Raccordo a T con attacco centrale ridotto.**
- *Tee fitting with reduced central connection.*
- **Raccord à T avec connexion centrale réduite.**
- *T-Stück mit reduziertem Zentralanschluss.*
- **Racor en Te con conexión central reducida.**

Code	Size	Price	Class	Packaging
512004PMP	20/2 x 16/2 x 20/2	6,69 €	II	14 / 112
510144PMP	25/2,5 x 16/2 x 25/2,5	9,97 €	II	8 / 64
510146PMP	25/2,5 x 20/2 x 25/2,5	10,08 €	II	8 / 64
512005PMP	26/3 x 16/2 x 26/3	9,97 €	II	8 / 64
512006PMP	26/3 x 20/2 x 26/3	10,08 €	II	8 / 64
512015PMP	32/3 x 16/2 x 32/3	14,47 €	II	6 / 48
512016PMP	32/3 x 20/2 x 32/3	14,73 €	II	6 / 48
510174PMP	32/3 x 25/2,5 x 32/3	15,12 €	II	6 / 48
512018PMP	32/3 x 26/3 x 32/3	15,12 €	II	6 / 48

**PMP 5720 RL**


- **Raccordo a T con attacco laterale ridotto.**
- *Tee fitting with reduced side connection.*
- **Raccord à T avec connexion latérale réduite.**
- *T-Stück mit reduziertem seitlichen Anschluss.*
- **Racor en Te con conexión lateral reducida.**

Code	Size	Price	Class	Packaging
512007PMP	20/2 x 20/2 x 16/2	6,69 €	II	14 / 112
510148PMP	25/2,5 x 25/2,5 x 16/2	9,97 €	II	8 / 64
510150PMP	25/2,5 x 25/2,5 x 20/2	10,08 €	II	8 / 64
512048PMP	26/3 x 26/3 x 16/2	9,97 €	II	8 / 64
512008PMP	26/3 x 26/3 x 20/2	10,08 €	II	8 / 64
512052PMP	32/3 x 32/3 x 20/2	14,73 €	II	6 / 48
510151PMP	32/3 x 32/3 x 25/2,5	15,12 €	II	6 / 48
512053PMP	32/3 x 32/3 x 26/3	15,12 €	II	6 / 48

**PMP 5720 RR**


- **Raccordo a T con attacchi a doppia riduzione.**
- *Tee fitting with double reduction connections.*
- **Raccord à T avec des connexions à double réduction.**
- *T-Stück mit Doppel Reduktion Anschlüssen.*
- **Racor en Te con conexiones de doble reducción.**

Code	Size	Price	Class	Packaging
510157PMP	25/2,5 x 16/2 x 20/2	8,99 €	II	8 / 64
510158PMP	25/2,5 x 20/2 x 16/2	8,99 €	II	8 / 64
512010PMP	26/3 x 16/2 x 20/2	8,99 €	II	8 / 64
512011PMP	26/3 x 20/2 x 16/2	8,99 €	II	8 / 64
510159PMP	32/3 x 20/2 x 25/2,5	13,46 €	II	6 / 48
512050PMP	32/3 x 20/2 x 26/3	13,46 €	II	6 / 48
512024PMP	32/3 x 26/3 x 20/2	13,46 €	II	6 / 48

**AR 08 PMP**


- **Boccole di ricambio per PLASTIC MULTI PRESS.**
- *Spare bushes for PLASTIC MULTI PRESS.*
- **Douilles de rechange pour PLASTIC MULTI PRESS.**
- *Ersatzhülsen für PLASTIC MULTI PRESS.*
- **Casquillo para PLASTIC MULTI PRESS.**

Code	Size	Price	Class	Packaging
502120PMP	16/2	0,80 €	IG	50
502122PMP	20/2	1,08 €	IG	50
502123PMP	25/2,5	1,57 €	IG	50
502124PMP	26/3	1,57 €	IG	50
502125PMP	32/3	1,82 €	IG	50

# PRESS FITTINGS M•P•L

MULTI PRESS LEAK is the new IVAR press fitting designed to ensure that water leaks if the press fitting was not crimped. It is for use with any of the 7 different crimping profiles (BE, B, TH, R, H, F and U). The absence of a seal if not crimped is a function particularly requested by the market to avoid problems and damage in the event that an installer forgets to crimp the fitting. A later installer will then be able to immediately identify any leaks and take remedial action by correctly crimping the fitting during the system test.

Its body is made of CW617N. Also available upon request is the version with a lead-free copper-silicon alloy or Cuphin® CW724R body, (add the suffix "C" to the code), which conforms to the positive lists of metal materials suitable for applications in contact with drinking water (4 MS Common Composition List and the UBA List defined by the German Federal Environment Agency).

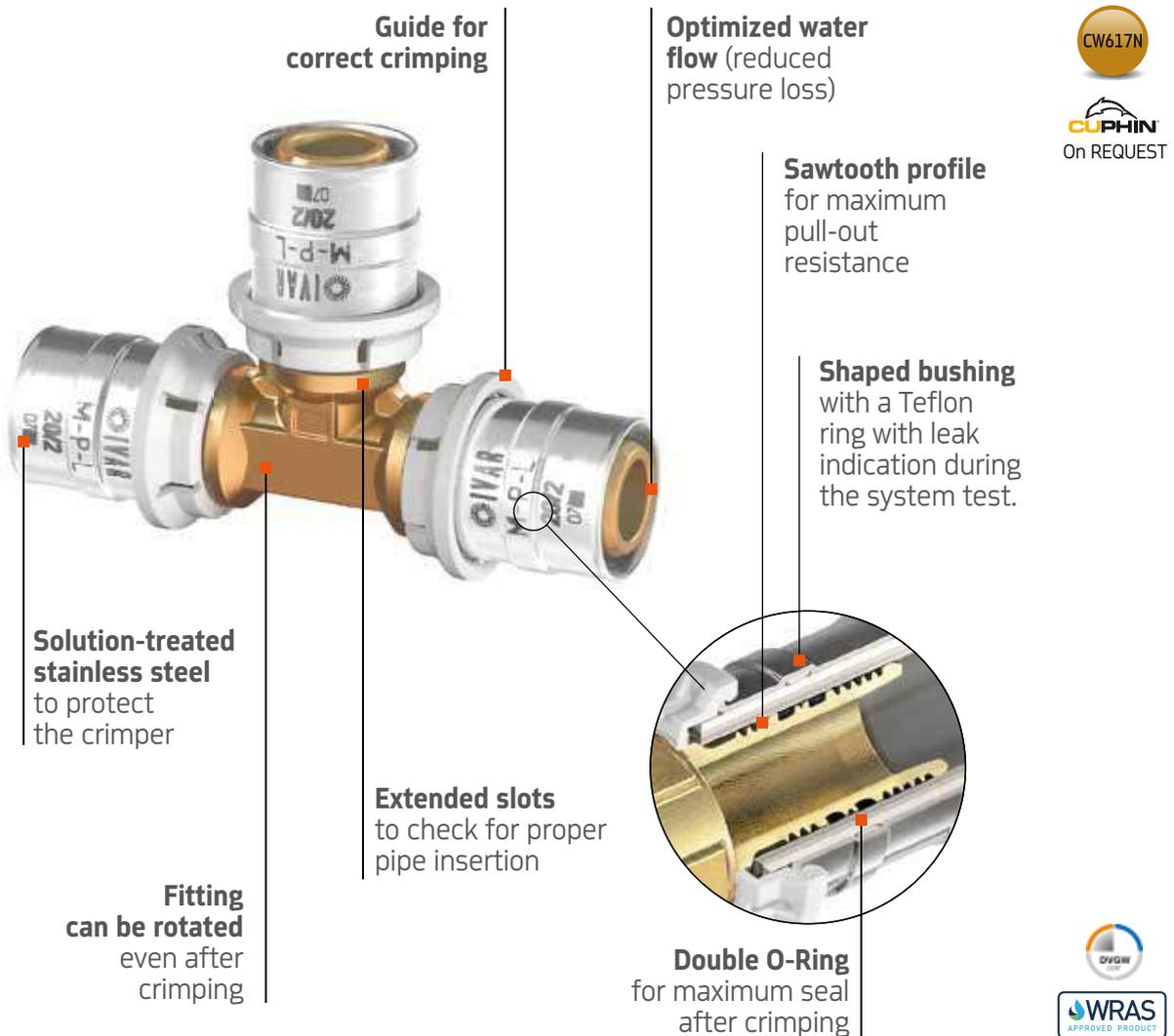
Available in a broad range of configurations and sizes from 16/2 to 32/3.

## Technical specifications:

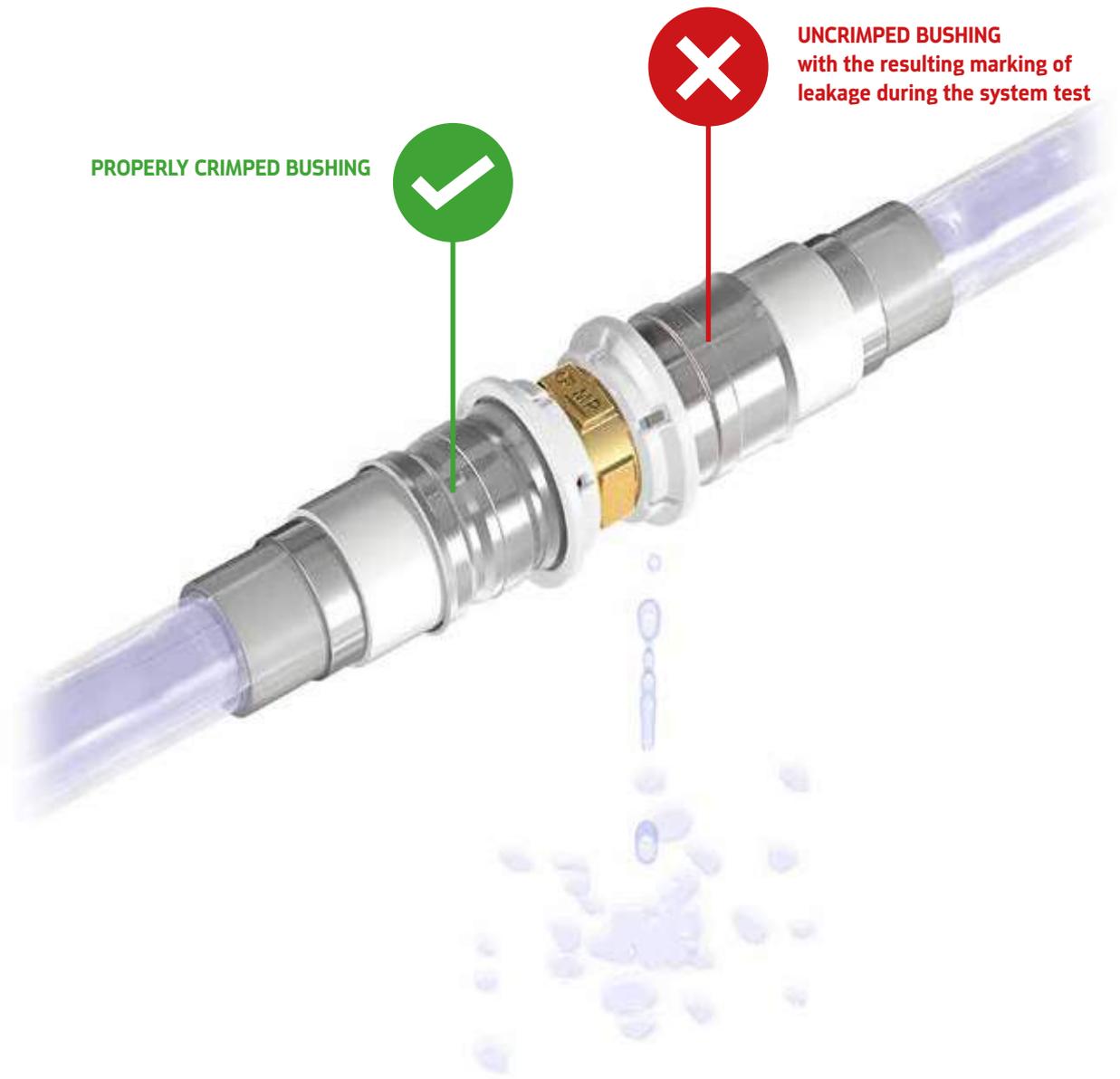
Maximum operating temperature: 120 °C

Maximum operating static pressure: 10 bar

## PLUS



- **Compatible with all TH - H/R - U - B/BE - F crimping profiles**
- **Complete range of figures**
- **Ø from 16 to 32 mm**



Ø (mm)	16	20	26	32
Spessore Thickness Épaisseur Dicke Espesor (mm)	2 2,25	2 2,25 2,5	3	3
	BE**	■	■	■
	B***	■	■	■
	F***	■	■	■
	R**	■	■	■
	H***	■	■	■
	TH*	■	■	■
	U*	■	-	■

\* Rothenberger/Rems

\*\* Rothenberger

\*\*\* Rems

**MPL 5700 R**



- Raccordo diritto.
- Straight fitting.
- Raccord droit.
- Kupplung.
- Racor recto.

Code	Size	Price	Class	Packaging
510008MPL	16/2 x 20/2	5,48 €	I3	40 / 160
510009MPL	16/2 x 26/3	7,28 €	I3	20 / 80
510024MPL	16/2 x 32/3	9,52 €	I3	15 / 60
510010MPL	20/2 x 26/3	7,61 €	I3	20 / 80
510023MPL	20/2 x 32/3	10,16 €	I3	15 / 60
510019MPL	26/3 x 32/3	10,94 €	I3	15 / 60

**MPL 5704**



- Raccordo a 45°.
- 45° fitting.
- Raccord à 45°.
- Verbindungsstück 45°.
- Racor a 45°.

Code	Size	Price	Class	Packaging
510099MPL	26/3 x 26/3	12,64 €	I3	15 / 60
510100MPL	32/3 x 32/3	14,58 €	I3	10 / 40

**MPL 5720**



- Raccordo a T.
- Tee fitting.
- Raccord à T.
- T-Stück.
- Racor en Te.

Code	Size	Price	Class	Packaging
512001MPL	16/2 x 16/2 x 16/2	6,80 €	I3	20 / 80
512002MPL	20/2 x 20/2 x 20/2	9,45 €	I3	16 / 64
512003MPL	26/3 x 26/3 x 26/3	14,23 €	I3	10 / 40
512020MPL	32/3 x 32/3 x 32/3	22,34 €	I3	6 / 24

**MPL 5700**



- Raccordo diritto.
- Straight fitting.
- Raccord droit.
- Kupplung.
- Racor recto.

Code	Size	Price	Class	Packaging
510005MPL	16/2 x 16/2	4,57 €	I3	40 / 160
510006MPL	20/2 x 20/2	5,96 €	I3	40 / 160
510007MPL	26/3 x 26/3	8,72 €	I3	20 / 80
510020MPL	32/3 x 32/3	12,71 €	I3	15 / 60

**MPL 5710**



- Raccordo ad angolo.
- Angle fitting.
- Raccord à angle.
- Winkel-Kupplung.
- Racor codo.

Code	Size	Price	Class	Packaging
511009MPL	16/2 x 16/2	5,25 €	I3	30 / 120
511010MPL	20/2 x 20/2	6,52 €	I3	30 / 120
511011MPL	26/3 x 26/3	9,60 €	I3	15 / 60
511012MPL	32/3 x 32/3	14,11 €	I3	10 / 40

**MPL 5720 RLL**



- Raccordo a T con attacchi laterali ridotti.
- Tee fitting with reduced side connections.
- Raccord à T avec connexions latérales réduites.
- T-Stück mit reduzierten seitlichen Anschlüssen.
- Racor en Te con conexiones laterales reducidas.

Code	Size	Price	Class	Packaging
512013MPL	16/2 x 20/2 x 16/2	8,77 €	I3	16 / 64
512014MPL	20/2 x 26/3 x 20/2	13,05 €	I3	12 / 48
512051MPL	20/2 x 32/3 x 20/2	19,48 €	I3	8 / 32
512019MPL	26/3 x 32/3 x 26/3	20,30 €	I3	8 / 32



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**MPL 5720 RCL**


- Raccordo a T con attacco centrale e laterale ridotti.
- Tee fitting with reduced central and side connection.
- Raccord à T avec connexion centrale et latérale réduites.
- T-Stück mit reduziertem Mittel- und Seitenanschluss.
- Racor en Te con conexión central y lateral reducida.

Code	Size	Price	Class	Packaging
512009MPL	16/2 x 16/2 x 20/2	8,77 €	I3	16 / 64
512012MPL	20/2 x 20/2 x 26/3	13,05 €	I3	12 / 48
512021MPL	20/2 x 20/2 x 32/3	19,48 €	I3	8 / 32
512017MPL	26/3 x 26/3 x 32/3	20,30 €	I3	8 / 32

**MPL 5720 RC**


- Raccordo a T con attacco centrale ridotto.
- Tee fitting with reduced central connection.
- Raccord à T avec connexion centrale réduite.
- T-Stück mit reduziertem Zentralanschluss.
- Racor en Te con conexión central reducida.

Code	Size	Price	Class	Packaging
512004MPL	20/2 x 16/2 x 20/2	9,12 €	I3	16 / 64
512005MPL	26/3 x 16/2 x 26/3	13,05 €	I3	12 / 48
512006MPL	26/3 x 20/2 x 26/3	13,40 €	I3	12 / 48
512015MPL	32/3 x 16/2 x 32/3	18,40 €	I3	8 / 32
512016MPL	32/3 x 20/2 x 32/3	20,39 €	I3	8 / 32
512018MPL	32/3 x 26/3 x 32/3	21,41 €	I3	8 / 32

**MPL 5720 RL**


- Raccordo a T con attacco laterale ridotto.
- Tee fitting with reduced side connection.
- Raccord à T avec connexion latérale réduite.
- T-Stück mit reduziertem seitlichen Anschluss.
- Racor en Te con conexión lateral reducida.

Code	Size	Price	Class	Packaging
512007MPL	20/2 x 20/2 x 16/2	9,12 €	I3	16 / 64
512048MPL	26/3 x 26/3 x 16/2	13,05 €	I3	12 / 48
512008MPL	26/3 x 26/3 x 20/2	13,39 €	I3	12 / 48
512068MPL	32/3 x 32/3 x 16/2	18,40 €	I3	8 / 32
512052MPL	32/3 x 32/3 x 20/2	20,39 €	I3	8 / 32
512053MPL	32/3 x 32/3 x 26/3	21,41 €	I3	8 / 32

**MPL 5720 RR**


- Raccordo a T con attacchi a doppia riduzione.
- Tee fitting with double reduction connections.
- Raccord à T avec des connexions à double réduction.
- T-Stück mit Doppel Reduktion Anschlüssen.
- Racor en Te con conexiones de doble reducción.

Code	Size	Price	Class	Packaging
512010MPL	26/3 x 16/2 x 20/2	11,86 €	I3	12 / 48
512011MPL	26/3 x 20/2 x 16/2	11,86 €	I3	12 / 48
512050MPL	32/3 x 20/2 x 26/3	19,64 €	I3	8 / 32
512024MPL	32/3 x 26/3 x 20/2	19,64 €	I3	8 / 32

**MPL 5728**


- Raccordo doppio T incrociato per impianti a battiscopa.
- Double crossed T fitting for skirting board plants.
- Raccord à double T croisé pour installations à la plinthe.
- Doppel T-Stück für Sockenleiste.
- Racor en Te doble cruzado para sistemas en zócalos.

Code	Size	Price	Class	Packaging
512080MPL	16/2-16/2 x 16/2-16/2 x 16/2-16/2	40,62 €	I3	3 / 12
512096MPL	16/2-16/2 x 16/2-16/2 x 20/2-20/2	41,38 €	I3	3 / 12
512084MPL	16/2-16/2 x 20/2-20/2 x 16/2-16/2	41,38 €	I3	3 / 12
512097MPL	16/2-16/2 x 20/2-20/2 x 20/2-20/2	42,24 €	I3	3 / 12
512083MPL	20/2-20/2 x 16/2-16/2 x 16/2-16/2	41,38 €	I3	3 / 12
512082MPL	20/2-20/2 x 16/2-16/2 x 20/2-20/2	42,24 €	I3	3 / 12
512086MPL	20/2-20/2 x 20/2-20/2 x 16/2-16/2	42,24 €	I3	3 / 12
512085MPL	20/2-20/2 x 20/2-20/2 x 20/2-20/2	42,79 €	I3	3 / 12



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■ MPL 5608



- Raccordo diritto maschio.
- Straight male fitting.
- Raccord droit mâle.
- Durchgang AG Verbinder.
- Racor recto macho.

Code	Size	Price	Class	Packaging
510084MPL	3/8" M x 16/2	4,64 €	I3	50 / 200
510001MPL	1/2" M x 16/2	3,42 €	I3	40 / 160
510105MPL	3/4" M x 16/2	5,27 €	I3	30 / 120
510002MPL	1/2" M x 20/2	3,98 €	I3	40 / 160
510003MPL	3/4" M x 20/2	5,00 €	I3	30 / 120
510004MPL	3/4" M x 26/3	6,47 €	I3	30 / 120
510044MPL	1" M x 26/3	8,03 €	I3	20 / 80
510021MPL	1" M x 32/3	9,67 €	I3	20 / 80
510106MPL	1"1/4 M x 32/3	20,49 €	I3	10 / 40

■ MPL 5609



- Raccordo diritto maschio a tenuta morbida.
- Straight male soft seal fitting.
- Raccord droit mâle à étanchéité souple.
- Durchgang AG Verbinder mit O-Ring.
- Racor recto macho con junta blanda.

Code	Size	Price	Class	Packaging
510048MPL	1/2" M O-ring x 16/2	4,21 €	I3	40 / 160
510050MPL	1/2" M O-ring x 20/2	4,63 €	I3	40 / 160

■ MPL 5607



- Raccordo diritto con attacco FASTEC.
- Straight fitting with FASTEC connection.
- Raccord droit avec embout FASTEC.
- Durchgang Verbinder mit FASTEC Anschluß.
- Racor recto con conexión FASTEC.

Code	Size	Price	Class	Packaging
511115MPL	FASTEC x 16/2	4,37 €	I3	40 / 160
511118MPL	FASTEC x 20/2	4,87 €	I3	40 / 160
511122MPL	FASTEC x 26/3	5,09 €	I3	30 / 120

■ MPL 5711



- Raccordo ad angolo maschio.
- Male angle fitting.
- Raccord à angle mâle.
- AG Winkel-Verbinder.
- Racor codo macho.

Code	Size	Price	Class	Packaging
511001MPL	1/2" M x 16/2	4,22 €	I3	40 / 160
511002MPL	1/2" M x 20/2	5,04 €	I3	30 / 120
511003MPL	3/4" M x 20/2	6,27 €	I3	20 / 80
511004MPL	3/4" M x 26/3	7,46 €	I3	20 / 80
511113MPL	1" M x 26/3	11,39 €	I3	10 / 40
511013MPL	1" M x 32/3	12,48 €	I3	10 / 40

■ MPL 5721



- Raccordo a T maschio.
- Male tee fitting.
- Raccord à T mâle.
- AG T-Stück.
- Racor Te rosca macho.

Code	Size	Price	Class	Packaging
512029MPL	16/2 x 1/2" M x 16/2	7,71 €	I3	20 / 80
512031MPL	16/2 x 3/4" M x 16/2	9,28 €	I3	20 / 80
512030MPL	20/2 x 1/2" M x 20/2	8,63 €	I3	16 / 64
512032MPL	20/2 x 3/4" M x 20/2	9,78 €	I3	16 / 64
512067MPL	26/3 x 3/4" M x 26/3	11,40 €	I3	10 / 40

■ MPL 5722



- Raccordo a T femmina.
- Female tee fitting.
- Raccord à T femelle.
- IG T-Stück.
- Racor Te rosca hembra.

Code	Size	Price	Class	Packaging
512022MPL	16/2 x 1/2" F x 16/2	6,99 €	I3	20 / 80
512028MPL	16/2 x 3/4" F x 16/2	8,03 €	I3	16 / 64
512027MPL	20/2 x 1/2" F x 20/2	8,35 €	I3	16 / 64
512023MPL	20/2 x 3/4" F x 20/2	9,94 €	I3	16 / 64
512047MPL	26/3 x 1/2" F x 20/2	11,77 €	I3	12 / 48
512046MPL	26/3 x 1/2" F x 26/3	11,55 €	I3	12 / 48
512042MPL	26/3 x 3/4" F x 26/3	10,91 €	I3	10 / 40
512043MPL	32/3 x 3/4" F x 32/3	17,62 €	I3	10 / 40
512044MPL	32/3 x 1" F x 32/3	17,63 €	I3	10 / 40



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**MPL 5613**


- Raccordo diritto femmina.
- Straight female fitting.
- Raccord droit femelle.
- Durchgang IG Verbinder.
- Racor recto hembra.

Code	Size	Price	Class	Packaging
510011MPL	1/2" F x 16/2	3,80 €	I3	40 / 160
510109MPL	3/4" F x 16/2	4,95 €	I3	30 / 120
510012MPL	1/2" F x 20/2	4,52 €	I3	40 / 160
510013MPL	3/4" F x 20/2	5,31 €	I3	30 / 120
510014MPL	3/4" F x 26/3	6,10 €	I3	20 / 80
510047MPL	1" F x 26/3	7,21 €	I3	15 / 60
510022MPL	1" F x 32/3	9,00 €	I3	15 / 60

**MPL 5703**


- Raccordo diritto con dado girevole a tenuta piana.
- Straight fitting with flat seal and rotating nut.
- Raccord droit avec écrou tournant à joint plat étanche.
- Gerades Verbindungsstück mit flach abgedichteter drehbarer Mutter.
- Racor recto con arandela y junta de estanqueidad plana.

Code	Size	Price	Class	Packaging
510110MPL	3/8" F x 16/2	4,48 €	I3	40 / 160
510085MPL	1/2" F x 16/2	4,22 €	I3	40 / 160
510076MPL	3/4" F x 16/2	4,91 €	I3	30 / 120
510078MPL	3/4" F x 20/2	5,36 €	I3	30 / 120
510087MPL	1/2" F x 20/2	4,96 €	I3	30 / 120
510088MPL	3/4" F x 26/3	6,48 €	I3	30 / 120
510079MPL	1" F x 26/3	7,56 €	I3	25 / 100
510089MPL	1" F x 32/3	10,16 €	I3	20 / 80
510080MPL	1"1/4 F x 32/3	11,08 €	I3	15 / 60

**MPL 5705**


- Raccordo diritto con dado girevole.
- Straight fitting with rotating nut.
- Raccord droit avec écrou pivotant.
- Durchgang-Verbinder mit drehbarer Mutter.
- Racor recto con arandela.

Code	Size	Price	Class	Packaging
510017MPL	EUROK x 16/2	4,92 €	I3	30 / 120
510018MPL	EUROK x 20/2	5,72 €	I3	30 / 120

**MPL 5712**


- Raccordo ad angolo femmina.
- Female angle fitting.
- Raccord à angle femelle.
- IG Winkel-Verbinder.
- Racor codo hembra.

Code	Size	Price	Class	Packaging
511005MPL	1/2" F x 16/2	3,97 €	I3	30 / 120
511006MPL	1/2" F x 20/2	4,85 €	I3	30 / 120
511007MPL	3/4" F x 20/2	6,17 €	I3	25 / 100
511008MPL	3/4" F x 26/3	7,63 €	I3	20 / 80
511114MPL	1" F x 26/3	11,45 €	I3	10 / 40
511014MPL	1" F x 32/3	11,58 €	I3	10 / 40

**MPL 5712 L**


- Raccordo ad angolo femmina lungo.
- Female angle fitting long.
- Raccord à angle femelle long.
- IG Winkel-Verbinder lang.
- Racor codo hembra largo.

Code	Size	Price	Class	Packaging
511029MPL	1/2" F x 16/2	4,42 €	I3	25 / 100
511103MPL	1/2" F x 20/2	5,29 €	I3	25 / 100

**MPL 5717**


- Raccordo ad angolo con dado girevole a tenuta piana.
- Angle fitting with flat seal and rotating nut.
- Raccord à angle avec écrou tournant à joint plat étanche.
- Winkel-Verbindungsstück mit flach abgedichteter drehbarer Mutter.
- Racor codo con arandela y junta de estanqueidad plana.

Code	Size	Price	Class	Packaging
512033MPL	1/2" F x 16/2	6,21 €	I3	30 / 120
512034MPL	3/4" F x 16/2	6,32 €	I3	30 / 120

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■ MPL 5760



- Raccordo murale.
- Wall fitting.
- Raccord mural.
- Wand-Verbinder.
- Racor codo con base.

Code	Size	Height	Price	Class	Packaging
513001CMPL	1/2" F x 16/2	40 mm	6,68 €	I3	15 / 60
513002CMPL	1/2" F x 20/2	40 mm	7,03 €	I3	15 / 60
513001MPL	1/2" F x 16/2	52 mm	6,81 €	I3	15 / 60
513002MPL	1/2" F x 20/2	52 mm	7,63 €	I3	15 / 60
513004MPL	3/4" F x 26/3	57 mm	10,50 €	I3	10 / 40
513003MPL	3/4" F x 20/2	57 mm	9,90 €	I3	10 / 40
513001LMPL	1/2" F x 16/2	77 mm	9,89 €	I3	10 / 40
513002LMPL	1/2" F x 20/2	77 mm	10,29 €	I3	10 / 40

■ MPL 5761



- Raccordi murali (kit con AS 1929).
- Wall fittings (kit with AS 1929).
- Raccords murals (kit avec AS 1929).
- Wand-Verbinder (Kit mit AS 1929).
- Brida y racores codo (conjunto con AS 1929).

Code	Size	Height	Price	Class	Packaging
513024CMPL	1/2" F x 16/2	40 mm	18,44 €	I3	15
513025CMPL	1/2" F x 20/2	40 mm	19,14 €	I3	15
513024MPL	1/2" F x 16/2	52 mm	18,71 €	I3	15
513025MPL	1/2" F x 20/2	52 mm	20,34 €	I3	15
513024LMPL	1/2" F x 16/2	77 mm	24,84 €	I3	15
513025LMPL	1/2" F x 20/2	77 mm	25,65 €	I3	15

■ MPL 5762



- Raccordi murali (kit con AS 1927).
- Wall fittings (kit with AS 1927).
- Raccords murals (kit avec AS 1927).
- Wand-Verbinder (Kit mit AS 1927).
- Brida y racores codo (conjunto con AS 1927).

Code	Size	Height	Price	Class	Packaging
513027CMPL	1/2" F x 16/2	40 mm	21,10 €	I3	15
513029CMPL	1/2" F x 20/2	40 mm	21,80 €	I3	15
513027MPL	1/2" F x 16/2	52 mm	21,36 €	I3	15
513029MPL	1/2" F x 20/2	52 mm	23,00 €	I3	15
513027LMPL	1/2" F x 16/2	77 mm	27,50 €	I3	15
513029LMPL	1/2" F x 20/2	77 mm	28,32 €	I3	15

■ MPL 5780



- Raccordo murale doppio.
- Double wall fitting.
- Raccord mural double.
- Doppel Wand-Verbinder.
- Racor codo doble con base.

Code	Size	Price	Class	Packaging
510062MPL	1/2" F x 16/2	19,12 €	I3	8 / 32
510064MPL	1/2" F x 20/2	20,69 €	I3	8 / 32



**FOCUS: U-fittings**

See page 118.

■ MPL 5765



- Raccordi murali doppi (kit con AS 1929).
- Double wall fittings (kit with AS 1929).
- Raccords murals doubles (kit avec AS 1929).
- Doppel Wand-Verbinder (Kit mit AS 1929).
- Brida y racores codo dobles (conjunto con AS 1929).

Code	Size	Price	Class	Packaging
513036MPL	1/2" F x 16/2	43,35 €	I3	15
513038MPL	1/2" F x 20/2	46,48 €	I3	15

■ MPL 5766



- Raccordi murali doppi (kit con AS 1927).
- Double wall fittings (kit with AS 1927).
- Raccords murals doubles (kit avec AS 1927).
- Doppel Wand-Verbinder (Kit mit AS 1927).
- Brida y racores codo dobles (conjunto con AS 1927).

Code	Size	Price	Class	Packaging
513039MPL	1/2" F x 16/2	46,01 €	I3	15
513041MPL	1/2" F x 20/2	49,15 €	I3	15



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**MPL 5781**


- Raccordo murale doppio 90°.
- Double wall fitting 90°.
- Raccord mural double 90°.
- Doppel Wand-Verbinder 90°.
- Racor codo doble a 90° con base.

Code	Size	Price	Class	Packaging
511106MPL	1/2" F x 16/2	12,98 €	I3	8 / 32
511108MPL	1/2" F x 20/2	14,02 €	I3	8 / 32

**MPL 5769**


- Raccordi murali doppi 90° (kit con AS 1929).
- Double wall fittings 90° (kit with AS 1929).
- Raccords murals doubles 90° (kit avec AS 1929).
- Doppel Wand-Verbinder 90° (Kit mit AS 1929).
- Brida y racores codo dobles a 90° (conjunto con AS 1929).

Code	Size	Price	Class	Packaging
511109MPL	1/2" F x 16/2	31,05 €	I3	15
511111MPL	1/2" F x 20/2	33,14 €	I3	15

**MPL 5725**


- Terminale murale sinistro per tracce orizzontali.
- Left wall terminal for horizontal chases.
- Partie terminale murale gauche pour traces horizontales.
- Links Wandanschluss für waagerechte Rohrgänge.
- Racor terminal con base izquierdo para rozas horizontales.

Code	Size	Price	Class	Packaging
513008MPL	1/2" F x 16/2	11,17 €	I3	12 / 48
513012MPL	1/2" F x 20/2	11,46 €	I3	10 / 40

**MPL 5724**


- Terminale murale destro per tracce orizzontali.
- Right wall terminal for horizontal chases.
- Partie terminale murale droite pour traces horizontales.
- Rechts Wandanschluss für waagerechte Rohrgänge.
- Racor terminal con base derecho para rozas horizontales.

Code	Size	Price	Class	Packaging
513009MPL	1/2" F x 16/2	11,17 €	I3	12 / 48
513013MPL	1/2" F x 20/2	11,46 €	I3	12 / 48

**MPL 5764**


- Terminali murali per tracce orizzontali (kit con AS 1928).
- Wall terminals for horizontal chases (kit with AS 1928).
- Parties terminales murale pour traces horizontales (kit avec AS 1928).
- Wandanschlüsse für waagerechte Rohrgänge (Kit mit AS 1928).
- Brida y racores terminales con base para rozas horizontales (conjunto con AS 1928).

Code	Size	Price	Class	Packaging
513035MPL	1/2" F x 20/2	27,45 €	I3	15

**MPL 5763**


- Raccordi murali per tracce orizzontali (kit con AS 1928).
- Wall fittings for horizontal chases (kit with AS 1928).
- Raccords murals pour traces horizontals (kit avec AS 1928).
- Wand-Verbinder für waagerechte Rohrgänge (Kit mit AS 1928).
- Brida y racores con base para rozas horizontales (conjunto con AS 1928).

Code	Size	Price	Class	Packaging
513030MPL	1/2" F x 16/2	29,94 €	I3	15
513032MPL	1/2" F x 20/2	31,16 €	I3	15

**MPL 5701**


- Tappo.
- Plug.
- Bouchon.
- Verschluss.
- Tapón.

Code	Size	Price	Class	Packaging
510071MPL	16/2	3,81 €	I3	40 / 160
510073MPL	20/2	5,01 €	I3	40 / 160
510074MPL	26/3	6,94 €	I3	35 / 140
510075MPL	32/3	9,47 €	I3	20 / 80

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**MPL 5702**



- Raccordo diritto con tubo in rame cromato.
- Straight fitting with copper chrome plated pipe.
- Raccord droit avec tube en cuivre chromé.
- Anschluss Durchgangsform mit verchromtem Kupferrohr.
- Racor recto con tubo de cobre cromado.

Code	Size	Price	Class	Packaging
510065MPL	Ø15 x 16/2	8,30 €	I3	25 / 100
510090MPL	Ø15 x 20/2	8,89 €	I3	25 / 100
510066MPL	Ø18 x 20/2	9,28 €	I3	25 / 100
510091MPL	Ø22 x 20/2	11,85 €	I3	20 / 80
510067MPL	Ø22 x 26/3	12,36 €	I3	20 / 80
510068MPL	Ø28 x 32/3	15,13 €	I3	10 / 40

**MPL 5715**



- Raccordo ad L con tubo di rame cromato.
- L fitting with chrome-plated copper pipe.
- Raccord en L avec tube en cuivre chromé.
- Winkel-Verbinder mit verchromtem Kupferrohr.
- Racor codo con tubo de cobre cromado.

Code	Size	Height	Price	Class	Packaging
511015MPL	Ø15 x 16/2	165 mm	12,45 €	I3	100
511016MPL	Ø15 x 16/2	345 mm	17,69 €	I3	60
511017MPL	Ø15 x 16/2	1095 mm	42,16 €	I3	50
511025MPL	Ø15 x 20/2	165 mm	14,46 €	I3	80
511026MPL	Ø15 x 20/2	345 mm	19,04 €	I3	50
511027MPL	Ø15 x 20/2	1095 mm	44,94 €	I3	50

**MPL 5716**



- Raccordo a T con tubo in rame cromato.
- T fitting with chrome-plated copper pipe.
- Raccord à T avec tube en cuivre chromé.
- T-Stück mit verchromtem Kupferrohr.
- Racor en Te con tubo de cobre cromado.

Code	Size	Price	Class	Packaging
512079MPL	20/2 x Ø15 x 20/2	22,04 €	I3	25

**MPL 5729**



- Rubinetto da incasso con attacco press-fit DN 15, manopola e rosone cromati.
- Built-in valve with press-fitting connection DN 15, chromed knob and plate.
- Robinet d'encaissement avec embout de raccord à presser DN 15, poignée et rosace chromés.
- Wand-Armatur mit Pressfitting-Anschluss DN 15, verchromte Handknopf und Abdeckmanschette.
- Valvula de bola para empotrar con conexión press-fit DN 15, mando y rosetón cromados.

Code	Size	Price	Class	Packaging
510189MMPL	16/2 - 16/2	30,83 €	I3	3 / 12
510191MMPL	20/2 - 20/2	31,87 €	I3	3 / 12

**MPL 5730**



- Rubinetto da incasso con attacco press-fit DN 15, cappuccio e rosone cromati.
- Built-in valve with press-fitting connection DN 15, chromed cap and plate.
- Robinet d'encaissement avec embout de raccord à presser DN 15, capuchon et rosace chromés.
- Wand-Armatur mit Pressfitting-Anschluss DN 15, verchromte Schutzkappe und Abdeckmanschette.
- Valvula de bola para empotrar con conexión press-fit DN 15, capota y rosetón cromado.

Code	Size	Price	Class	Packaging
510189CMPL	16/2 - 16/2	35,00 €	I3	3 / 12
510191CMPL	20/2 - 20/2	35,95 €	I3	3 / 12

**AR 08 MPL**



- Boccole di ricambio per MULTI PRESS LEAK.
- Spare bushes for MULTI PRESS LEAK.
- Douilles de rechange pour MULTI PRESS LEAK.
- Ersatzhülsen für MULTI PRESS LEAK.
- Casquillo para MULTI PRESS LEAK.

Code	Size	Price	Class	Packaging
502120MPL	16/2	1,46 €	IG	50
502122MPL	20/2	1,57 €	IG	50
502124MPL	26/3	2,09 €	IG	35
502125MPL	32/3	2,25 €	IG	15



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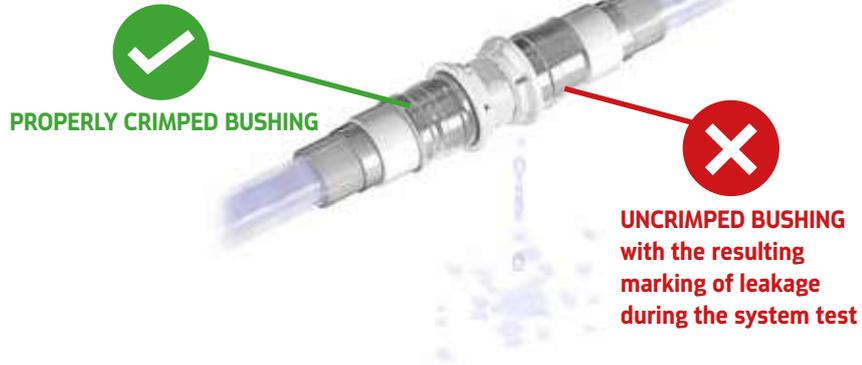
# PRESS FITTINGS P•M•P•L

PLASTIC MULTI PRESS LEAK is the new plastic press fitting designed and tested by IVAR to ensure that water leaks if the press fitting was not crimped. It is for use with any of the 7 different crimping profiles (BE, B, TH, R, H, F and U). The absence of a seal if not crimped is a function particularly requested by the market to avoid problems and damage in case someone forgot to crimp the fitting. An installer will be able to immediately identify any leaks and take remedial action by correctly crimping the fitting during the system test.

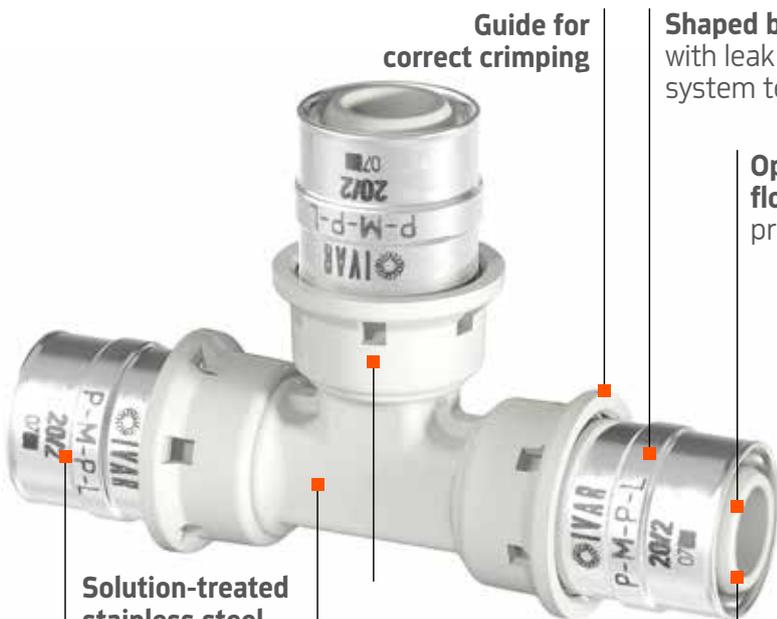
The body is made of PPSU, a plastic with high thermal and mechanical resistance that guarantees top performance and avoids problems related to corrosion that can occur with metal fittings. The material used complies with the public health regulations of several international bodies and therefore can be used for drinking water distribution. They are available in a wide range of configurations (non-threaded figures) and sizes from 16/2 to 32/3.

**Technical specifications:**

Maximum operating temperature: 120 °C  
Maximum operating static pressure: 10 bar



**+** PLUS



**Guide for correct crimping**

**Shaped bushing** with a Teflon ring with leak indication during the system test.



**Optimized water flow** (reduced pressure loss)

Ø (mm)	16	20	26	32
Spessore (mm)	2	2	3	3
BE**	■	■	■	■
B***	■	■	■	■
F***	■	■	■	■
R**	■	■	■	■
H***	■	■	■	■
TH*	■	■	■	■
U*	■	■	-	■

\*Rothenberger/Rems \*\*Rothenberger \*\*\*Rems

**Solution-treated stainless steel** to protect the crimper

**Extended slots** to check for proper pipe insertion

**Fitting can be rotated** even after crimping

**Double O-Ring** for maximum seal after crimping



- **Compatible with all TH - H/R - U - B/BE - F crimping profiles**
- **Maximum corrosion resistance**
- **Ø from 16 to 32 mm**

**PMPL 5700 R**



- **Raccordo diritto ridotto.**
- *Straight reduced fitting.*
- **Raccord droit réduit.**
- *Reduzierter Durchgangs-Verbinder.*
- **Racor recto reducido.**

Code	Size	Price	Class	Packaging
510008PMPL	16/2 x 20/2	4,33 €	II	40 / 320
510009PMPL	16/2 x 26/3	6,00 €	II	16 / 128
510010PMPL	20/2 x 26/3	6,32 €	II	16 / 128
510023PMPL	20/2 x 32/3	7,92 €	II	12 / 96
510019PMPL	26/3 x 32/3	8,77 €	II	12 / 96

**PMPL 5700**



- **Raccordo diritto.**
- *Straight fitting.*
- **Raccord droit.**
- *Kupplung.*
- **Racor recto.**

Code	Size	Price	Class	Packaging
510005PMPL	16/2 x 16/2	4,03 €	II	40 / 320
510006PMPL	20/2 x 20/2	4,70 €	II	24 / 192
510007PMPL	26/3 x 26/3	7,16 €	II	16 / 128
510020PMPL	32/3 x 32/3	10,03 €	II	12 / 96

**PMPL 5710**



- **Raccordo ad angolo.**
- *Angle fitting.*
- **Raccord à angle.**
- *Winkel-Kupplung.*
- **Racor codo.**

Code	Size	Price	Class	Packaging
511009PMPL	16/2 x 16/2	4,47 €	II	30 / 240
511010PMPL	20/2 x 20/2	5,03 €	II	24 / 192
511011PMPL	26/3 x 26/3	8,99 €	II	12 / 96
511012PMPL	32/3 x 32/3	11,77 €	II	10 / 80

**PMPL 5720**



- **Raccordo a T.**
- *Tee fitting.*
- **Raccord à T.**
- *T-Stück.*
- **Racor en Te.**

Code	Size	Price	Class	Packaging
512001PMPL	16/2 x 16/2 x 16/2	5,77 €	II	20 / 160
512002PMPL	20/2 x 20/2 x 20/2	7,63 €	II	14 / 112
512003PMPL	26/3 x 26/3 x 26/3	11,83 €	II	8 / 64
512020PMPL	32/3 x 32/3 x 32/3	17,08 €	II	6 / 48

**PMPL 5720 RLL**



- **Raccordo a T con attacchi laterali ridotti.**
- *Tee fitting with reduced side connections.*
- **Raccord à T avec connexions latérales réduites.**
- *T-Stück mit reduzierten seitlichen Anschlüssen.*
- **Racor en Te con conexiones laterales reducidas.**

Code	Size	Price	Class	Packaging
512013PMPL	16/2 x 20/2 x 16/2	7,01 €	II	14 / 112
512014PMPL	20/2 x 26/3 x 20/2	10,18 €	II	8 / 64
512051PMPL	20/2 x 32/3 x 20/2	14,22 €	II	6 / 48
512019PMPL	26/3 x 32/3 x 26/3	15,07 €	II	6 / 48

**PMPL 5720 RCL**



- **Raccordo a T con attacco centrale e laterale ridotti.**
- *Tee fitting with reduced central and side connection.*
- **Raccord à T avec connexion centrale et latérale réduites.**
- *T-Stück mit reduziertem Mittel- und Seitenanschluss.*
- **Racor en Te con conexión central y lateral reducida.**

Code	Size	Price	Class	Packaging
512009PMPL	16/2 x 16/2 x 20/2	7,01 €	II	14 / 112
512012PMPL	20/2 x 20/2 x 26/3	10,18 €	II	8 / 64
512021PMPL	20/2 x 20/2 x 32/3	14,22 €	II	6 / 48
512017PMPL	26/3 x 26/3 x 32/3	15,07 €	II	6 / 48

**PMPL 5720 RC**


- **Raccordo a T con attacco centrale ridotto.**
- *Tee fitting with reduced central connection.*
- **Raccord à T avec connexion centrale réduite.**
- *T-Stück mit reduziertem Zentralanschluss.*
- **Racor en Te con conexión central reducida.**

Code	Size	Price	Class	Packaging
512004PMPL	20/2 x 16/2 x 20/2	7,35 €	II	14 / 112
512005PMPL	26/3 x 16/2 x 26/3	10,71 €	II	8 / 64
512006PMPL	26/3 x 20/2 x 26/3	10,87 €	II	8 / 64
512015PMPL	32/3 x 16/2 x 32/3	15,33 €	II	6 / 48
512016PMPL	32/3 x 20/2 x 32/3	15,62 €	II	6 / 48
512018PMPL	32/3 x 26/3 x 32/3	16,06 €	II	6 / 48

**PMPL 5720 RL**


- **Raccordo a T con attacco laterale ridotto.**
- *Tee fitting with reduced side connection.*
- **Raccord à T avec connexion latérale réduite.**
- *T-Stück mit reduziertem seitlichen Anschluss.*
- **Racor en Te con conexión lateral reducida.**

Code	Size	Price	Class	Packaging
512007PMPL	20/2 x 20/2 x 16/2	7,35 €	II	14 / 112
512048PMPL	26/3 x 26/3 x 16/2	10,71 €	II	8 / 64
512008PMPL	26/3 x 26/3 x 20/2	10,87 €	II	8 / 64
512052PMPL	32/3 x 32/3 x 20/2	15,62 €	II	6 / 48
512053PMPL	32/3 x 32/3 x 26/3	16,06 €	II	6 / 48

**PMPL 5720 RR**


- **Raccordo a T con attacchi a doppia riduzione.**
- *Tee fitting with double reduction connections.*
- **Raccord à T avec des connexions à double réduction.**
- *T-Stück mit Doppel Reduktion Anschlüssen.*
- **Racor en Te con conexiones de doble reducción.**

Code	Size	Price	Class	Packaging
512010PMPL	26/3 x 16/2 x 20/2	9,69 €	II	8 / 64
512011PMPL	26/3 x 20/2 x 16/2	9,69 €	II	8 / 64
512050PMPL	32/3 x 20/2 x 26/3	14,31 €	II	6 / 48
512024PMPL	32/3 x 26/3 x 20/2	14,31 €	II	6 / 48

**AR 08 PMPL**


- **Boccole di ricambio per PLASTIC MULTI PRESS LEAK.**
- *Spare bushes for PLASTIC MULTI PRESS LEAK.*
- **Douilles de rechange pour PLASTIC MULTI PRESS LEAK.**
- *Ersatzhülsen für PLASTIC MULTI PRESS LEAK.*
- **Casquillo para PLASTIC MULTI PRESS LEAK.**

Code	Size	Price	Class	Packaging
502120PMPL	16/2	1,57 €	IG	50
502122PMPL	20/2	1,67 €	IG	50
502124PMPL	26/3	2,19 €	IG	35
502125PMPL	32/3	2,35 €	IG	30

# ACCESSORIES FOR M•P - M•P•L

## AR 21



- Vitone per rubinetto da incasso serie MP/MPL 5729-5730.
- Headwork for built in valve series MP/MPL 5729-5730.
- Insert pour robinet à encastrement série MP/MPL 5729-5730.
- Reguliervorrichtung für Einbauhahn Serie MP/MPL 5729-5730.
- Montura para valvula de bola para empotrar serie MP/MPL 5729-5730.

Code	Size	Price	Class	Packaging
550196	DN 15	10,17 €	IG	20 / 160

## AR 22



- Prolunga per rubinetto da incasso.
- Extension for built in valve.
- Rallonge pour robinet à encastrement.
- Verlängerung für Einbauhahn.
- Extención para grifo empotrable.

Code	Size	Price	Class	Packaging
550199	DN 15	3,34 €	IG	50 / 400

## AR 23



- Kit manopola e rosone cromati per rubinetto da incasso serie MP/MPL 5729-5730 con attacco press-fit DN 15.
- Kit chromed knob and plate for built-in valve series MP/MPL 5729-5730 with press-fitting connection DN 15.
- Kit poignée et rosace chromés pour robinet d'encaissement série MP/MPL 5729-5730 avec embout de raccord à presser DN 15.
- Kit verchromte Handknopf und Abdeckmanschette für Wand-Armatur Serie MP/MPL 5729-5730 mit Pressfitting-Anschluss DN 15.
- Kit mando y rosetón cromados para valvula de bola para empotrar serie MP/MPL 5729-5730 con conexión press-fit DN 15.

Code	Price	Class	Packaging
550198	19,13 €	IG	10 / 80

## AR 24



- Kit cappuccio e rosone cromati per rubinetto da incasso serie MP/MPL 5729-5730 con attacco press-fit DN 15.
- Kit chromed cap and plate for built-in valve series MP/MPL 5729-5730 with press-fitting connection DN 15.
- Kit capuchon et rosace chromés pour robinet d'encaissement série MP/MPL 5729-5730 avec embout de raccord à presser DN 15.
- Kit verchromte Schutzkappe und Abdeckmanschette für Wand-Armatur Serie MP/MPL 5729-5730 mit Pressfitting-Anschluss DN 15.
- Kit capucho y rosetón cromados para valvula de bola para empotrar serie MP/MPL 5729-5730 con conexión press-fit DN 15.

Code	Price	Class	Packaging
550197	11,36 €	IG	10 / 80

## AS 1929



- Staffa per raccordo murale.
- Bracket for wall fitting.
- Etrier pour raccord mural.
- Halterung für Wand-Verbinder.
- Brida para racores con base.

Code	Size	Price	Class	Packaging
500574	Distance 153 mm	2,71 €	JC	100

## AS 1927



- Staffa per raccordo murale.
- Bracket for wall fitting.
- Etrier pour raccord mural.
- Halterung für Wand-Verbinder.
- Brida para racores con base.

Code	Size	Price	Class	Packaging
510000	Distance 100 / 153 mm	5,21 €	JC	2 / 100

## AS 1928



- Staffa per raccordi murali per tracce orizzontali.
- Wall fitting hanger for horizontal chases.
- Etrier pour raccords muraux pour traces horizontales.
- Halterung für Wand-Verbinder für waagerechte Rohrgänge.
- Brida para racores con base para rozas horizontales.

Code	Size	Price	Class	Packaging
510037	Distance 100 / 150 mm	2,18 €	IG	2 / 30

## AR 07

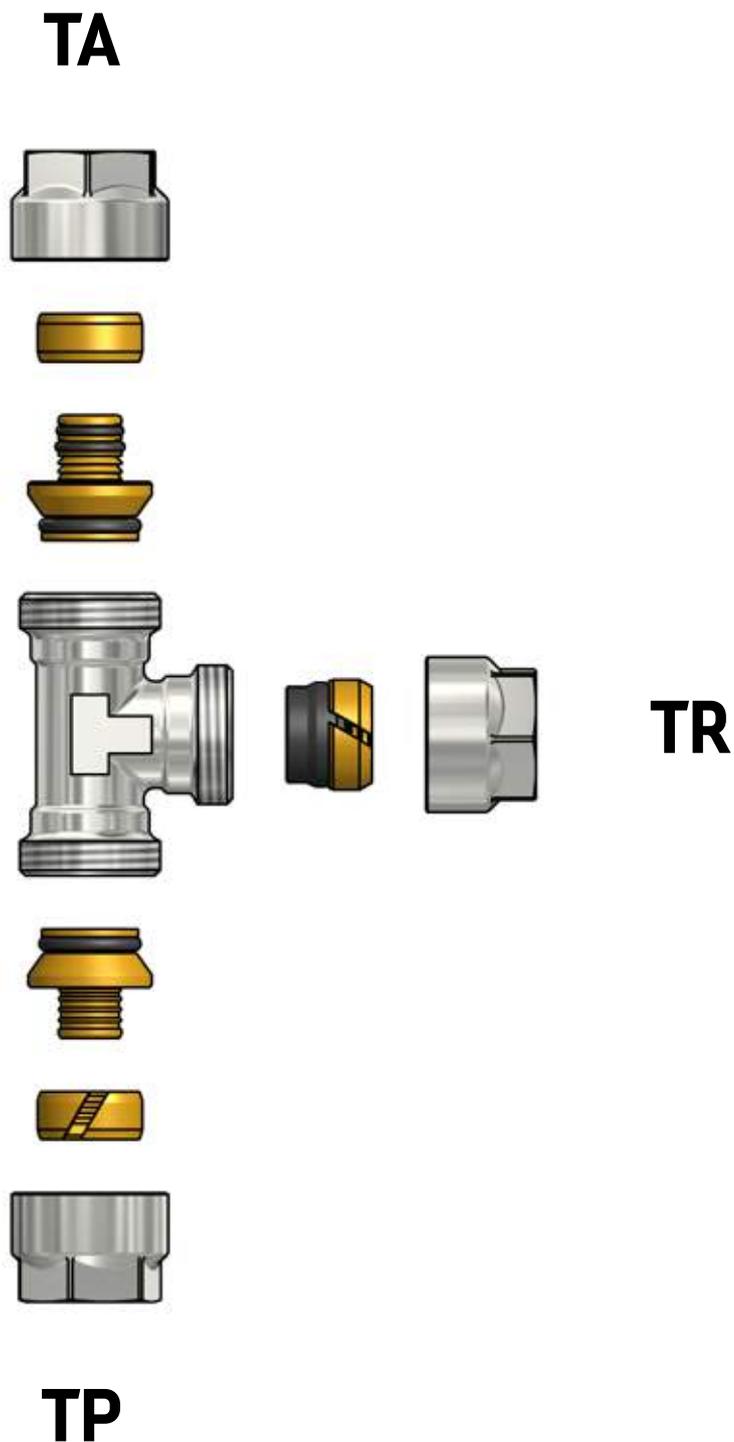


- Isolante per raccordo doppio T incrociato.
- Insulation for double crossed T fitting.
- Isolant pour raccord double T croisé.
- Abdichtung für Doppel-T-Stück überkreuzt.
- Aislamiento para racor en Te doble cruzado.

Code	Price	Class	Packaging
501804	4,36 €	JC	18

# BASIC FITTINGS

This section also presents standard fitting elements such as elbows, tees with traditional threads and, in some cases, connections suitable for the application of screw fittings for copper, multilayer or polyethylene pipes. The figures with Eurokonus or EK connections can mount all the screw fittings of the 4000 series (TR, TP or TA) depending on the pipe used.



### AC 4604



- **Raccordo diritto maschio - maschio.**
- *Straight male-male fitting.*
- **Raccord droit mâle - mâle.**
- *Durchgang AG x AG Schraubverbinder.*
- **Racor recto macho - macho.**

Code	Size	Color	Price	Class	Packaging
500667	3/4" M O-ring x EUROK		2,48 €	KA	50 / 400
500667N	3/4" M O-ring x EUROK		2,58 €	KA	50 / 400

### RR 4608



- **Raccordo diritto maschio - maschio.**
- *Straight male - male fitting.*
- **Raccord droit mâle - mâle.**
- *Durchgang AG - AG Schraubverbinder.*
- **Racor recto macho - macho.**

Code	Size	Color	Price	Class	Packaging
500059	1/2" M x EUROK		2,54 €	KA	50 / 400
500176	3/4" M x EUROK		2,53 €	KA	50 / 200
500077	1/2" M x EUROK		2,56 €	KA	50 / 200
500177	3/4" M x EUROK		2,65 €	KA	50 / 200

### RR 4700



- **Raccordo diritto maschio - maschio.**
- *Straight male - male fitting.*
- **Raccord droit mâle - mâle.**
- *Durchgang AG - AG Schraubverbinder.*
- **Racor recto macho - macho.**

Code	Size	Color	Price	Class	Packaging
500377	EUROK x EUROK		2,30 €	KA	50 / 400
500378	EUROK x EUROK		2,32 €	KA	50 / 400

### RR 703



- **Nipplo maschio - maschio.**
- *Male nipple - male.*
- **Nipple mâle - mâle.**
- *Anschlussstück AG - AG.*
- **Entrerrosca macho - macho.**

Code	Size	Color	Price	Class	Packaging
501131	1/2" M x 1/2" M		1,92 €	KA	100 / 800
501132	3/4" M x 3/4" M		2,48 €	KA	50 / 400
501419	1"1/2 M x 1"1/2 M		10,29 €	KA	50 / 400
501131N	1/2" M x 1/2" M		2,00 €	KA	100 / 800
501132N	3/4" M x 3/4" M		2,56 €	KA	50 / 400
501419N	1"1/2 M x 1"1/2 M		10,56 €	KA	50 / 400

**AC 624**


- **Riduzione femmina - femmina.**
- *Female - female reducing fitting.*
- **Réduction femelle - femelle.**
- *Reduzierstück Innengewinde - Innengewinde*
- **Reducción hembra - hembra.**

Code	Size	Color	Price	Class	Packaging
501619	3/4" F x 3/8" F	■	2,35 €	NJ	100 / 800
501618	3/4" F x 1/2" F	■	2,35 €	NJ	100 / 400
501620	1" F x 1/2" F	■	3,10 €	NJ	50 / 400
501621	1" F x 3/4" F	■	3,10 €	NJ	50 / 400
501619N	3/4" F x 3/8" F	■	2,38 €	NJ	100 / 800
501618N	3/4" F x 1/2" F	■	2,38 €	NJ	100 / 400
501620N	1" F x 1/2" F	■	3,20 €	NJ	50 / 400
501621N	1" F x 3/4" F	■	3,20 €	NJ	50 / 400

**RF 800**


- **Manicotto femmina - femmina.**
- *Female-female sleeve.*
- **Embout femelle - femelle.**
- *IG x IG Muffe.*
- **Manguito hembra - hembra.**

Code	Size	Color	Price	Class	Packaging
506610	3/8" F x 3/8" F	■	1,74 €	KA	50 / 400
501094	1/2" F x 1/2" F	■	2,02 €	KA	50 / 400
501095	3/4" F x 3/4" F	■	2,63 €	KA	35 / 280
501096	1" F x 1" F	■	5,13 €	KA	25 / 200
506611	1"1/4 F x 1"1/4 F	■	6,33 €	KA	20 / 80
506612	1"1/2 F x 1"1/2 F	■	10,64 €	KA	15 / 120
506613	2" F x 2" F	■	17,42 €	KA	1
506610N	3/8" F x 3/8" F	■	1,77 €	KA	50 / 400
500915	1/2" F x 1/2" F	■	2,05 €	KA	50 / 400
500916	3/4" F x 3/4" F	■	2,67 €	KA	35 / 280
500917	1" F x 1" F	■	5,30 €	KA	25 / 200
506611N	1"1/4 F x 1"1/4 F	■	6,97 €	KA	20 / 80
506612N	1"1/2 F x 1"1/2 F	■	10,91 €	KA	50 / 400
506613N	2" F x 2" F	■	17,84 €	KA	1

## RF 810



- Raccordo ad angolo femmina - femmina.
- Female - female angle fitting.
- Raccord à angle femelle - femelle.
- IG - IG Winkel-Schraubverbinder.
- Racor codo hembra - hembra.

Code	Size	Color	Price	Class	Packaging
506614	3/8" F x 3/8" F	■	3,13 €	KA	40 / 320
501063	1/2" F x 1/2" F	■	3,36 €	KA	40 / 320
501064	3/4" F x 3/4" F	■	4,35 €	KA	20 / 160
501065	1" F x 1" F	■	8,19 €	KA	10 / 80
506615	1"1/4 F x 1"1/4 F	■	13,27 €	KA	10 / 80
506616	1"1/2 F x 1"1/2 F	■	18,96 €	KA	5 / 40
506617	2" F x 2" F	■	35,46 €	KA	40 / 320
506614N	3/8" F x 3/8" F	■	3,18 €	KA	40 / 320
501107	1/2" F x 1/2" F	■	3,52 €	KA	40 / 320
501307	3/4" F x 3/4" F	■	4,41 €	KA	20 / 160
500672	1" F x 1" F	■	8,31 €	KA	10 / 80
506615N	1"1/4 F x 1"1/4 F	■	13,46 €	KA	10 / 80
506616N	1"1/2 F x 1"1/2 F	■	19,34 €	KA	5 / 40
506617N	2" F x 2" F	■	35,83 €	KA	40 / 320

## RF 820



- Raccordo a T femmina.
- Female tee fitting.
- Raccord à T femelle.
- IG T-Anschluss.
- Racores T hembra.

Code	Size	Color	Price	Class	Packaging
506622	3/8" F x 3/8" F x 3/8" F	■	3,69 €	KA	25 / 200
501066	1/2" F x 1/2" F x 1/2" F	■	3,66 €	KA	25 / 200
501067	3/4" F x 3/4" F x 3/4" F	■	4,58 €	KA	15 / 120
501068	1" F x 1" F x 1" F	■	9,09 €	KA	10 / 80
506623	1"1/4 F x 1"1/4 F x 1"1/4 F	■	16,36 €	KA	5 / 40
506624	1"1/2 F x 1"1/2 F x 1"1/2 F	■	24,16 €	KA	5 / 40
506625	2" F x 2" F x 2" F	■	31,19 €	KA	25 / 200
506622N	3/8" F x 3/8" F x 3/8" F	■	3,74 €	KA	25 / 200
501041	1/2" F x 1/2" F x 1/2" F	■	3,64 €	KA	25 / 200
501042	3/4" F x 3/4" F x 3/4" F	■	4,66 €	KA	15 / 120
501043	1" F x 1" F x 1" F	■	9,19 €	KA	10 / 80
506623N	1"1/4 F x 1"1/4 F x 1"1/4 F	■	16,98 €	KA	5 / 40
506624N	1"1/2 F x 1"1/2 F x 1"1/2 F	■	24,53 €	KA	5 / 40
506625N	2" F x 2" F x 2" F	■	31,64 €	KA	25 / 200

**RF 811**


- **Raccordo ad L femmina - maschio.**
- *Female - male L fitting.*
- **Raccord en L femelle - mâle.**
- *IG - AG Winkel - Schraubverbinder.*
- **Racor codo hembra - macho.**

Code	Size	Color	Price	Class	Packaging
506618	3/8" F x 3/8" M	■	3,21 €	KA	40 / 320
501078	1/2" F x 1/2" M	■	3,14 €	KA	40 / 320
501079	3/4" F x 3/4" M	■	4,80 €	KA	20 / 160
501082	1" F x 1" M	■	7,69 €	KA	10 / 80
506619	1"1/4 F x 1"1/4 M	■	12,79 €	KA	6 / 48
506620	1"1/2 F x 1"1/2 M	■	18,36 €	KA	6 / 48
506621	2" F x 2" M	■	35,10 €	KA	40 / 320
506618N	3/8" F x 3/8" M	■	3,25 €	KA	40 / 320
501023	1/2" F x 1/2" M	■	3,11 €	KA	40 / 320
501024	3/4" F x 3/4" M	■	4,97 €	KA	20 / 160
501058	1" F x 1" M	■	7,94 €	KA	10 / 80
506619N	1"1/4 F x 1"1/4 M	■	12,99 €	KA	6 / 48
506620N	1"1/2 F x 1"1/2 M	■	18,62 €	KA	6 / 48
506621N	2" F x 2" M	■	35,62 €	KA	40 / 320

**RR 4711**


- **Raccordo ad angolo maschio - maschio.**
- *Male - male angle fitting.*
- **Raccord à angle mâle - mâle.**
- *AG - AG Winkel-Schraubverbinder.*
- **Racor codo macho - macho.**

Code	Size	Color	Price	Class	Packaging
500099	1/2" M x EUROK	■	3,50 €	KA	40 / 320
500193	3/4" M x EUROK	■	4,77 €	KA	30 / 240
500118	1/2" M x EUROK	■	3,73 €	KA	40 / 320
500194	3/4" M x EUROK	■	4,90 €	KA	30 / 240

**RR 4721**


- **Raccordo a T maschio - maschio - maschio.**
- *Male - male - male tee fitting.*
- **Raccord à T mâle - mâle - mâle.**
- *AG - AG - AG T-Stück.*
- **Racor en Te macho - macho - macho.**

Code	Size	Color	Price	Class	Packaging
500137	EUROK x 1/2" M x EUROK	■	4,02 €	KA	30 / 240
500199	EUROK x 3/4" M x EUROK	■	4,52 €	KA	30 / 240
500138	EUROK x 1/2" M x EUROK	■	4,17 €	KA	30 / 240
500181	EUROK x 3/4" M x EUROK	■	4,65 €	KA	30 / 240

### RR 4613



- Raccordo diritto maschio - femmina.
- Straight male-female fitting.
- Raccord droit mâle-femelle.
- Durchgang AG x IG Schraubverbinder.
- Racor recto macho - hembra.

Code	Size	Color	Price	Class	Packaging
500080	1/2" F x EUROK		2,14 €	KA	50 / 200
500174	3/4" F x EUROK		2,77 €	KA	40 / 160
500081	1/2" F x EUROK		2,19 €	KA	50 / 200
500175	3/4" F x EUROK		2,87 €	KA	40 / 160

### RR 4712



- Raccordo ad angolo maschio - femmina.
- Male - female angle fitting.
- Raccord à angle mâle - femelle.
- AG - IG Winkel-Schraubverbinder.
- Racor codo macho - hembra.

Code	Size	Color	Price	Class	Packaging
500119	1/2" F x EUROK		3,05 €	KA	40 / 320
500195	3/4" F x EUROK		4,62 €	KA	25 / 200
500120	1/2" F x EUROK		3,15 €	KA	40 / 320
500196	3/4" F x EUROK		4,77 €	KA	25 / 200

### RR 4722



- Raccordo a T maschio - femmina - maschio.
- Male - female - male tee fitting.
- Raccord à T mâle - femelle - mâle.
- AG - IG - AG T-Stück.
- Racor en Te macho - hembra - macho.

Code	Size	Color	Price	Class	Packaging
500139	EUROK x 1/2" F x EUROK		3,89 €	KA	30 / 240
500197	EUROK x 3/4" F x EUROK		4,96 €	KA	25 / 200
500140	EUROK x 1/2" F x EUROK		3,99 €	KA	30 / 240
500198	EUROK x 3/4" F x EUROK		5,07 €	KA	25 / 200

**RR 4710**


- Raccordo ad angolo maschio - maschio.
- Male - male angle fitting.
- Raccord à angle mâle - mâle.
- AG - AG Winkel-Schraubverbinder.
- Racor codo macho - macho.

Code	Size	Color	Price	Class	Packaging
500097	EUROK x EUROK		3,68 €	KA	40 / 320
500098	EUROK x EUROK		3,89 €	KA	40 / 320

**RR 4720**


- Raccordo a T maschio - maschio - maschio.
- Male - male - male tee fitting.
- Raccord à T mâle - mâle - mâle.
- AG - AG - AG T-Stück.
- Racor en Te macho - macho - macho.

Code	Size	Color	Price	Class	Packaging
500135	EUROK x EUROK x EUROK		4,31 €	KA	25 / 200
500136	EUROK x EUROK x EUROK		4,47 €	KA	25 / 200

**RM 4760**


- Raccordo murale.
- Wall fitting.
- Raccord mural.
- Wand-Schraubverbinder.
- Racor codo con base.

Code	Size	Color	Price	Class	Packaging
500594	1/2" F x EUROK		4,52 €	KA	25 / 200
500307	3/4" F x EUROK		6,63 €	KA	25 / 100

**RMK 4760**


- Raccordi murali (kit con AS 1929).
- Wall fittings (kit with AS 1929).
- Raccords murals (kit avec AS 1929).
- Wand-Verbinder (Kit mit AS 1929).
- Brida y racores codo con base (conjunto con AS 1929).

Code	Size	Color	Price	Class	Packaging
506102	1/2" F x EUROK		11,38 €	KA	15
506103	3/4" F x EUROK		15,62 €	KA	15

**RMK 4761**


- Raccordi murali (kit con AS 1927).
- Wall fittings (kit with AS 1927).
- Raccords murals (kit avec AS 1927).
- Wand-Verbinder (Kit mit AS 1927).
- Brida y racores codo con base (conjunto con AS 1927).

Code	Size	Color	Price	Class	Packaging
506106	1/2" F x EUROK		13,73 €	KA	15
506107	3/4" F x EUROK		17,61 €	KA	15

### RM 4770



- Raccordo murale doppio.
- Double wall fitting.
- Raccord mural double.
- Doppel-Wand-Schraubverbinder.
- Racor codo doble con base.

## FOCUS: U-fittings

See page 118.

Code	Size	Color	Price	Class	Packaging
500405	1/2" F x EUROK		10,82 €	KA	10 / 80

### RMK 4770



- Raccordi murali doppi (kit con AS 1929).
- Double wall fittings (kit with AS 1929).
- Raccords murals doubles (kit avec AS 1929).
- Doppel Wand-Verbinder (Kit mit AS 1929).
- Brida y racores codo dobles con base (conjunto con AS 1929).

Code	Size	Color	Price	Class	Packaging
506109	1/2" F x EUROK		24,39 €	KA	15

### RMK 4771



- Raccordi murali doppi (kit con AS 1927).
- Double wall fittings (kit with AS 1927).
- Raccords murals doubles (kit avec AS 1927).
- Doppel Wand-Verbinder (Kit mit AS 1927).
- Brida y racores codo dobles con base (conjunto con AS 1927).

Code	Size	Color	Price	Class	Packaging
506111	1/2" F x EUROK		26,74 €	KA	15

### RR 4723



- Raccordo doppio T incrociato per impianti a battiscopa.
- Double crossed T fitting for skirting board plants.
- Raccord à double T croisé pour installations à la plinthe.
- Doppel T-Stück für Sockenleiste.
- Racor T doble cruzado para sistemas en zócalos.

Code	Size	Color	Price	Class	Packaging
500261N	EUROK x 6		19,41 €	KA	8 / 64

### AS 1929



- Staffa per raccordo murale.
- Bracket for wall fitting.
- Etrier pour raccord mural.
- Halterung für Wand-Verbinder.
- Brida para racores con base.

Code	Size	Price	Class	Packaging
500574	Distance 153 mm	2,71 €	JC	100

### AS 1927



- Staffa per raccordo murale.
- Bracket for wall fitting.
- Etrier pour raccord mural.
- Halterung für Wand-Verbinder.
- Brida para racores con base.

Code	Size	Price	Class	Packaging
510000	Distance 100 / 153 mm	5,21 €	JC	2 / 100

**RM 780**


- **Raccordo murale doppio femmina.**
- *Double female wall fitting.*
- **Raccord mural double femelle.**
- *Doppel IG Wand-Schraubverbinder.*
- **Racor codo doble hembra.**

**FOCUS: U-fittings**
**See page 118.**

Code	Size	Color	Price	Class	Packaging
500401	1/2" F x 1/2" F		11,20 €	KA	10 / 80

**RMK 780**


- **Raccordi murali doppi femmina (kit con AS 1929).**
- *Double female wall fittings (kit with AS 1929).*
- **Raccords murals doubles femelle (kit avec AS 1929).**
- *Doppel IG Wand-Verbinder (Kit mit AS 1929).*
- **Brida y racores codo dobles hembra con base (conjunto con AS 1929).**

Code	Size	Color	Price	Class	Packaging
506112	1/2" F x 1/2" F		25,21 €	KA	10 / 80

**RMK 781**


- **Raccordi murali doppi femmina (kit con AS 1927).**
- *Double female wall fittings (kit with AS 1927).*
- **Raccords murals doubles femelle (kit avec AS 1927).**
- *Doppel IG Wand-Verbinder (Kit mit AS 1927).*
- **Brida y racores codo dobles hembra con base (conjunto con AS 1927).**

Code	Size	Color	Price	Class	Packaging
506113	1/2" F x 1/2" F		27,56 €	KA	15

**RR 723**


- **Raccordo doppio T incrociato per impianti a battiscopa.**
- *Double crossed T fitting for skirting board plants.*
- **Raccord à double T croisé pour installations à la plinthe.**
- *Doppel T-Stück für Sockenleiste..*
- **Racor T doble cruzado para sistemas en zócalos.**

Code	Size	Color	Price	Class	Packaging
500259N	1/2" F x 6		19,07 €	KA	6 / 48

**RR 704**


- **Tubo cromato ad S per impianti a battiscopa.**
- *S chromed pipe for skirting board plants.*
- **Tube chromé à S pour installations à la plinthe.**
- *Verchrome S-Rohr für Sockenleiste.*
- **Tubo cromado S para sistemas en zócalos.**

Code	Size	Price	Class	Packaging
500060	Ø15	6,36 €	JC	12 / 96

**AR 07**

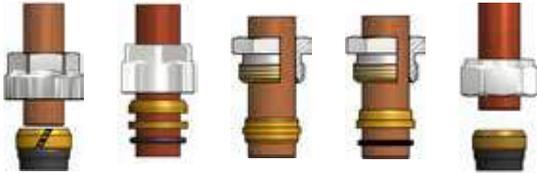

- **Isolante per raccordo doppio T incrociato.**
- *Insulation for double crossed T fitting.*
- **Isolant pour raccord double T croisé.**
- *Abdichtung für Doppel-T-Stück überkreuzt.*
- **Aislamiento para racor en Te doble cruzado.**

Code	Price	Class	Packaging
501804	4,36 €	JC	18

# SCREW FITTINGS

The range of IVAR screw fittings is extremely complete, with connections for different types of pipes such as copper (TR), multilayer (TA) and polyethylene (TP). The fittings are compatible with the Eurokonus standard and each type has several variants depending on the outside diameter and thickness of the pipe.

The offer is completed with pre-assembled solutions (RR, RA, RP) with male or female connection on straight or elbow terminals.

Soft copper	Semi-hard copper	Mild steel	Multilayer	Cross-linked polyethylene
45 Nm ≤ T ≤ 55 Nm	60 Nm ≤ T ≤ 80 Nm	60 Nm ≤ T ≤ 70 Nm	20 Nm ≤ T ≤ 30 Nm	30 Nm ≤ T ≤ 40 Nm
				

T = Max. tightening torque

## TR 4430



- Raccordo EUROK per tubo rame ed acciaio dolce.
- EUROK fitting for copper and mild steel pipe.
- Raccord EUROK pour tube en cuivre et en acier doux.
- EUROK-Verschraubung für Kupferrohre und Weichstahlrohre.
- Conexión EUROK para tubo de cobre y acero dulce.

Code	Size	Color	Price	Class	Packaging
500998	EUROK x 10/1	■	2,51 €	JA	40 / 320
500157	EUROK x 12/1	■	2,05 €	JA	40 / 320
500024	EUROK x 14/1	■	2,05 €	JA	40 / 320
500025	EUROK x 15/1	■	2,05 €	JA	40 / 320
500026	EUROK x 16/1	■	2,05 €	JA	40 / 320

## TR 4430-18



- Raccordo EUROK per tubo rame ed acciaio dolce.
- EUROK fitting for copper and mild steel pipe.
- Raccord EUROK pour tube en cuivre et en acier doux.
- EUROK-Verschraubung für Kupferrohre und Weichstahlrohre.
- Conexión EUROK para tubo de cobre y acero dulce.

Code	Size	Color	Price	Class	Packaging
500417	EUROK x 18/1	■	3,29 €	JA	40 / 320



## FOCUS: Screw fittings for both multilayer and PEX pipe

The new range of crimp fittings for multilayer pipes, which can also be used with PEX pipe, is now available: **one single fitting for two types of pipe.**



### PLUS

- Suitable both for multilayer and PEX pipes.
- The pipe can be inserted without having to perform calibration or chamfering, with consequent time savings.
- Larger internal bore: ensures reduced pressure drops and maximum pipe pull-out resistance.
- O-ring to prevent the metal part of the pipe from coming into contact with the brass, ensuring correct galvanic isolation and preventing corrosion due to stray currents.
- Reduced risk of O-ring damage when inserting the pipe.
- With PEX pipe, the O-ring ensures complete reliability during operation, eliminating the risk of leaks due to extreme conditions.

### TA 4420



- **Raccordo EUROK per tubo multistrato e in polietilene.**
- *EUROK fitting for multilayer and polyethylene pipe.*
- **Raccord EUROK pour tube multicouches et en polyéthylène.**
- *EUROK-Verschraubung für Verbund- und für Polyäthylen-Rohr.*
- **Conexión EUROK para tubo multicapa y de polietileno.**

Code	Size	Color	Price	Class	Packaging
506061	EUROK x 12/1,8	■	2,98 €	JA	40 / 320
500683	EUROK x 14/2	■	2,98 €	JA	40 / 320
500400	EUROK x 15/1,5	■	3,02 €	JA	40 / 320
500684	EUROK x 16/2	■	2,98 €	JA	40 / 320
500579	EUROK x 16/2,25	■	2,98 €	JA	40 / 320
506040	EUROK x 16,2/2,6	■	2,98 €	JA	40 / 320
500012	EUROK x 17/2	■	3,19 €	JA	40 / 320
500685	EUROK x 18/2	■	3,19 €	JA	40 / 320
500754	EUROK x 18/2,5	■	3,19 €	JA	40 / 320
500914	EUROK x 20/2	■	3,33 €	JA	40 / 320
500009	EUROK x 20/2,25	■	3,50 €	JA	40 / 320
501010	EUROK x 20/2,5	■	3,33 €	JA	40 / 320
506295	EUROK x 20/2,9	■	4,55 €	JA	40 / 320

### TP 4410



- **Raccordo EUROK per tubo in polietilene.**
- *EUROK fitting for polyethylene pipe.*
- **Raccord EUROK pour tube en polyéthylène.**
- *EUROK-Verschraubung für Polyäthylen-Rohr.*
- **Conexión EUROK para tubo de polietileno.**

Code	Size	Color	Price	Class	Packaging
500590	EUROK x 12/1		2,79 €	JA	40 / 320
520041	EUROK x 12/2		2,75 €	JA	40 / 320
500679	EUROK x 14/2		2,75 €	JA	40 / 320
500148	EUROK x 15/1,7		2,98 €	JA	40 / 320
500769	EUROK x 15/2,5		2,86 €	JA	40 / 320
500591	EUROK x 16/1,5		2,69 €	JA	40 / 320
500680	EUROK x 16/2		2,69 €	JA	40 / 320
500681	EUROK x 16/2,2		2,69 €	JA	40 / 320
500682	EUROK x 17/2		2,86 €	JA	40 / 320
500145	EUROK x 18/1,8		2,86 €	JA	40 / 320
500650	EUROK x 18/2		3,19 €	JA	40 / 320
506020	EUROK x 18/2,5		2,86 €	JA	40 / 320
500651	EUROK x 20/2		3,19 €	JA	40 / 320
500649	EUROK x 20/2,8		3,08 €	JA	40 / 320
506200	EUROK x 20/3,4		3,08 €	JA	40 / 320
500753	EUROK x 21/2,5		3,47 €	JA	40 / 320

### TP 4410 HK



- **Raccordo EUROK per tubo in polietilene.**
- *EUROK fitting for polyethylene pipe.*
- **Raccord EUROK pour tube en polyéthylène.**
- *EUROK-Verschraubung für Polyäthylen-Rohr.*
- **Conexión EUROK para tubo de polietileno.**

Code	Size	Price	Class	Packaging
TFEK10-1	EUROK x 10/1,3	3,58 €	JA	2

**TR 401**


- **Raccordo per tubo rame ed acciaio dolce con ogiva ricotta.**
- *Fitting for copper and mild steel pipe with annealed ogive.*
- **Raccord pour tube en cuivre et en acier doux avec ogive recuite.**
- *Verschraubung für Kupferrohre und Weichstahlrohre mit geglühtem Klemmring.*
- **Conexión para tubo de cobre y acero dulce con ojiva recocida.**

Code	Size	Color	Price	Class	Packaging
501047	G 1/2" x 15/1	■	1,58 €	JA	100 / 800

**TR 402**


- **Raccordo per tubo rame ed acciaio dolce con ogiva e o-ring.**
- *Fitting for copper and mild steel with ogive and o-ring.*
- **Raccord pour tube en cuivre et en acier doux avec ogive et joint torique.**
- *Verschraubung für Kupferrohre und Weichstahlrohre mit Klemmring und O-Ring.*
- **Conexión para tubo de cobre y acero dulce con ojiva y o-ring.**

Code	Size	Color	Price	Class	Packaging
501009	G 1/2" x 15/1	■	1,68 €	JA	100 / 800

**TR 430 P**


- **Raccordo 1/2" F per tubo rame ed acciaio dolce con bussola in NBR.**
- *1/2" F fitting for copper and mild steel pipe with NBR bushing.*
- **Raccord 1/2" F pour tube en cuivre et en acier doux avec douille en NBR.**
- *Verschraubung 1/2" IG für Kupferrohre und Weichstahlrohre mit Hülsen aus NBR.*
- **Conexión 1/2" F para tubo de cobre y acero dulce con buje en NBR.**

Code	Size	Color	Price	Class	Packaging
506260	1/2" F x 10/1	■	2,04 €	JA	50 / 400
506261	1/2" F x 12/1	■	2,04 €	JA	50 / 400
506262	1/2" F x 14/1	■	2,04 €	JA	50 / 400
506263	1/2" F x 15/1	■	2,25 €	JA	50 / 400
506264	1/2" F x 16/1	■	2,25 €	JA	50 / 400

**RR 781 N**


- **Raccordo per tubo rame ed acciaio dolce EUROK x 1/2" M.**
- *Fitting for copper and mild steel pipe EUROK x 1/2" M.*
- **Raccord pour tube en cuivre et en acier doux EUROK x 1/2" M.**
- *EUROK x 1/2" AG Verschraubung für Kupferrohre und Weichstahlrohre.*
- **Racor de compresión para tubo de cobre y acero dulce EUROK x 1/2" M.**

Code	Size	Color	Price	Class	Packaging
570051N	1/2" M x 10/1	■	4,00 €	LA	50 / 400
570053N	1/2" M x 12/1	■	4,00 €	LA	50 / 400
570054N	1/2" M x 14/1	■	4,00 €	LA	50 / 400
570055N	1/2" M x 15/1	■	4,00 €	LA	40 / 320
570056N	1/2" M x 16/1	■	4,00 €	LA	50 / 400
570057N	1/2" M x 18/1	■	5,11 €	LA	50 / 400

### TA 420 P



- Raccordo 1/2" F per tubo multistrato e in polietilene.
- 1/2" F fitting for multilayer and polyethylene pipe.
- Raccord 1/2" F pour tube multicouches et en polyéthylène.
- Verschraubung 1/2" IG für Verbund- und für Polyäthylen-Rohr.
- Conexión 1/2" F para tubo multicapa y de polietileno.

Code	Size	Color	Price	Class	Packaging
506265	1/2" F x 14/2	■	2,40 €	JA	50 / 400
500759	1/2" F x 16/2	■	2,40 €	JA	40 / 320
506267	1/2" F x 16/2,25	■	2,40 €	JA	50 / 400

### RA 761 N



- Raccordo per tubo multistrato EUROK x 1/2" M.
- Fitting for multilayer pipe EUROK x 1/2" M.
- Raccord pour tube multicouches EUROK x 1/2" M.
- EUROK x 1/2" AG Verschraubung für Verbundrohr.
- Racor de compresión para tubo multicapa EUROK x 1/2" M.

Code	Size	Color	Price	Class	Packaging
570000N	1/2" M x 14/2	■	5,11 €	LA	50 / 200
570001N	1/2" M x 15/1,5	■	5,11 €	LA	50 / 200
570002N	1/2" M x 16 /2	■	5,11 €	LA	50 / 200
570003N	1/2" M x 16/2,25	■	5,11 €	LA	50 / 200
570004N	1/2" M x 17/2	■	5,23 €	LA	50 / 200
570005N	1/2" M x 18/2	■	5,23 €	LA	50 / 200
570006N	1/2" M x 18/2,5	■	5,23 €	LA	50 / 200
570007N	1/2" M x 20/2	■	5,39 €	LA	50 / 200
570008N	1/2" M x 20/2,25	■	5,39 €	LA	50 / 200
570009N	1/2" M x 20/2,5	■	5,39 €	LA	25 / 100

**TP 410 P**


- Raccordo 1/2" F per tubo in polietilene.
- 1/2" F fitting for polyethylene pipe.
- Raccord 1/2" F pour tube en polyéthylène.
- Verschraubung 1/2" IG für Polyäthylen-Rohr.
- Conexión 1/2" F para tubo de polietileno.

Code	Size	Color	Price	Class	Packaging
506268	1/2" F x 12/1,1	■	2,40 €	JA	50 / 400
506269	1/2" F x 12/2	■	2,40 €	JA	50 / 400
506272	1/2" F x 15/2,5	■	2,40 €	JA	50 / 400
506273	1/2" F x 16/1,5	■	2,40 €	JA	50 / 400
506275	1/2" F x 16/2,2	■	2,40 €	JA	50 / 400

**RP 731 N**


- Raccordo per tubo polietilene EUROK x 1/2" M.
- Fitting for polyethylene pipe EUROK x 1/2" M.
- Raccord pour tube polyéthylène EUROK x 1/2" M.
- EUROK x 1/2" AG Verschraubung für Polyäthylen-Rohr.
- Racor de compresión para tubo de polietileno EUROK x 1/2" M.

Code	Size	Color	Price	Class	Packaging
570020N	1/2" M x 12/1	■	4,91 €	LA	50 / 200
570021N	1/2" M x 12/2	■	4,91 €	LA	50 / 200
570022N	1/2" M x 14/2	■	4,91 €	LA	50 / 200
570023N	1/2" M x 15/1,7	■	4,91 €	LA	50 / 200
570024N	1/2" M x 15/2,5	■	4,91 €	LA	50 / 200
570025N	1/2" M x 16/1,5	■	4,91 €	LA	50 / 200
570026N	1/2" M x 16/2	■	4,91 €	LA	50 / 200
570027N	1/2" M x 16/2,2	■	4,91 €	LA	50 / 200
570028N	1/2" M x 17/2	■	4,89 €	LA	50 / 200
570029N	1/2" M x 18/1,8	■	4,89 €	LA	50 / 200
570030N	1/2" M x 18/2	■	4,89 €	LA	50 / 200
570031N	1/2" M x 20/2	■	5,11 €	LA	50 / 200
570032N	1/2" M x 20/2,8	■	5,11 €	LA	50 / 200
570033N	1/2" M x 21/2,5	■	5,30 €	LA	50 / 200

### RA 761



- Raccordo a stringere diritto maschio per tubo multistrato.
- Compression straight male fitting for multilayer pipe.
- Raccord à serrage droit mâle pour tube multicouche.
- Durchgang AG Pressanschluss für Verbundrohr.
- Racor de compresión recto macho para tubo multicapa.

Code	Size	Color	Price	Class	Packaging
500043	3/4" M x 20/2	Yellow	5,83 €	LA	25 / 100
501361	3/4" M x 25/2,5	Yellow	8,86 €	LA	25 / 200
500122	3/4" M x 25/3	Yellow	8,86 €	LA	25 / 100
501084	3/4" M x 26/3	Yellow	8,86 €	LA	25 / 100
501497	3/4" M x 32/3	Yellow	14,00 €	LA	15 / 120
506489	1" M x 25/2,5	Yellow	9,19 €	LA	15 / 120
506490	1" M x 25/3	Yellow	9,19 €	LA	15 / 120
506057	1" M x 26/3	Yellow	9,19 €	LA	15 / 120
500203	1" M x 32/3	Yellow	12,08 €	LA	10 / 80
500043N	3/4" M x 20/2	Grey	5,97 €	LA	25 / 200
501361N	3/4" M x 25/2,5	Grey	9,11 €	LA	25 / 200
500122N	3/4" M x 25/3	Grey	9,11 €	LA	25 / 100
501084N	3/4" M x 26/3	Grey	9,11 €	LA	25 / 100
501497N	3/4" M x 32/3	Grey	14,42 €	LA	15 / 120
506489N	1" M x 25/2,5	Grey	9,45 €	LA	15 / 120
506490N	1" M x 25/3	Grey	9,45 €	LA	15 / 120
506057N	1" M x 26/3	Grey	9,45 €	LA	15 / 120
500203N	1" M x 32/3	Grey	12,43 €	LA	10 / 80

### RA 861



- Raccordo a stringere ad angolo maschio per tubo multistrato.
- Compression angle male fitting for multilayer pipe.
- Raccord à serrage à angle mâle pour tube multicouche.
- Winkel AG Pressanschluss für Verbundrohr.
- Racor codo de compresión macho para tubo multicapa.

Code	Size	Color	Price	Class	Packaging
506488	3/4" M x 25/2,5	Yellow	11,53 €	LA	20 / 160
506472	3/4" M x 25/3	Yellow	11,53 €	LA	20 / 160
506473	3/4" M x 26/3	Yellow	11,53 €	LA	10 / 80
506474	3/4" M x 32/3	Yellow	13,78 €	LA	20 / 160
506486	1" M x 25/2,5	Yellow	12,93 €	LA	10 / 80
506496	1" M x 25/3	Yellow	12,93 €	LA	10 / 80
506463	1" M x 26/3	Yellow	12,93 €	LA	10 / 80
506464	1" M x 32/3	Yellow	14,92 €	LA	10 / 40
506488N	3/4" M x 25/2,5	Grey	11,77 €	LA	20 / 160
506472N	3/4" M x 25/3	Grey	11,77 €	LA	20 / 160
506473N	3/4" M x 26/3	Grey	11,77 €	LA	10 / 80
506474N	3/4" M x 32/3	Grey	14,19 €	LA	20 / 160
506486N	1" M x 25/2,5	Grey	13,38 €	LA	10 / 80
506496N	1" M x 25/3	Grey	13,38 €	LA	10 / 80
506463N	1" M x 26/3	Grey	13,38 €	LA	10 / 80
506464N	1" M x 32/3	Grey	15,43 €	LA	10 / 40

**RA 762**


- **Raccordo a stringere diritto femmina per tubo multistrato.**
- *Compression straight female fitting for multilayer pipe.*
- **Raccord à serrage droit femelle pour tube multicouche.**
- *Durchgang IG Pressanschluss für Verbundrohr.*
- **Racor de compresión recto hembra para tubo multicapa.**

Code	Size	Color	Price	Class	Packaging
506484	3/4" F x 25/2,5	■	8,65 €	LA	20 / 160
506454	3/4" F x 25/3	■	8,65 €	LA	20 / 160
506455	3/4" F x 26/3	■	8,65 €	LA	20 / 80
506456	3/4" F x 32/3	■	11,29 €	LA	10 / 80
506483	1" F x 25/2,5	■	9,65 €	LA	15 / 120
506491	1" F x 25/3	■	9,65 €	LA	15 / 120
506450	1" F x 26/3	■	9,65 €	LA	15 / 120
506451	1" F x 32/3	■	12,18 €	LA	15 / 60
506484N	3/4" F x 25/2,5	■	9,29 €	LA	20 / 160
506454N	3/4" F x 25/3	■	9,29 €	LA	20 / 160
506455N	3/4" F x 26/3	■	9,29 €	LA	20 / 160
506456N	3/4" F x 32/3	■	11,61 €	LA	10 / 80
506483N	1" F x 25/2,5	■	9,95 €	LA	15 / 120
506491N	1" F x 25/3	■	9,95 €	LA	15 / 120
506450N	1" F x 26/3	■	9,95 €	LA	15 / 120
506451N	1" F x 32/3	■	12,55 €	LA	15 / 60

**RA 862**


- **Raccordo a stringere ad angolo femmina per tubo multistrato.**
- *Compression angle female fitting for multilayer pipe.*
- **Raccord à serrage à angle femelle pour tube multicouche.**
- *Winkel IG Pressanschluss für Verbundrohr.*
- **Racor codo de compresión hembra para tubo multicapa.**

Code	Size	Color	Price	Class	Packaging
506487	3/4" F x 25/2,5	■	12,57 €	LA	20 / 160
506469	3/4" F x 25/3	■	12,57 €	LA	20 / 160
506470	3/4" F x 26/3	■	12,57 €	LA	10 / 80
506471	3/4" F x 32/3	■	14,57 €	LA	10 / 80
506485	1" F x 25/2,5	■	14,53 €	LA	10 / 80
506499	1" F x 25/3	■	14,53 €	LA	10 / 80
506461	1" F x 26/3	■	14,53 €	LA	10 / 80
506462	1" F x 32/3	■	15,76 €	LA	10 / 80
506487N	3/4" F x 25/2,5	■	12,95 €	LA	15 / 120
506469N	3/4" F x 25/3	■	12,95 €	LA	20 / 160
506470N	3/4" F x 26/3	■	12,95 €	LA	10 / 80
506471N	3/4" F x 32/3	■	15,02 €	LA	20 / 160
506485N	1" F x 25/2,5	■	14,97 €	LA	10 / 80
506499N	1" F x 25/3	■	14,97 €	LA	10 / 80
506461N	1" F x 26/3	■	14,97 €	LA	10 / 80
506462N	1" F x 32/3	■	16,26 €	LA	10 / 80

**RP 731**


- Raccordo a stringere diritto maschio per tubo in polietilene.
- Compression straight male fitting for polyethylene pipe.
- Raccord à serrage droit mâle pour tube en polyéthylène.
- Durchgang AG Pressanschluss für Polyäthylenrohr.
- Racor de compresión recto macho para tubo de polietileno.

Code	Size	Color	Price	Class	Packaging
506209	3/4" M x 20/2	■	5,59 €	LA	25 / 200
501051	3/4" M x 20/2,8	■	5,59 €	LA	25 / 200
501054	3/4" M x 25/2,3	■	8,89 €	LA	25 / 100
550042	3/4" M x 25/2,5	■	8,89 €	LA	25 / 200
501052	3/4" M x 25/3,5	■	8,89 €	LA	20 / 160
501498	3/4" M x 32/4,4	■	13,50 €	LA	15 / 120
506492	1" M x 25/2,3	■	8,84 €	LA	20 / 160
506493	1" M x 25/2,5	■	8,84 €	LA	20 / 160
991310	1" M x 25/3,5	■	9,24 €	LA	20 / 160
506209N	3/4" M x 20/2,3	■	5,76 €	LA	25 / 200
501051N	3/4" M x 20/2,8	■	5,76 €	LA	25 / 200
501054N	3/4" M x 25/2,3	■	9,16 €	LA	25 / 100
550042N	3/4" M x 25/2,5	■	9,16 €	LA	25 / 200
501052N	3/4" M x 25/3,5	■	9,16 €	LA	25 / 100
501498N	3/4" M x 32/4,4	■	13,91 €	LA	15 / 120
506492N	1" M x 25/2,3	■	9,10 €	LA	20 / 160
506493N	1" M x 25/2,5	■	9,10 €	LA	20 / 160
991310N	1" M x 25/3,5	■	9,51 €	LA	20 / 160

**RP 732**


- **Raccordo a stringere diritto femmina per tubo in polietilene.**
- *Compression straight female fitting for polyethylene pipe.*
- **Raccord à serrage droit femelle pour tube en polyéthylène.**
- *Durchgang IG Pressanschluss für Polyäthylenrohr.*
- **Racor de compresión recto hembra para tubo de polietileno.**

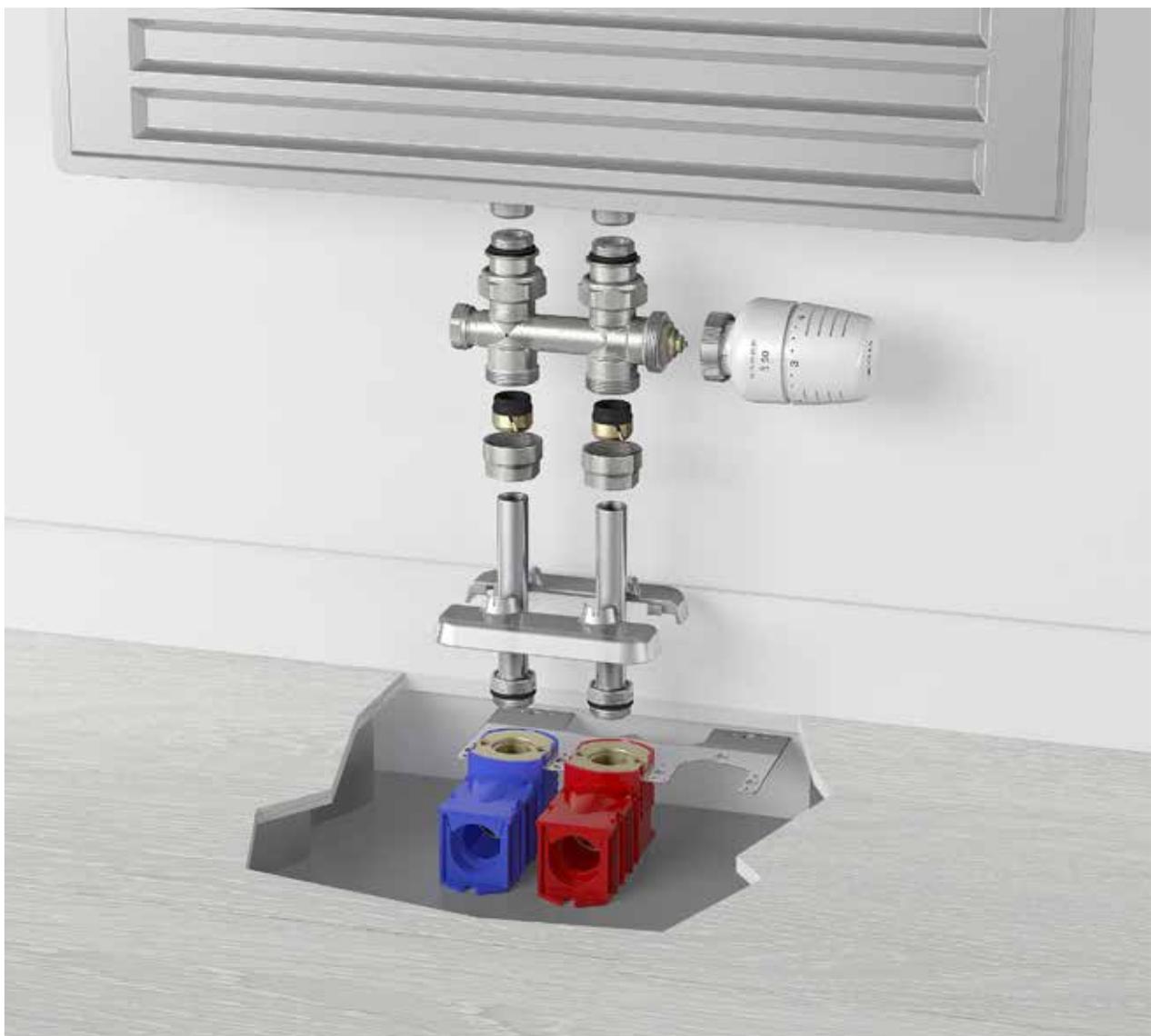
Code	Size	Color	Price	Class	Packaging
506457	3/4" Fx25/2,3	■	8,65 €	LA	15 / 60
506458	3/4" Fx25/2,5	■	8,65 €	LA	15 / 60
506459	3/4" Fx25/3,5	■	8,65 €	LA	15 / 60
506460	3/4" Fx32/4,4	■	10,94 €	LA	15 / 60
506494	1" F x 25/2,3	■	9,53 €	LA	15 / 60
506495	1" F x 25/2,5	■	9,53 €	LA	15 / 60
506452	1" F x 25/3,5	■	9,65 €	LA	15 / 60
506453	1" F x 32/4,4	■	11,95 €	LA	15 / 60
506457N	3/4" F x 25/2,3	■	8,92 €	LA	15 / 60
506458N	3/4" F x 25/2,5	■	8,92 €	LA	15 / 60
506459N	3/4" F x 25/3,5	■	8,92 €	LA	15 / 60
506460N	3/4" F x 32/4,4	■	11,25 €	LA	15 / 60
506494N	1" F x 25/2,3	■	9,82 €	LA	15 / 60
506495N	1" F x 25/2,5	■	9,82 €	LA	15 / 60
506452N	1" F x 25/3,5	■	9,95 €	LA	15 / 60
506453N	1" F x 32/4,4	■	12,31 €	LA	15 / 60

# UNDER-FLOOR FITTINGS

The widespread use of cross-linked polyethylene pipes has made it necessary to introduce some measures in systems to minimise problems deriving from the use of this type of pipe. In fact one of the main defects is the high elastic return which determines a certain difficulty in attaching DHW taps and fittings and radiator valves to the walls. The use of hydraulic junction boxes (similar to household electric systems) greatly simplifies use of the polyethylene pipe, also giving it an incomparable aesthetic result. The junction boxes, with their template, have fixed centre distances for the connections of sanitary appliances and, thanks to the numerous grooves for anchoring to the template, allow you to choose the fixing depth of the fittings in the wall, depending on the thickness of the intended covering. When using for radiator junctions, the use of RR 702 chrome-plated extensions and of AGE06/07 plates definitely give the junction a pleasant aspect (no longer cracked walls, inclined pipes, hanging radiators). The junction boxes make it possible to crimp the conduit (always recommended for thermal expansion problems), forming a unique element making it possible to pull off the pipe when necessary and to replace it with a new one without needing to break the wall. All the hot dipped galvanised iron templates are fractionable in case of single use. The SS1711 boxes can be coupled one to another by grooved guides to obtain a minimum centre distance of 38 mm for use in heating with single pipe valves and 3- and 4-way distributors. The supplied template allows you to obtain centre distances of 38, 50, 100, 153 mm to meet all the junction requirements both in heating and in DHW.

Boxes with 105 ° fitting SS1730 - SS1735 are equipped with sealed rubber cap insulating the box from the circuit. Should the fitting drip, the leak can be immediately identified in the box and does not extend through the conduit.

The junctions have EUROKONUS thread and make it possible to use all the fittings for polyethylene, multilayer and even copper pipes. Using the last two types of pipe makes it impossible to pull off the pipe due to its greater rigidity, but all the other features of the system carried out professionally and aesthetically remain unchanged.



**SS 1740**


- Scatola di distribuzione sottotraccia a 2 uscite maschio EUROK per collegamento in serie.
- Under-floor distribution box with double EUROK male output for serial connections.
- Boîte de distribution encastrée à deux sorties EUROK mâle pour raccordement en série.
- Unterputz-Dose mit 2 AG-Anschlüsse EUROK für Verbindungsreihe.
- Caja de distribución empotrable de 2 salidas macho EUROK para la conexión en serie.

Code	Size	Color	Price	Class	Packaging
500154	1/2" F x EUROK	■	12,38 €	MA	6 / 72

**SS 1731**


- Scatola di distribuzione sottotraccia con raccordo maschio EUROK a 105°.
- Under-floor distribution box with 105° EUROK male fitting.
- Boîte de distribution enchâssée avec raccord EUROK mâle à 105°.
- Verteilerkasten Unterspur mit Y-AG-Anschluss EUROK.
- Caja de distribución empotrable con racor macho EUROK a 105°.

Code	Size	Color	Price	Class	Packaging
500155	1/2" F x EUROK	■	8,15 €	MA	6 / 72

**SS 1730**


- Scatole di distribuzione sottotraccia con raccordo maschio EUROK a 105° complete di dima.
- Under-floor distribution boxes with 105° EUROK male fitting equipped with template.
- Boîtes de distribution encastrées avec raccord EUROK mâle à 105° fournies avec platine de fixation.
- Unterputz-Dosen mit 105° Verbinder mit AG-Anschluss EUROK und Halterung.
- Cajas de distribución empotrable con racor macho EUROK a 105° con plantilla.

Code	Size	Color	Price	Class	Packaging
500156	1/2" F x EUROK	■	9,52 €	MA	6 / 72

**SS 1735**


- Scatole di distribuzione a tenuta stagna con raccordo maschio EUROK.
- Watertight under-floor distribution box with EUROK male fitting.
- Boîtes de distribution avec raccord EUROK mâle.
- Dichte Unterputz-Dosen mit AG-Anschluss EUROK.
- Cajas de distribución estancas con racor macho EUROK.

Code	Size	Color	Price	Class	Packaging
501365	1/2" F x EUROK	■	10,15 €	MA	6 / 72

**AS 1926**


- Dima frazionabile per scatole di distribuzione sottotraccia SS 1730 / 1735.
- Divisible template for under-floor distribution boxes SS 1730 / 1735.
- Platine de fixation pouvant être fractionnée pour les boîtes de distribution encastrée SS 1730 / 1735.
- Trennbare Halterung für Unterputz-Dose SS 1730 / 1735.
- Plantilla fraccionable para cajas de distribución empotrables SS 1730 / 1735.

Code	Size	Price	Class	Packaging
550038	SS 1730 - SS 1735	2,75 €	JC	50

■ SS 1711 B



- Scatola di distribuzione sottotraccia con raccordo maschio EUROK a 90°.
- Under-floor distribution box with 90° EUROK male fitting.
- Boîte de distribution encastrée avec raccord EUROK mâle à 90°.
- Unterputz-Dose mit 90° Winkel mit AG-Anschluss EUROK.
- Caja de distribución empotrable con racor macho EUROK a 90°.

Code	Size	Color	Price	Class	Packaging
500131	1/2" F x EUROK	■	5,95 €	MA	8 / 96

■ SS 1711 R



- Scatola di distribuzione sottotraccia con raccordo maschio EUROK a 90°.
- Under-floor distribution box with 90° EUROK male fitting.
- Boîte de distribution encastrée avec raccord EUROK mâle à 90°.
- Unterputz-Dose mit 90° Winkel mit AG-Anschluss EUROK.
- Caja de distribución empotrable con racor macho EUROK a 90°.

Code	Size	Color	Price	Class	Packaging
500131R	1/2" F x EUROK	■	5,95 €	MA	8 / 96

■ SS 1710 B



- Scatole di distribuzione sottotraccia con raccordo maschio EUROK a 90° complete di dima.
- Under-floor distribution boxes with 90° EUROK male fitting equipped with template.
- Boîtes de distribution encastrées avec raccord EUROK mâle à 90° fournies avec platine de fixation.
- Unterputz-Dosen mit 90° Winkel mit AG-Anschluss EUROK und Halterung.
- Cajas de distribución empotrable con racor macho EUROK a 90° con plantilla.

Code	Size	Color	Price	Class	Packaging
500132	1/2" F x EUROK	■	6,82 €	MA	8 / 96

■ SS 1710 R



- Scatole di distribuzione sottotraccia con raccordo maschio EUROK a 90° complete di dima.
- Under-floor distribution boxes with 90° EUROK male fitting equipped with template.
- Boîtes de distribution encastrées avec raccord EUROK mâle à 90° fournies avec platine de fixation.
- Unterputz-Dosen mit 90° Winkel mit AG-Anschluss EUROK und Halterung.
- Cajas de distribución empotrable con racor macho EUROK a 90° con plantilla.

Code	Size	Color	Price	Class	Packaging
500132R	1/2" F x EUROK	■	6,82 €	MA	8 / 96

■ SS 1710 BR



- Scatole di distribuzione sottotraccia con raccordo maschio EUROK a 90° complete di dima.
- Under-floor distribution boxes with 90° EUROK male fitting equipped with template.
- Boîtes de distribution encastrées avec raccord EUROK mâle à 90° fournies avec platine de fixation.
- Unterputz-Dosen mit 90° Winkel mit AG-Anschluss EUROK und Halterung.
- Cajas de distribución empotrable con racor macho EUROK a 90° con plantilla.

Code	Size	Color	Price	Class	Packaging
520060	1/2" F x EUROK	■ - ■	6,82 €	MA	8 / 96

**AS 1925**


- **Dima frazionabile per scatole di distribuzione sottotraccia MP 5610 - SS 1711.**
- *Dividable template for under-floor distribution boxes MP 5610 - SS 1711.*
- **Platine de fixation pouvant être fractionnée pour les boîtes de distribution encastrée MP 5610 - SS 1711.**
- *Trennbare Halterung für Unterputz-Dose MP 5610 - SS 1711.*
- **Plantilla fraccionable para caja de distribución empotrables MP 5610 - SS 1711.**

Code	Size	Price	Class	Packaging
501011	MP 5610 - SS 1711	1,77 €	JC	60

**RR 702**


- **Tubo di raccordo in rame cromato a tenuta morbida per scatole di distribuzione sottotraccia.**
- *Chrome-plated copper connection pipe with soft seal for concealed distribution boxes.*
- **Tube de raccord en cuivre chromé à étanchéité souple pour boîtes de distribution encastrées.**
- *Verbindungsrohr aus verchromtem Kupfer mit O-Ring für Anschlussbox für Unterputzanwendung.*
- **Tubo de conexión con cobre plateado con asiento blando para la caja de distribución bajo el yeso.**

Code	Size	Color	Price	Class	Packaging
520003	Ø15 x 1/2" M - 108 mm	■	5,98 €	JC	35 / 280
520001	Ø15 x 1/2" M - 175 mm	■	6,70 €	JC	30 / 240

# TOOLS AND GENERAL ACCESSORIES

## AR 32



- Cesoia per tubi di plastica TC 32 Professional.
- Shear for plastic pipe TC 32 Professional.
- Coupe-tube pour tuyaux en plastique TC 32 Professional.
- Kunststoffrohr-Scher TC 32 Professional.
- Tijeras para tubos de plástico TC 32 Professional.



Code	Price	Class	Packaging
52040	90,48 €	IR	1

## AR 32 L



- Lama di ricambio TC 32.
- Spare blade for TC 32.
- Lame de rechange pour TC 32.
- Kunststoffrohr-Scher TC 32 Professional.
- Tijeras para tubos de plástico TC 32 Professional.



Code	Price	Class	Packaging
52041	34,32 €	IR	1

## AR 42



- Tagliatubi TC 42 PRO MSR.
- Pipe cutter TC 42 PRO MSR.
- Coupe-tube TC 42 PRO MSR.
- Rohrschneider TC 42 PRO MSR.
- Cortatubos TC 42 PRO MSR.



Code	Price	Class	Packaging
70109	148,12 €	IR	1

## AR 42 L



- Lama di ricambio TC 42 (5 pezzi).
- Spare blade for TC 42 (5 pcs).
- Lame de rechange pour TC 42 (5 pcs).
- Ersatzmesser für TC 42 (5 stk).
- Cuchilla de TC 42 (5 pz).



Code	Price	Class	Packaging
070188D	85,08 €	IR	1

## AR 67



- Tagliatubi TC 67 PL.
- Pipe cutter TC 67 PL.
- Coupe-tube TC 67 PL.
- Rohrschneider TC 67 PL.
- Cortatubos TC 67 PL.



Code	Price	Class	Packaging
70031	202,12 €	IR	1

## AR 64



- Tagliatubi PLASTICUT MSR Set.
- Pipe cutter PLASTICUT MSR Set.
- Coupe-tube PLASTICUT MSR Set.
- Rohrschneider PLASTICUT MSR Set.
- Cortatubos PLASTICUT MSR Set.



Code	Size	Price	Class	Packaging
88700	16 - 20 - 25/26 mm	128,08 €	IR	1

## AR 43



- Cesoia per tubi di plastica TC 42 Professional.
- Shear for plastic pipe TC 42 Professional.
- Coupe-tube pour tuyaux en plastique TC 42 Professional.
- Kunststoffrohr-Scher TC 42 Professional.
- Tijeras para tubos de plástico TC 42 Professional.



Code	Price	Class	Packaging
52000	125,60 €	IR	1

## AR 43 L



- Lama di ricambio TC 42 Professional.
- Spare blade for TC 42 Professional.
- Lame de rechange pour TC 42 Professional.
- Ersatzmesser für TC 42 Professional.
- Cuchilla de TC 42 Professional.



Code	Price	Class	Packaging
52042	68,96 €	IR	1

## AR 63



- Cesoia per tubi di plastica TC 63 Professional.
- Shear for plastic pipe TC 63 Professional.
- Coupe-tube pour tuyaux en plastique TC 63 Professional.
- Kunststoffrohr-Scher TC 63 Professional.
- Tijeras para tubos de plástico TC 63 Professional.



Code	Price	Class	Packaging
52030	188,60 €	IR	1

## AR 63 L



- Lama di ricambio TC 63 Professional.
- Spare blade for TC 63 Professional.
- Lame de rechange pour TC 63 Professional.
- Ersatzmesser für TC 63 Professional.
- Cuchilla de TC 63 Professional.



Code	Price	Class	Packaging
52031	132,80 €	IR	1

**AR 01**


- **Calibratore per tubo multistrato.**
- *Caliper for multilayer pipe.*
- **Calibrateur pour tubes multicouches.**
- *Kaliber für Verbundrohr.*
- **Calibrador para tubo multicapa.**

Code	Size	Price	Class	Packaging
500406	Pipe from Ø16/2 to Ø32/3 mm	130,00 €	IR	1
500407	40/3,5	130,00 €	IR	1
500408	50/4	151,83 €	IR	1
500409	63/4,5	199,16 €	IR	1

**AR 02**


- **Kit calibratori per tubo multistrato completo di valigetta in materiale plastico.**
- *Kit of calipers for multilayer pipe complete with plastic carrying case.*
- **Kit calibrateurs pour tube multicouches avec coffret en plastique.**
- *Kalibrierungssatz für mehrschichtige Rohre mit Plastikkoffer.*
- **Kit calibradores para tubo multicapa con maletín de plástico.**

Code	Size	Price	Class	Packaging
501797	Ø14/2 - Ø16/2 - Ø18/2 - Ø20/2 - Ø26/3 - Ø32/3 - Ø40/3,5 - Ø50/4 - Ø63/4,5	649,40 €	IR	1

**AR 09**


- **Impugnatura per calibratore per tubo multistrato.**
- *Grip for multilayer pipe caliper.*
- **Poignée pour calibrateur pour tubes multicouches.**
- *Griff für das Kalibrierungsgerät für mehrschichtige Rohre.*
- **Empuñadura para calibrador para tubo multicapa.**

Code	Price	Class	Packaging
IM0001	49,24 €	IR	1

**AR 04**


- **Calibratori per tubo multistrato.**
- *Calipers for multilayer pipe.*
- **Calibrateurs pour tubes multicouches.**
- *Kalibere für Verbundrohr.*
- **Calibradores para tubo multicapa.**

Code	Size	Price	Class	Packaging
CA0001	14/2	46,55 €	IR	1
CA0002	16/2	47,45 €	IR	1
CA0013	16/2,25	47,45 €	IR	1
CA0003	18/2	49,24 €	IR	1
CA0004	20/2	51,93 €	IR	1
CA0015	20/2,25	51,93 €	IR	1
CA0016	20/2,5	51,93 €	IR	1
CA0017	25/2,5	62,68 €	IR	1
CA0005	26/3	62,68 €	IR	1
CA0006	32/3	78,79 €	IR	1
CA0007	40/3,5	114,61 €	IR	1
CA0008	50/4	181,76 €	IR	1
CA0009	63/4,5	313,37 €	IR	1

**HD17**


- **Svolgirotolo per tubo in polietilene e multistrato.**
- *Roll distributor for polyethylene and multilayer pipe.*
- **Derouleur pour tubes en polyéthylène et multicouche.**
- *Abröller für Polyethylen- und Verbundrohr.*
- **Desbobinadora para tubo de polietileno y multicapa.**

Code	Size	Price	Class	Packaging
HD17	Pipe from Ø16 to Ø26 mm	425,39 €	IR	1

**AC 670**


- **Chiave per raccordi a stringere.**
- *Wrench for compression fittings.*
- **Clé pour raccords à serrage.**
- *Schlüssel für Pressanschlüsse.*
- **Llave para accesorios de compresión.**

Code	Size	Price	Class	Packaging
501181	24-27 mm	29,12 €	JC	15

**AC 671**


- **Chiave per nipples girevoli.**
- *Wrench for rotating nipples.*
- **Clé pour nipples pivotants.**
- *Schlüssel für drehbare Anschlussstücke.*
- **Llave para entrerroscas giratorias.**

Code	Size	Price	Class	Packaging
500030	27-30 mm	5,02 €	JC	20 / 160
500029	37-48 mm	7,15 €	JC	20

AR 75



- Pinza automatica regolabile ROGRIP M.
- Quickly adjustable water pump plier ROGRIP M.
- Pince multiprise à réglage rapide ROGRIP M.
- Schnellverstellbare Wasserpumpenzange ROGRIP M.
- Tenazas de canal con ajuste rápido ROGRIP M.



Code	Size	Price	Class	Packaging
1000002699	10" - Ø 2"	45,00 €	IR	1

AR 76



- Chiave fissa e chiave a cricco ad anello snodata ROCLICK.
- Combined open-ended / hinged ratchet wrench ROCLICK.
- Clé combinée à fourche et cliquet articulé ROCLICK.
- Kombi Maul-/Gelenk-Ratschenschlüssel ROCLICK.
- Combinación llave fija / carraca articulada ROCLICK.



Code	Size	Price	Class	Packaging
70490	8-10-11-13-14-17-19	335,20 €	IR	1

AR 1920



- Anima flessibile interna per la curvatura rapida dei tubi.
- Flexible internal core for rapid pipe bends.
- Noyau flexible interne pour le cintrage rapide des tubes.
- Flexibler Kern für Inneranwendung zum Schnellbiegen des Rohres.
- Alma flexible interior para la rápida curva de los tubos.

Code	Size	Price	Class	Packaging
140070	14/2	12,45 €	IR	1
140067	14/2	19,92 €	IR	1
140069	16/2	7,32 €	IR	1
140060	16/2	19,92 €	IR	1
140068	18/2	9,72 €	IR	1
140066	18/2	21,29 €	IR	1
140081	20/2	9,72 €	IR	1
140082	20/2	21,29 €	IR	1
140043	26/3	12,72 €	IR	1
140042	32/3	12,72 €	IR	1

AR 77



- Giratubi 90°.
- Pipe Wrench 90°.
- Clé Serre-tube 90°.
- Rhorzange 90°.
- Llaves suecas 90°.



Code	Size	Price	Class	Packaging
070110X	1"	93,36 €	IR	1
070111X	1"1/2	133,12 €	IR	1
070112X	2"	211,40 €	IR	1

AR 50



- Curvatubi TUBE BENDER MSR 32 SET.
- TUBE BENDER MSR 32 SET.
- Cintreuse TUBE BENDER MSR 32 SET.
- Biegegerät TUBE BENDER MSR 32 SET.
- Curvadora TUBE BENDER MSR 32 SET.



Code	Size	Price	Class	Packaging
23095	14-16-18-20-26-32 mm	963,60 €	IR	1
23065	14-16-18-20-25-32 mm	928,60 €	IR	1

AR 1921



- Anima flessibile esterna per la curvatura rapida dei tubi.
- Flexible external core for rapid pipe bends.
- Noyau flexible externe pour le cintrage rapide des tubes.
- Flexibler Kern für Außenanwendung zum Schnellbiegen des Rohres.
- Alma flexible exterior para la rápida curva de los tubos.

Code	Size	Price	Class	Packaging
140045	16/2	7,80 €	IR	1
140044	18/2	13,06 €	IR	1
140039	20/2	13,06 €	IR	1

**AR 37**


- Pressatrice ROMAX 4000 a batteria completa di valigetta, batteria e caricabatterie.
- ROMAX 4000 battery-pressmachine with transport case, battery and charger.
- Machine à sertir ROMAX 4000 à batteries complet de valise, batterie et chargeur.
- Batteriebetriebene Pressmaschine ROMAX 4000 komplett mit Koffer, Akku und Ladegerät.
- Prensa con batería ROMAX 4000 dotada de caso, batería y cargador.



Code	Size	Price	Class	Packaging
1000001840	Ø 12-108 mm - 32 kN / 40 mm	2.832,08 €	IR	1

**AR 37 B**


- Batteria per ROMAX 4000.
- Battery for ROMAX 4000.
- Batterie pour ROMAX 4000.
- Akku für ROMAX 4000.
- Batería para ROMAX 4000.



Code	Price	Class	Packaging
1000001653	375,88 €	IR	1

**AR 37 C**


- Caricabatteria per ROMAX 4000.
- Charger for ROMAX 4000.
- Chargeur pour ROMAX 4000.
- Ladegerät für ROMAX 4000.
- Cargador para ROMAX 4000.



Code	Price	Class	Packaging
1000001654	275,36 €	IR	1

**AR 120**


- Ganascia madre per catene ZSB1.
- Intermediate jaw for pressing collars ZSB1.
- Mâchoire intermédiaire pour chaînes de sertissage ZSB1.
- Zwischenbacke für Pressschlingen ZSB1.
- Mordaza intermedia para collares de presión.



Code	Price	Class	Packaging
1000001126	784,12 €	IR	1

**AR 10 R**


- Pinze per raccordi a pressare.
- Jaws for press fittings.
- Pincés pour raccords à presser.
- Zangen für Pressanschlüsse.
- Pinzas para accesorios a presñar.



Code	Size	Price	Class	Packaging
501741RBE	Ø16 BE	425,00 €	IR	1
501743RBE	Ø20 BE	425,00 €	IR	1
501744RBE	Ø26 BE	425,00 €	IR	1
501745RBE	Ø32 BE	425,00 €	IR	1
501741RR	Ø16 R	316,66 €	IR	1
501742RR	Ø18 R	316,66 €	IR	1
501743RR	Ø20 R	316,66 €	IR	1
501730RR	Ø25 R	414,64 €	IR	1
501744RR	Ø26 R	316,66 €	IR	1
501745RR	Ø32 R	316,66 €	IR	1
501741RTH	Ø16 TH	257,84 €	IR	1
501742RTH	Ø18 TH	316,66 €	IR	1
501743RTH	Ø20 TH	257,84 €	IR	1
501730RTH	Ø25 TH	316,66 €	IR	1
501744RTH	Ø26 TH	257,84 €	IR	1
501745RTH	Ø32 TH	257,84 €	IR	1
501746RTH	Ø40 TH	642,48 €	IR	1
501741RU	Ø16 U	316,66 €	IR	1
501742RU	Ø18 U	316,66 €	IR	1
501743RU	Ø20 U	316,66 €	IR	1
501730RU	Ø25 U	316,66 €	IR	1
501745RU	Ø32 U	316,66 €	IR	1
501746RU	Ø40 U	642,48 €	IR	1

**AR 110**


- Catene.
- Pressing collars.
- Chaînes de sertissage Standard.
- Pressschlingen Standard.
- Collares de presión.



Code	Size	Price	Class	Packaging
1000001810	Ø50 TH	1.243,84 €	IR	1
1000001811	Ø63 TH	1.243,84 €	IR	1

AR 55



- Sistema di congelamento per tubi in rame e acciaio ROFROST® TURBO.
- ROFROST® TURBO pipe freezing system for copper, steel, stainless steel pipes.
- Appareil de congélation des tubes pour les tubes en cuivre et acier ROFROST® TURBO.
- Rohrefriersysteme für Kupfer- und Stahlrohre ROFROST® TURBO.
- Sistema de congelador para tubos de cobre y acero ROFROST® TURBO.

Code	Size	Price	Class	Packaging
1500003000	1"1/4	2.991,04 €	IR	1
1500003001	3/4" - 2"	4.239,48 €	IR	1

AR 71



- Pompa provaimpanti compatta TP 25.
- TP 25 small and robust precision testing pump for pressure testing.
- Petite pompe de précision TP 25 robuste pour épreuve de pression.
- Kleine und robuste Präzisionsprüfpumpe TP 25 für die Druckprüfung.
- Bomba de comprobación de presión precisa, pequeña y sólida TP 25.

Code	Size	Price	Class	Packaging
60250	Tank 7 l	540,24 €	IR	1

AR 73



- Pompa provaimpanti elettrica autoadescente RP PRO III.
- Self-priming electric testing pump RP PRO III.
- Pompe électrique de remplissage et contrôle à auto-aspirante RP PRO III.
- Selbstansaugende elektrische Befüll- und Prüfpumpe RP PRO III.
- Bomba de comprobación con autocebado y llenado eléctrico RP PRO III.

Code	Max inlet pressure	Price	Class	Packaging
61185	40 bar	1.688,92 €	IR	1

AR 70



- Telecamera ROSCOPE® i2000 Modul 25/16 per ispezioni di tubi da Ø 50 a 100 mm.
- ROSCOPE® i2000 Module 25/16 high-performance camera for the inspection of pipes from Ø 50 up to 100 mm.
- Caméra haute performance Module ROSCOPE® i2000 25/16 pour l'inspection de tubes de Ø 50 à 100 mm.
- Hochleistungskamera ROSCOPE® i2000 Modul 25/16 zur Inspektion von Rohren Ø 50 bis 100 mm.
- Cámara de alto rendimiento Conjunto ROSCOPE® i2000 Modul 25/16 para la inspección de tuberías de Ø 50 hasta 100 mm.

Code	Size	Price	Class	Packaging
1000000842	Pipe from Ø 50 to Ø 100 mm	6.680,00 €	IR	1

AR 72



- Pompa provaimpanti di precisione RP 50-5 in struttura monoblocco.
- Robust precision testing pump RP 50-5 for pressure testing of water lines and containers with very high testing standards.
- Pompe d'épreuve de précision robuste RP 50-5 pour l'épreuve des conduites d'eau et des réservoirs avec exigences élevées de contrôle.
- Robuste Präzisionsprüfpumpe RP 50-5 für die Druckprüfung von Wasserleitungen und Behältern mit hohen Prüfanforderungen.
- Sólida bomba RP 50-5 para realizar comprobaciones de precisión sobre la presión de tuberías de agua y contenedores con niveles de exigencia muy altos.

Code	Size	Price	Class	Packaging
60200	Tank 12 l	756,00 €	IR	1

AR 74



- Unità elettrica ROSOLAR PUMP per risciacquare, riempire e svuotare impianti a circuito chiuso.
- ROSOLAR solar filling pump.
- Pompe de remplissage solaire ROSOLAR PUMP.
- Solar Befüllpumpe ROSOLAR PUMP.
- Bomba de llenar para rellenar, limpiar y ventilar sistemas solares y geotérmicos ROSOLAR PUMP.

Code	Size	Price	Class	Packaging
1500000135	3/4" - Tank 30 l	1.450,40 €	IR	1

**AR 60**

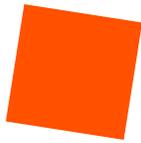

- **Compressore ROPULS per la pulizia e la manutenzione di impianti di riscaldamento e acqua potabile secondo EN 806 / DIN 1988-2.**
- *ROPULS flushing compressor for scouring and cleaning of heating systems and flushing of drinking water pipes according to EN 806 / DIN 1988-2.*
- **Compresseur nettoyeur ROPULS pour le débouage et le nettoyage de systèmes de chauffage et pour le rinçage de conduites d'eau potable selon la eN 806/ DiN 1988-2.**
- *Spülkompressor ROPULS zum Entschlammern und Reinigen von Heizungssystemen und zum Spülen von Trinkwasserleitungen nach EN 806 / DIN 1988-2.*
- **Compresor de limpieza por barrido ROPULS para el abastecimiento y la limpieza de sistemas de calefacción y el barrido de instalaciones de agua potable según DIN 1988-2.**

Code	Size	Protocol function	Price	Class	Packaging
1000001134	Pipe max Ø DN 50 / 2"	✓	5.784,48 €	IR	1
1000000145	Pipe max Ø DN 50 / 2"	-	5.599,08 €	IR	1

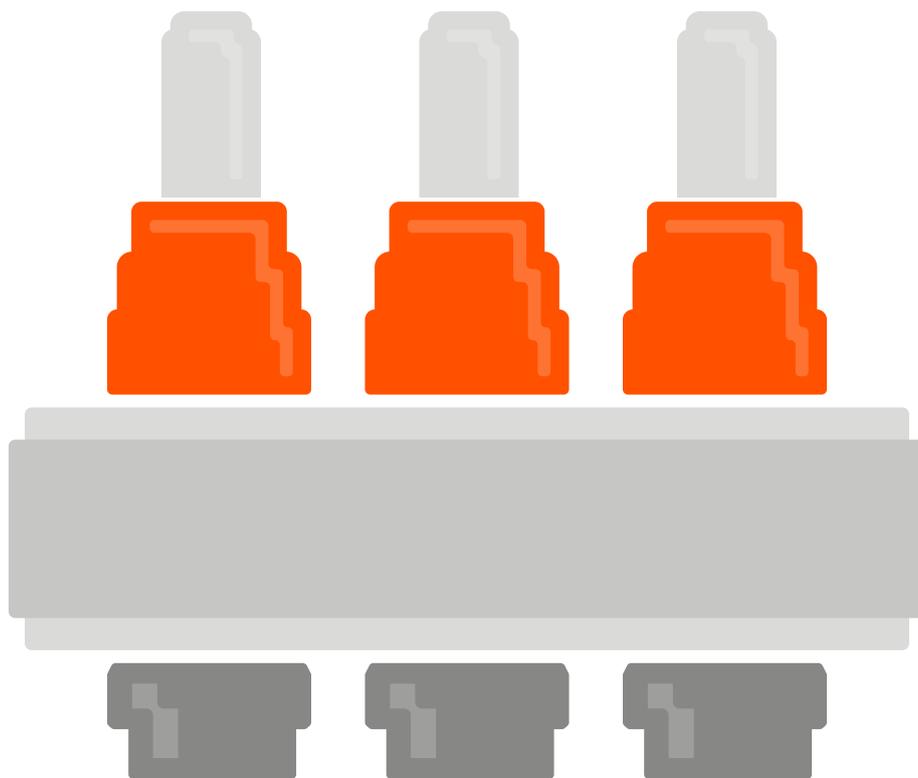
**PT 5706**


- **Tappo autofilettante.**
- *Self-threading plug.*
- **Bouchon à vis.**
- *Abdruckstopf.*
- **Tapón autorroscante.**

Code	Size	Color	Price	Class	Packaging
510112	16/2	■	10,74 €	JC	200
510114	20/2	■	10,98 €	JC	200



# MANIFOLDS



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**Collettori componibili EASY•RADIANT**  
*Modular manifolds EASY•RADIANT*  
**Collecteurs à éléments EASY•RADIANT**  
*Einbauverteiler EASY•RADIANT*  
**Colectores componibles EASY•RADIANT**

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**Collettori da barra in ottone**  
*Brass-rod manifolds*  
**Collecteurs de barre en laiton**  
*Verteiler aus Messingstangen*  
**Colectores de barra de latón**

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**Collettori in acciaio inox**  
*Stainless steel manifolds*  
**Collecteurs en acier inox**  
*Edelstahl-Verteiler*  
**Colectores de acero inoxidable**

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**Collettori in tecnopolimero**  
*Technopolymer manifolds*  
**Collecteurs en technopolymère**  
*Technopolymerverteiler*  
**Colectores en tecnopolímero**

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**Cassette**  
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**Cassettes**  
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**Terminali per collettori**  
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**Valvole di sfianto**  
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**Valvole di bypass**  
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**Vannes de bypass**  
*Bypass-Ventile*  
**Válvulas de bypass**

244

	<b>Raccordi e tappi</b> <i>Fittings and plugs</i> <b>Raccords et bouchons</b> <i>Verbinder und Verschlüsse</i> <b>Racores y tapones</b>	<b>246</b>
	<b>Ricambi e articoli complementari</b> <i>Spare parts and complementary items</i> <b>Pièces détachées et articles complémentaires</b> <i>Ersatzteile und Komplementärartikeln</i> <b>Repuestos y artículos complementarios</b>	<b>254</b>
	<b>Valvole a sfera</b> <i>Ball valves</i> <b>Vannes à bille</b> <i>Kugelventile</i> <b>Válvulas de bola</b>	<b>259</b>
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# EASY•RADIANT

The EASY•RADIANT series manifolds are used for distribution of the heat transfer fluid in radiant systems. They are equipped with Fluxer balancing devices on flow manifold and thermostatic inserts on return manifold. EASY•RADIANT series features the option for practical and simple interconnection with one another. Thanks to the offset design of the threads, manifolds remain aligned and the action of an O-ring ensures perfect sealing efficiency. This means there is no need for additional sealing elements such as hemp or PTFE or the use of additional sealants.

## Materials

Brass parts: yellow CW617N

Sealing elements: peroxide EPDM

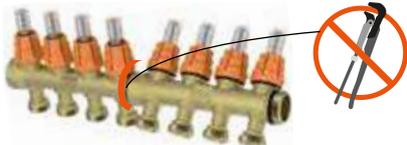
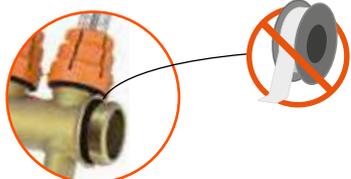
## Technical specifications

Max. fluid temperature inside manifold: 90 °C

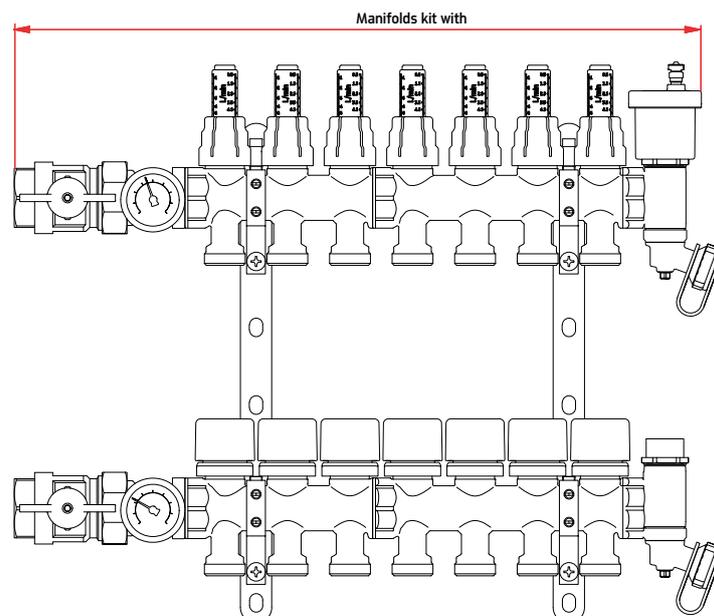
Maximum operating pressure: 10 bar

Outlet centre-to-centre distance: 40 mm

## ⊕ PLUS

- Automatic alignment thanks to offset threads 
- Offset female thread to house and safeguard the O-ring during installation
- Available with 3, 4 or 5 outlets and main fitting 1"
- Versions with outlets 3/4" EK and M24
- O-ring for soft seal: no additional sealant required 

## MANIFOLDS KIT WIDTH AND SUITABLE CABINET



Manifold ways	3	4	5	6	7	8	9	10	11	12	13
1" manifolds kit width	280 mm	320 mm	360 mm	400 mm	440 mm	480 mm	520 mm	560 mm	600 mm	640 mm	680 mm
Suitable cabinet	200086	200086	200086	200086	200686	200686	200186	200186	200186	200786	200786
Cabinet width	500 mm	500 mm	500 mm	500 mm	600 mm	600 mm	700 mm	700 mm	700 mm	800 mm	800 mm

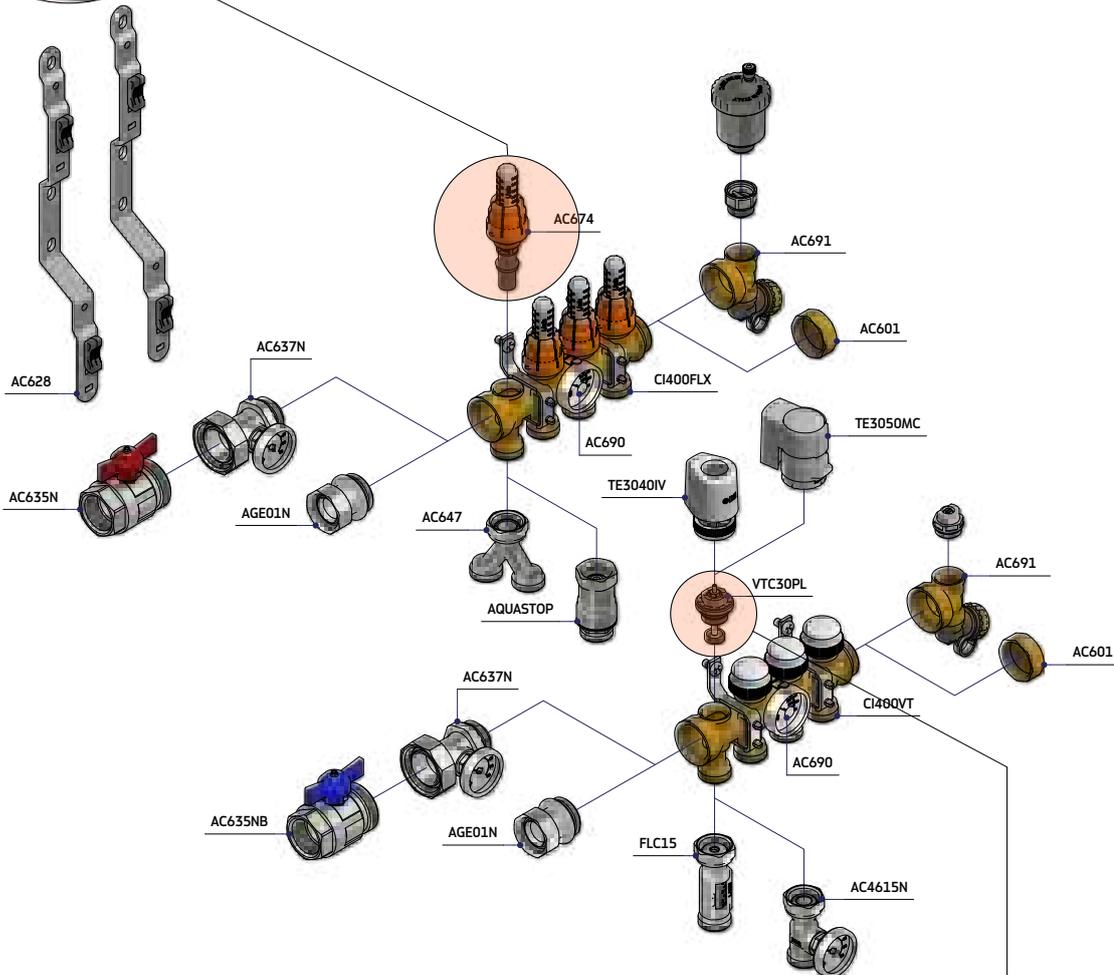
EXAMPLES OF APPLICATION FOR EASY•RADIANT MANIFOLD ACCESSORIES



**FLUXER®**

Fluxer is the IVAR device for balancing and the display of flow rates on single circuits.

Glass panel replaceable also with system in operation  
Possibility of shutoff and position memory



**INSERT WITH THERMOSTATIC CONTROL OPTION**

The manifolds with thermostat control option are supplied with a control knob serving to protect the thread and possible shutoff of the bypass circuit.



The control rod can also be replaced with the system in operation.



■ CI 400 KC



0-2,5 l/min ON REQUEST

- Kit EASY RADIANT (interasse 40 mm) composto da collettore componibile di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore componibile di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattizzabile e attacchi EUROK.
- EASY RADIANT kit (centre-to-centre distance 40 mm) made of modular flow manifold with flow meters/adjusters FLUXER (0-5 l/min), modular return manifold with isolation valves with protection cap for thermostatic insert and EUROK connections.
- Kit EASY RADIANT (empattement 40 mm) composé d'un collecteur à éléments d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur à éléments de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatisable et embouts EUROK.
- EASY RADIANT-Bausatz (Radstand 40 mm) besteht aus Vorlauf-Einbauverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklauf-Einbauverteiler mit Absperbarenventilen mit Schutzkappe für Thermostat-Regulievorrichtung und EUROK Anschließen.
- Conjunto EASY RADIANT (distancia entre ejes 40 mm) dotado de colector componible de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector componible de retorno con válvulas de cierre con tapa de protección para tornillo termostatizable y conexiones EUROK.

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506875	3	1" x EUROK	40 mm	Yellow	99,50 €	OH	1 / 8
506876	4	1" x EUROK	40 mm	Yellow	124,71 €	OH	1 / 8
506877	5	1" x EUROK	40 mm	Yellow	149,92 €	OH	1 / 8

■ CI 400 FLX



0-2,5 l/min ON REQUEST

- Collettore componibile serie EASY RADIANT (interasse 40 mm) di mandata con misuratore/regolatore portata FLUXER (0-5 l/min) e attacchi EUROK.
- Modular flow manifold EASY RADIANT series (centre-to-centre distance 40 mm) with flow meter/adjuster FLUXER (0-5 l/min) and EUROK connections.
- Collecteur à éléments série EASY RADIANT (empattement 40 mm) d'envoi avec débit-mètre/régulateur FLUXER (0-5 l/min) et embouts EUROK.
- Vorlauf-Einbauverteiler Serie EASY RADIANT (Radstand 40 mm) mit Durchflussmengenmesser FLUXER (0-5 l/min) und EUROK Anschließen.
- Colector componible serie EASY RADIANT (distancia entre ejes 40 mm) de impulsión con medidor/regulador de caudal FLUXER (0-5 l/min) y conexiones EUROK.

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506862	3	1" x EUROK	40 mm	Yellow	55,25 €	OH	18
506863	4	1" x EUROK	40 mm	Yellow	69,50 €	OH	15
506864	5	1" x EUROK	40 mm	Yellow	83,76 €	OH	15

■ CI 400 VT



- Collettore componibile serie EASY RADIANT (interasse 40 mm) di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattizzabile e attacchi EUROK.
- Modular return manifold EASY RADIANT series (centre-to-centre distance 40 mm) with isolation valves with protection cap for thermostatic insert and EUROK connections.
- Collecteur à éléments série EASY RADIANT (empattement 40 mm) de retour avec vannes d'interception avec capuchon de protection pour insert thermostatisable et embouts EUROK.
- Rücklauf-Einbauverteiler Serie EASY RADIANT (Radstand 40 mm) mit Absperbarenventilen mit Schutzkappe für Thermostat-Regulievorrichtung und EUROK Anschließen.
- Colector componible serie EASY RADIANT (distancia entre ejes 40 mm) de retorno con válvulas de cierre con tapa de protección para tornillo termostatizable y conexiones EUROK.

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506865C	3	1" x EUROK	40 mm	Yellow	44,26 €	OH	20
506866C	4	1" x EUROK	40 mm	Yellow	55,21 €	OH	18
506867C	5	1" x EUROK	40 mm	Yellow	66,16 €	OH	12



- Cassetta non inclusa >> p. 238
- Cabinet not included >> p. 238
- Casette pas inclus >> p. 238
- Kasten nicht enthalten >> p. 238
- Caja no incluida >> p. 238



- Raccordo per tubo multistrato >> p. 83,151,247,496
- Fitting for multilayer pipe >> p. 83,151,247,496
- Raccord pour tube multicouche >> p. 83,151,247,496
- Verschraubung für Verbundrohr >> p. 83,151,247,496
- Conexión para tubo multicapa >> p. 83,151,247,496



- Raccordo per tubo in polietilene >> p. 83,152,247,497
- Fitting for polyethylene pipe >> p. 83,152,247,497
- Raccord pour tube en polyéthylène >> p. 83,152,247,497
- Verschraubung für PEX-Rohr >> p. 83,152,247,497
- Conexión para tubo de polietileno >> p. 83,152,247,497



- Valvole a sfera >> p. 260,364,378
- Ball valves >> p. 260,364,378
- Vannes à bille >> p. 260,364,378
- Kugelventile >> p. 260,364,378
- Válvulas de bola >> p. 260,364,378

**AC 691**


- Kit di terminali orientabili per collettori EASY-RADIANT con rubinetti di scarico, valvola di ritegno, valvola di sfiato automatica e manuale.
- Kit of swiveling terminals for EASY-RADIANT manifolds with drainage valves, check valve, automatic and manual air vent valves.
- Kit de terminals orientables pour collecteurs EASY-RADIANT avec robinets de vidange, clapet de retenue, purgeur automatique et manuel.
- Verstellbare Endstück-Kit für EASY-RADIANT Verteiler mit Entleerungshahn, Rückschlagventil, automatischem und manuellem Entlüftungsventil.
- Kit de terminales orientables para colectores EASY-RADIANT con llaves de descarga, válvula de retención, válvula purgadora automática y manual.

Code	Size	Price	Class	Packaging
500134	1" F	34,49 €	NJ	1

**AC 628**


- Staffa doppia per collettori componibili serie EASY-LOCK / BASIC / EASY-RADIANT.
- Double bracket for modular manifolds EASY-LOCK / BASIC / EASY-RADIANT series.
- Étrier double pour collecteurs à éléments de la série EASY-LOCK / BASIC / EASY-RADIANT.
- Doppelt Wandalterung für Einbauverteiler der Serie EASY-LOCK / BASIC / EASY-RADIANT.
- Soporte doble para colectores componibles de la serie EASY-LOCK / BASIC / EASY-RADIANT.

Code	OC distance	Depth	Manifolds type	Price	Class	Packaging
501632	200 mm	80 mm	1" (EASY-LOCK / BASIC / EASY-RADIANT series)	5,95 €	NJ	1
501639	200 mm	95 mm	1" (EASY-LOCK / BASIC / EASY-RADIANT series)	5,56 €	NJ	2 / 70

**TE 3040 IV**


- Testa elettrotermica normalmente chiusa (2 fili) con logo IVAR. Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 40$  mm.
- Electrothermal head normally closed (2 wires) with IVAR logo. Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 40$  mm.
- Tête électrothermique normalement fermée (2 fils) avec logo IVAR. Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 40$  mm.
- Elektrothermischer Stellantrieb stromlos-zu (2 Kabel) mit IVAR-Logo. Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 40$  mm.
- Cabeza electrotrémica normalmente cerrada (de 2 hilos) con logo IVAR. Adecuada para todos los tornillos termostaticables IVAR y los colectores con distancia entre centros  $\geq 40$  mm.

Code	Size	Price	Class	Packaging
501508E	M30 x 1,5 ; ON / OFF (230 V AC)	22,92 €	AC	100

**TE 3050 MC**


- Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 40$  mm.
- Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 40$  mm.
- Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 40$  mm.
- Elektrothermischer Stellantrieb stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 40$  mm.
- Cabeza electrotrémica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostaticables IVAR y los colectores con distancia entre centros  $\geq 40$  mm.

Code	Size	Price	Class	Packaging
500808MC	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100

# BRASS-ROD MANIFOLDS

Bar manifolds are machined and undergo stress relieving heat treatment after mechanical processing. They are then assembled with automated processes and tested individually. A complete set of sizes are available, with versions and accessories for control of the single ways. They can be purchased pre-assembled on standard or lowered brackets in delivery/return kits. Numerous accessories complete the manifold with all components required for optimal system operation: ball shutoff valves, air purge valves, filler-drain valves, bypass valves, housing cabinets and individual isolation.

## Materials

Body: brass CW617N

Seals and O-rings: peroxide EPDM

Shutoff knobs and caps: ABS

## Technical specifications

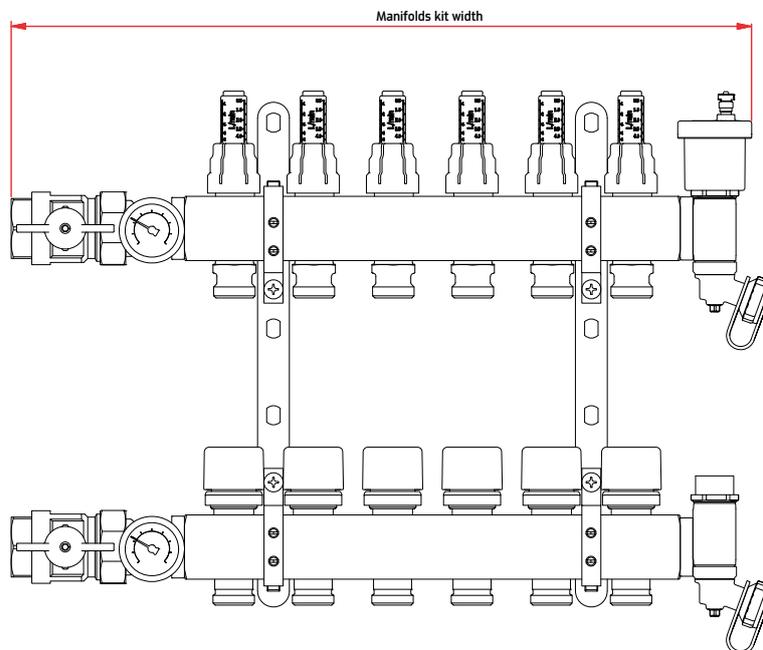
Max. fluid temperature: 120 °C; versions with FLUXER: 90 °C

Maximum operating pressure: 10 bar

## ⊕ PLUS

- Subject to stress relieving heat treatment to remove residual tension due to mechanical processing.
- Each manifold is tested to guarantee grip on assembled components and on 100% of production.
- Compatible with both low and high temperatures.

## MANIFOLDS KIT WIDTH AND SUITABLE CABINET



Manifold ways	2	3	4	5	6	7	8	9	10	11	12	13
1" manifolds kit width	266 mm	316 mm	366 mm	416 mm	466 mm	516 mm	566 mm	616 mm	666 mm	716 mm	766 mm	816 mm
1 1/4" manifolds kit width	300 mm	350 mm	400 mm	450 mm	500 mm	550 mm	600 mm	650 mm	700 mm	750 mm	800 mm	-
Suitable cabinet	200086	200086	200086	200686	200686	200186	200186	200786	200786	200286	200286	200886
Cabinet width	500 mm	500 mm	500 mm	600 mm	600 mm	700 mm	700 mm	800 mm	800 mm	900 mm	900 mm	1.000 mm

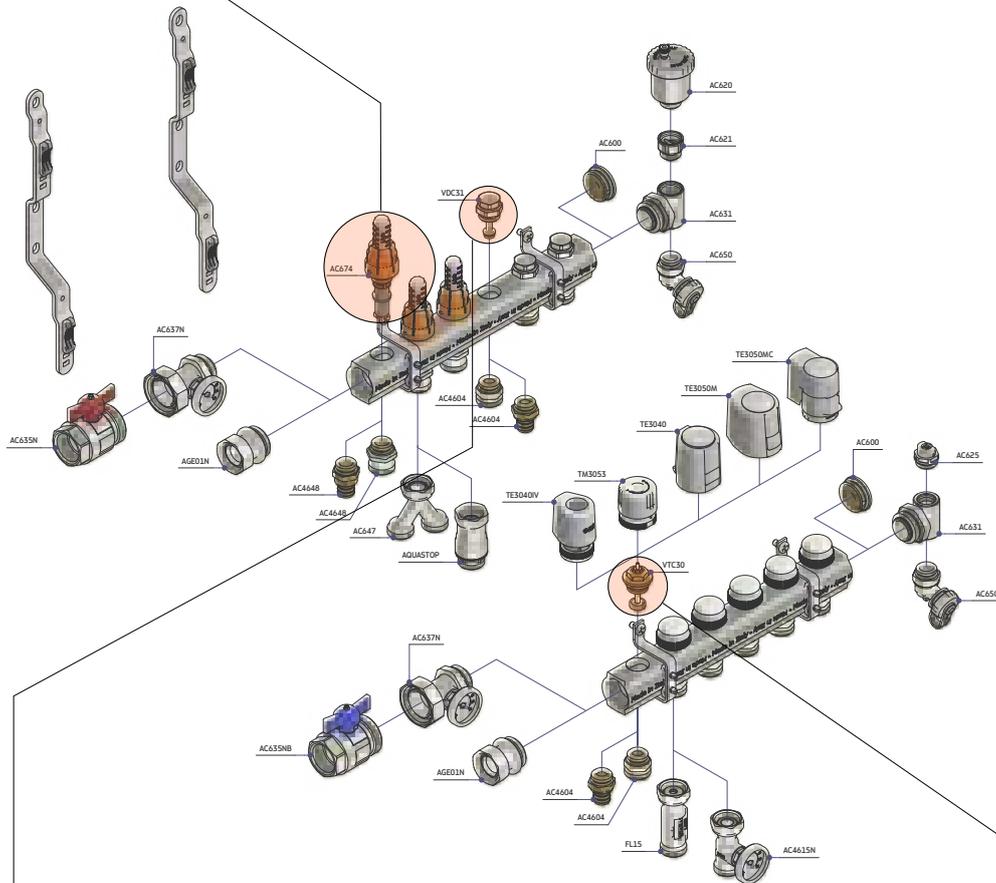
EXAMPLES OF APPLICATION FOR BRASS ROD MANIFOLD ACCESSORIES



**FLUXER®**

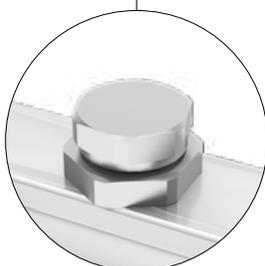
Fluxer is the IVAR device for balancing and the display of flow rates on single circuits.

Glass panel replaceable even with system in operation  
Isolation and position memory possible



**INSERT WITH THERMOSTATIC CONTROL OPTION**

The manifolds with thermostat control option are supplied with a control knob to protect the thread and possible isolation of the bypass circuit.



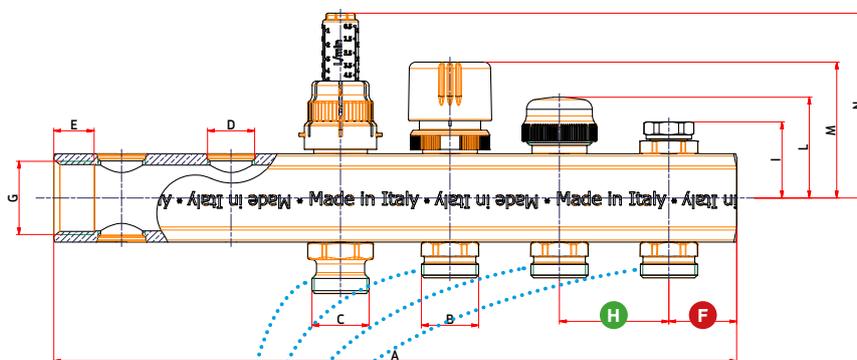
**LOCKSHIELD**

Used for the control and static balancing of circuits, equipped with a screw with micrometric thread for gradual opening of the shutter and position memory. The position memory enables shutoff of the circuit, leaving the grub screw position unchanged for subsequent re-opening.

The control rod can also be replaced with the system in operation.



### SINGLE MANIFOLD DIMENSIONS



Centre-to-centre distance

$$A = (\text{WAYS} - 1) \times H + (2 \times F)$$

Distance between centreline of last way and end of manifold

Size	3/4"	1"	1"1/4
A	$(\text{WAYS} - 1) \times H + (2 \times F)$		
B	EUROK	EUROK	EUROK
C	EUROK	EUROK	EUROK
D	1/2" F	1/2" F	1/2" F
E	15 mm	18 mm	19 mm
F	26,5 mm	31 mm	32 mm
G	3/4"	1"	1"1/4
H	40 mm	50 mm	50 mm
I	-	36 mm	41 mm
L	-	46,5 mm	51,5 mm
M	-	66,5 mm	72 mm
N	-	88 mm	93,5 mm

**CS 500 N**


- Collettore semplice.
- Plain manifold.
- Collecteur simple.
- Verteilerbalken.
- Colector simple.

Code	Ways	Size	Color	Price	Class	Packaging
500032N	2	3/4" x 1/2" F	■	12,62 €	NA	45
500033N	3	3/4" x 1/2" F	■	17,25 €	NA	30
500034N	4	3/4" x 1/2" F	■	21,83 €	NA	30
500035N	5	3/4" x 1/2" F	■	26,51 €	NA	30
500036N	6	3/4" x 1/2" F	■	31,17 €	NA	20
500037N	7	3/4" x 1/2" F	■	35,83 €	NA	20
500038N	8	3/4" x 1/2" F	■	40,43 €	NA	20
500039N	9	3/4" x 1/2" F	■	45,05 €	NA	20
500040N	10	3/4" x 1/2" F	■	49,72 €	NA	20
500041N	11	3/4" x 1/2" F	■	54,38 €	NA	18
500042N	12	3/4" x 1/2" F	■	58,93 €	NA	18
501402N	2	1" x 1/2" F	■	14,56 €	NA	64
501403N	3	1" x 1/2" F	■	20,31 €	NA	40
501404N	4	1" x 1/2" F	■	26,01 €	NA	32
501405N	5	1" x 1/2" F	■	31,81 €	NA	25
501406N	6	1" x 1/2" F	■	37,51 €	NA	24
501407N	7	1" x 1/2" F	■	43,21 €	NA	15
501408N	8	1" x 1/2" F	■	49,03 €	NA	15
501409N	9	1" x 1/2" F	■	54,76 €	NA	15
501410N	10	1" x 1/2" F	■	60,54 €	NA	15
501411N	11	1" x 1/2" F	■	66,27 €	NA	15
501412N	12	1" x 1/2" F	■	71,97 €	NA	15
501413N	13	1" x 1/2" F	■	77,78 €	NA	15
500792N	2	1"1/4 x 1/2" F	■	21,38 €	NA	10
500793N	3	1"1/4 x 1/2" F	■	29,83 €	NA	10
500794N	4	1"1/4 x 1/2" F	■	38,27 €	NA	10
500795N	5	1"1/4 x 1/2" F	■	46,73 €	NA	8
500796N	6	1"1/4 x 1/2" F	■	55,18 €	NA	8
500797N	7	1"1/4 x 1/2" F	■	63,56 €	NA	10
500798N	8	1"1/4 x 1/2" F	■	72,08 €	NA	10
500799N	9	1"1/4 x 1/2" F	■	80,53 €	NA	8
500800N	10	1"1/4 x 1/2" F	■	88,99 €	NA	8
500801N	11	1"1/4 x 1/2" F	■	97,44 €	NA	8
500802N	12	1"1/4 x 1/2" F	■	105,85 €	NA	8
500803N	13	1"1/4 x 1/2" F	■	114,31 €	NA	8



- È possibile ordinare questo articolo in versione gialla utilizzando il medesimo codice, ma omettendo la "N" finale (prezzo su richiesta).
- It is possible to order this item in yellow version; please use the same reference code without the "N" at the end (price on request).
- Il est possible de commander cet article en version jaune en utilisant le même code, mais en omettant le "N" final (prix sur demande).
- Gelbe Ausführung verfügbar. Dieselbe o.g. Bestellnummer aber bitte „N“ am Ende weglassen (Preis auf Anfrage).
- Puede pedir este artículo en la versión amarilla con el mismo código, pero sin la „N“ al final (precio disponible bajo petición).

### CS 501 N



- Collettore semplice con attacco supplementare per valvola di sfiato aria.
- Plain manifold with additional connection for air vent valve.
- Collecteur simple avec embout supplémentaire pour purgeur d'air.
- Verteilerbalken mit zusätzliche Bohrung für Entlüftungsventil.
- Colector de distribución con conexión adicional para válvula de purga del aire.

Code	Ways	Size	Color	Price	Class	Packaging
507002N	2	1" x 1/2" F	■	14,56 €	NA	64
507003N	3	1" x 1/2" F	■	20,31 €	NA	40
507004N	4	1" x 1/2" F	■	26,01 €	NA	32
507005N	5	1" x 1/2" F	■	31,81 €	NA	25
507006N	6	1" x 1/2" F	■	37,51 €	NA	22
507007N	7	1" x 1/2" F	■	43,21 €	NA	15
507008N	8	1" x 1/2" F	■	49,03 €	NA	15
507009N	9	1" x 1/2" F	■	54,76 €	NA	15
507010N	10	1" x 1/2" F	■	60,54 €	NA	15
507011N	11	1" x 1/2" F	■	66,27 €	NA	15
507012N	12	1" x 1/2" F	■	71,97 €	NA	15
507013N	13	1" x 1/2" F	■	77,78 €	NA	15
400362N	2	1"1/4 x 1/2" F	■	21,38 €	NA	12
400363N	3	1"1/4 x 1/2" F	■	29,83 €	NA	12
400364N	4	1"1/4 x 1/2" F	■	38,27 €	NA	10
400365N	5	1"1/4 x 1/2" F	■	46,73 €	NA	10
400366N	6	1"1/4 x 1/2" F	■	55,18 €	NA	10
400367N	7	1"1/4 x 1/2" F	■	63,56 €	NA	10
400368N	8	1"1/4 x 1/2" F	■	72,08 €	NA	10
400369N	9	1"1/4 x 1/2" F	■	80,53 €	NA	8
400370N	10	1"1/4 x 1/2" F	■	88,99 €	NA	8
400371N	11	1"1/4 x 1/2" F	■	97,44 €	NA	8
400372N	12	1"1/4 x 1/2" F	■	105,85 €	NA	8
400373N	13	1"1/4 x 1/2" F	■	114,31 €	NA	8



- È possibile ordinare questo articolo in versione gialla utilizzando il medesimo codice, ma omettendo la "N" finale (prezzo su richiesta).
- It is possible to order this item in yellow version; please use the same reference code without the "N" at the end (price on request).
- Il est possible de commander cet article en version jaune en utilisant le même code, mais en omettant le "N" final (prix sur demande).
- Gelbe Ausführung verfügbar. Dieselbe o.g. Bestellnummer aber bitte „N“ am Ende weglassen (Preis auf Anfrage).
- Puede pedir este artículo en la versión amarilla con el mismo código, pero sin la „N“ al final (precio disponible bajo petición).

**CS 502 N**


- Collettore semplice con attacchi EUROK.
- Plain manifold with EUROK connections.
- Collecteur simple avec embouts EUROK.
- Verteilerbalken mit EUROK Anschlussnippeln.
- Colector simple con conexiones EUROK.

Code	Ways	Size	Color	Price	Class	Packaging
400812N	2	3/4" x EUROK	■	17,25 €	NA	50
400813N	3	3/4" x EUROK	■	24,16 €	NA	38
400814N	4	3/4" x EUROK	■	31,05 €	NA	25
400815N	5	3/4" x EUROK	■	37,97 €	NA	22
400816N	6	3/4" x EUROK	■	44,90 €	NA	18
400817N	7	3/4" x EUROK	■	51,78 €	NA	16
400818N	8	3/4" x EUROK	■	58,71 €	NA	16
400819N	9	3/4" x EUROK	■	65,55 €	NA	14
400820N	10	3/4" x EUROK	■	72,47 €	NA	14
400821N	11	3/4" x EUROK	■	79,35 €	NA	14
400822N	12	3/4" x EUROK	■	86,28 €	NA	14
400392N	2	1" x EUROK	■	20,15 €	NA	35
400393N	3	1" x EUROK	■	28,60 €	NA	28
400394N	4	1" x EUROK	■	37,10 €	NA	20
400395N	5	1" x EUROK	■	45,54 €	NA	15
400396N	6	1" x EUROK	■	53,99 €	NA	15
400397N	7	1" x EUROK	■	62,40 €	NA	12
400398N	8	1" x EUROK	■	70,90 €	NA	12
400399N	9	1" x EUROK	■	79,35 €	NA	12
400400N	10	1" x EUROK	■	87,80 €	NA	12
400401N	11	1" x EUROK	■	96,29 €	NA	10
400402N	12	1" x EUROK	■	104,74 €	NA	10
400403N	13	1" x EUROK	■	113,19 €	NA	10
400432N	2	1"1/4 x EUROK	■	26,65 €	NA	10
400433N	3	1"1/4 x EUROK	■	37,66 €	NA	10
400434N	4	1"1/4 x EUROK	■	48,72 €	NA	10
400435N	5	1"1/4 x EUROK	■	59,70 €	NA	8
400436N	6	1"1/4 x EUROK	■	70,71 €	NA	6
400437N	7	1"1/4 x EUROK	■	81,68 €	NA	6
400438N	8	1"1/4 x EUROK	■	92,77 €	NA	6
400439N	9	1"1/4 x EUROK	■	103,80 €	NA	6
400440N	10	1"1/4 x EUROK	■	114,76 €	NA	6
400441N	11	1"1/4 x EUROK	■	125,82 €	NA	5
400442N	12	1"1/4 x EUROK	■	136,83 €	NA	5
400443N	13	1"1/4 x EUROK	■	147,89 €	NA	5



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## CI 552 N



- Collettore di mandata con detentori a doppia regolazione micrometrica e attacchi EUROK.
- Flow manifold with micrometric dually adjusted lockshields and EUROK connections.
- Collecteur d'envoi avec inserts à double réglage micrométrique et embouts EUROK.
- Zulaufußbodenheizungsverteilerbalken mit doppelfeinvorein Stellbarenausgleichoberteile und EUROK Anschließen.
- Colector de impulsión con detentores de doble regulación micrométrica y conexiones EUROK.

Code	Ways	Size	Color	Price	Class	Packaging
400042N	2	1" x EUROK	■	28,60 €	NC	12
400043N	3	1" x EUROK	■	41,26 €	NC	12
400044N	4	1" x EUROK	■	53,89 €	NC	8
400045N	5	1" x EUROK	■	66,54 €	NC	6
400046N	6	1" x EUROK	■	79,19 €	NC	6
400047N	7	1" x EUROK	■	91,85 €	NC	6
400048N	8	1" x EUROK	■	104,47 €	NC	6
400049N	9	1" x EUROK	■	117,16 €	NC	6
400050N	10	1" x EUROK	■	129,76 €	NC	6
400051N	11	1" x EUROK	■	142,44 €	NC	6
400052N	12	1" x EUROK	■	155,13 €	NC	6
400053N	13	1" x EUROK	■	167,73 €	NC	6
400082N	2	1"1/4 x EUROK	■	35,06 €	NC	12
400083N	3	1"1/4 x EUROK	■	50,39 €	NC	10
400084N	4	1"1/4 x EUROK	■	65,76 €	NC	8
400085N	5	1"1/4 x EUROK	■	81,13 €	NC	8
400086N	6	1"1/4 x EUROK	■	96,51 €	NC	6
400087N	7	1"1/4 x EUROK	■	111,83 €	NC	5
400088N	8	1"1/4 x EUROK	■	127,29 €	NC	5
400089N	9	1"1/4 x EUROK	■	142,59 €	NC	4
400090N	10	1"1/4 x EUROK	■	157,93 €	NC	4
400091N	11	1"1/4 x EUROK	■	173,37 €	NC	4
400092N	12	1"1/4 x EUROK	■	188,67 €	NC	4
400093N	13	1"1/4 x EUROK	■	204,00 €	NC	4



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**CI 553 N**


- Collettore di mandata con detentori a doppia regolazione micrometrica, attacchi EUROK, attacchi supplementari per valvola di sfioro aria e valvola di carico/scarico.
- Flow manifold with micrometric dually adjusted lockshields, EUROK connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur d'envoi avec inserts à double réglage micrométrique, embouts EUROK, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Zulauffussbodenheizungsverteilerbalken mit doppelfeinvorein Stellbareausgleichoberteile, EUROK Anschlüsse und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de impulsión con detentores de doble regulación micrométrica, conexiones EUROK, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Color	Price	Class	Packaging
500962N	2	1" x EUROK	■	35,06 €	NC	12
500963N	3	1" x EUROK	■	47,67 €	NC	8
500964N	4	1" x EUROK	■	60,35 €	NC	6
500965N	5	1" x EUROK	■	72,95 €	NC	6
500966N	6	1" x EUROK	■	85,63 €	NC	6
500967N	7	1" x EUROK	■	98,32 €	NC	6
500968N	8	1" x EUROK	■	110,93 €	NC	6
500969N	9	1" x EUROK	■	123,61 €	NC	6
500970N	10	1" x EUROK	■	136,21 €	NC	6
500971N	11	1" x EUROK	■	148,89 €	NC	6
500972N	12	1" x EUROK	■	161,58 €	NC	6
400002N	2	1"1/4 x EUROK	■	44,05 €	NC	10
400003N	3	1"1/4 x EUROK	■	59,39 €	NC	8
400004N	4	1"1/4 x EUROK	■	74,80 €	NC	8
400005N	5	1"1/4 x EUROK	■	90,14 €	NC	6
400006N	6	1"1/4 x EUROK	■	105,51 €	NC	5
400007N	7	1"1/4 x EUROK	■	120,87 €	NC	5
400008N	8	1"1/4 x EUROK	■	136,21 €	NC	4
400009N	9	1"1/4 x EUROK	■	151,58 €	NC	4
400010N	10	1"1/4 x EUROK	■	166,96 €	NC	4
400011N	11	1"1/4 x EUROK	■	182,37 €	NC	4
400012N	12	1"1/4 x EUROK	■	197,66 €	NC	4



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## CI 600 N



- Collettore di mandata con misuratore/regolatore portata FLUXER (0-5 l/min) e attacchi EUROK.
- Flow manifold with flow meter/adjuster FLUXER (0-5 l/min) and EUROK connections.
- Collecteur d'envoi avec débit-mètre/régulateur FLUXER (0-5 l/min) et embouts EUROK.
- Vorlaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min) und EUROK Anschlüssen.
- Colector de impulsión medidor/regulador de caudal FLUXER (0-5 l/min) y conexiones EUROK.



0-2,5 l/min ON REQUEST

Code	Ways	Size	Color	Price	Class	Packaging
502372N	2	1" x EUROK	■	50,87 €	NE	12
502373N	3	1" x EUROK	■	75,04 €	NE	12
502374N	4	1" x EUROK	■	98,88 €	NE	8
502375N	5	1" x EUROK	■	122,90 €	NE	6
502376N	6	1" x EUROK	■	147,04 €	NE	6
502377N	7	1" x EUROK	■	171,06 €	NE	6
502378N	8	1" x EUROK	■	195,20 €	NE	6
502379N	9	1" x EUROK	■	219,54 €	NE	6
502380N	10	1" x EUROK	■	242,34 €	NE	6
502381N	11	1" x EUROK	■	267,85 €	NE	6
502382N	12	1" x EUROK	■	291,58 €	NE	6
502383N	13	1" x EUROK	■	317,75 €	NE	6
502392N	2	1"1/4 x EUROK	■	55,00 €	NE	8
502393N	3	1"1/4 x EUROK	■	80,51 €	NE	6
502394N	4	1"1/4 x EUROK	■	106,15 €	NE	5
502395N	5	1"1/4 x EUROK	■	131,71 €	NE	5
502396N	6	1"1/4 x EUROK	■	157,25 €	NE	5
502397N	7	1"1/4 x EUROK	■	182,85 €	NE	5
502398N	8	1"1/4 x EUROK	■	208,36 €	NE	5
502399N	9	1"1/4 x EUROK	■	233,90 €	NE	5
502400N	10	1"1/4 x EUROK	■	259,45 €	NE	5
502401N	11	1"1/4 x EUROK	■	285,04 €	NE	5
502402N	12	1"1/4 x EUROK	■	310,58 €	NE	5
502403N	13	1"1/4 x EUROK	■	336,18 €	NE	5



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**CI 601 N**


0-2,5 l/min ON REQUEST

- Collettore di mandata con misuratore/regolatore portata FLUXER (0-5 l/min), attacchi EUROK, attacchi supplementari per valvola di sfiato aria e valvola di carico/scarico.
- Flow manifold with flow meter/adjuster FLUXER (0-5 l/min), EUROK connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur d'envoi avec débit-mètre/régulateur FLUXER (0-5 l/min), embouts EUROK, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Vorlaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), EUROK Anschlüssen und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de impulsión medidor/regulador de caudal FLUXER (0-5 l/min), conexiones EUROK, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Color	Price	Class	Packaging
502082N	2	1" x EUROK	■	56,62 €	NE	12
502083N	3	1" x EUROK	■	80,79 €	NE	8
502084N	4	1" x EUROK	■	104,64 €	NE	6
502085N	5	1" x EUROK	■	128,67 €	NE	6
502086N	6	1" x EUROK	■	152,79 €	NE	6
502087N	7	1" x EUROK	■	176,82 €	NE	6
502088N	8	1" x EUROK	■	200,95 €	NE	6
502089N	9	1" x EUROK	■	225,33 €	NE	6
502090N	10	1" x EUROK	■	248,09 €	NE	6
502091N	11	1" x EUROK	■	273,64 €	NE	6
502092N	12	1" x EUROK	■	297,37 €	NE	6
502182N	2	1"1/4 x EUROK	■	63,32 €	NE	6
502183N	3	1"1/4 x EUROK	■	88,86 €	NE	6
502184N	4	1"1/4 x EUROK	■	114,48 €	NE	5
502185N	5	1"1/4 x EUROK	■	140,05 €	NE	5
502186N	6	1"1/4 x EUROK	■	165,56 €	NE	5
502187N	7	1"1/4 x EUROK	■	191,18 €	NE	5
502188N	8	1"1/4 x EUROK	■	216,72 €	NE	5
502189N	9	1"1/4 x EUROK	■	242,27 €	NE	5
502190N	10	1"1/4 x EUROK	■	267,81 €	NE	5
502191N	11	1"1/4 x EUROK	■	293,36 €	NE	5
502192N	12	1"1/4 x EUROK	■	318,90 €	NE	5



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**CI 554 CN**


- Collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vite termostattizzabile e attacchi EUROK.
- Return manifold with isolation valves with protection cap for thermostatic insert and EUROK connections.
- Collecteur de retour avec vannes d'interception avec capuchon de protection pour insert thermostatisable et embouts EUROK.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbarenventilen mit Schutzkappe für Thermostat-Reguliovorrichtung und EUROK Anschlüsse.
- Colector de retorno con válvulas de cierre con tapa de protección para tornillo termostaticable y conexiones EUROK.

Code	Ways	Size	Color	Price	Class	Packaging
501650CN	2	1" x EUROK	■	32,55 €	NC	12
501651CN	3	1" x EUROK	■	47,26 €	NC	12
501652CN	4	1" x EUROK	■	61,96 €	NC	8
501653CN	5	1" x EUROK	■	76,64 €	NC	6
501654CN	6	1" x EUROK	■	91,35 €	NC	6
501655CN	7	1" x EUROK	■	106,06 €	NC	6
501656CN	8	1" x EUROK	■	120,72 €	NC	6
501657CN	9	1" x EUROK	■	135,40 €	NC	6
501658CN	10	1" x EUROK	■	150,11 €	NC	6
501659CN	11	1" x EUROK	■	164,81 €	NC	6
501660CN	12	1" x EUROK	■	179,49 €	NC	6
501661CN	13	1" x EUROK	■	194,19 €	NC	6
400122CN	2	1"1/4 x EUROK	■	39,81 €	NC	12
400123CN	3	1"1/4 x EUROK	■	57,62 €	NC	10
400124CN	4	1"1/4 x EUROK	■	75,58 €	NC	8
400125CN	5	1"1/4 x EUROK	■	93,41 €	NC	8
400126CN	6	1"1/4 x EUROK	■	111,29 €	NC	6
400127CN	7	1"1/4 x EUROK	■	129,09 €	NC	5
400128CN	8	1"1/4 x EUROK	■	147,02 €	NC	5
400129CN	9	1"1/4 x EUROK	■	164,81 €	NC	4
400130CN	10	1"1/4 x EUROK	■	182,70 €	NC	4
400131CN	11	1"1/4 x EUROK	■	200,58 €	NC	4
400132CN	12	1"1/4 x EUROK	■	218,42 €	NC	4
400133CN	13	1"1/4 x EUROK	■	236,26 €	NC	4



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**CI 555 CN**


- Collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattizzabile, attacchi EUROK, attacchi supplementari per valvola di sfiato aria e valvola di carico/scarico.
- Return manifold with isolation valves with protection cap for thermostatic insert, EUROK connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur de retour avec vannes d'interception avec capuchon de protection pour insert thermostatisable, embouts EUROK, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbareventilen mit Schutzkappe für Thermostat-Reguliervorrichtung, EUROK Anschlüssen und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de retorno con válvulas de cierre con tapa de protección para tornillo termostaticable, conexiones EUROK, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Color	Price	Class	Packaging
500462CN	2	1" x EUROK	■	40,62 €	NC	12
500463CN	3	1" x EUROK	■	56,03 €	NC	8
500464CN	4	1" x EUROK	■	71,47 €	NC	6
500465CN	5	1" x EUROK	■	86,93 €	NC	6
500466CN	6	1" x EUROK	■	102,41 €	NC	6
500467CN	7	1" x EUROK	■	117,82 €	NC	6
500468CN	8	1" x EUROK	■	133,19 €	NC	6
500469CN	9	1" x EUROK	■	148,63 €	NC	6
500470CN	10	1" x EUROK	■	164,05 €	NC	6
500471CN	11	1" x EUROK	■	179,49 €	NC	6
500472CN	12	1" x EUROK	■	194,85 €	NC	6
400022CN	2	1"1/4 x EUROK	■	48,39 €	NC	1
400023CN	3	1"1/4 x EUROK	■	66,20 €	NC	1
400024CN	4	1"1/4 x EUROK	■	84,16 €	NC	1
400025CN	5	1"1/4 x EUROK	■	101,97 €	NC	1
400026CN	6	1"1/4 x EUROK	■	119,88 €	NC	1
400027CN	7	1"1/4 x EUROK	■	137,69 €	NC	1
400028CN	8	1"1/4 x EUROK	■	155,56 €	NC	5
400029CN	9	1"1/4 x EUROK	■	173,40 €	NC	8
400030CN	10	1"1/4 x EUROK	■	191,29 €	NC	8
400031CN	11	1"1/4 x EUROK	■	209,16 €	NC	8
400032CN	12	1"1/4 x EUROK	■	227,01 €	NC	8



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### CI 554 MN



- Collettore di ritorno con valvole di intercettazione a manovra manuale e attacchi EUROK.
- Return manifold with manually operated isolation valves and EUROK connections.
- Collecteur de retour avec vannes d'interception à manoeuvre manuelle et embouts EUROK.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbarenventilen mit manueller Hebel und EUROK Anschließen.
- Colector de retorno con válvulas de cierre con cabeza manual y conexiones EUROK.

Code	Ways	Size	Color	Price	Class	Packaging
501650MN	2	1" x EUROK	■	33,73 €	NC	12
501651MN	3	1" x EUROK	■	49,06 €	NC	12
501652MN	4	1" x EUROK	■	64,34 €	NC	8
501653MN	5	1" x EUROK	■	79,59 €	NC	6
501654MN	6	1" x EUROK	■	94,89 €	NC	6
501655MN	7	1" x EUROK	■	110,22 €	NC	6
501656MN	8	1" x EUROK	■	125,45 €	NC	6
501657MN	9	1" x EUROK	■	140,70 €	NC	6
501658MN	10	1" x EUROK	■	155,97 €	NC	6
501659MN	11	1" x EUROK	■	171,31 €	NC	6
501660MN	12	1" x EUROK	■	186,53 €	NC	6
501661MN	13	1" x EUROK	■	201,86 €	NC	6
400122MN	2	1"1/4 x EUROK	■	40,92 €	NC	10
400123MN	3	1"1/4 x EUROK	■	59,31 €	NC	8
400124MN	4	1"1/4 x EUROK	■	77,81 €	NC	8
400125MN	5	1"1/4 x EUROK	■	96,22 €	NC	6
400126MN	6	1"1/4 x EUROK	■	114,64 €	NC	6
400127MN	7	1"1/4 x EUROK	■	133,05 €	NC	5
400128MN	8	1"1/4 x EUROK	■	151,48 €	NC	5
400129MN	9	1"1/4 x EUROK	■	169,87 €	NC	5
400130MN	10	1"1/4 x EUROK	■	188,34 €	NC	5
400131MN	11	1"1/4 x EUROK	■	206,78 €	NC	5
400132MN	12	1"1/4 x EUROK	■	225,17 €	NC	5
400133MN	13	1"1/4 x EUROK	■	243,55 €	NC	5



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**CI 555 MN**


- Collettore di ritorno con valvole di intercettazione a manovra manuale, attacchi EUROK, attacchi supplementari per valvola di sfiato aria e valvola di carico/scarico.
- Return manifold with manually operated isolation valves, EUROK connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur de retour avec vannes d'interception à manoeuvre manuelle, embouts EUROK, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbareventilen mit manueller Hebel, EUROK Anschlüssen und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de retorno con válvulas de cierre con cabeza manual, conexiones EUROK, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Color	Price	Class	Packaging
500462MN	2	1" x EUROK	■	39,84 €	NC	12
500463MN	3	1" x EUROK	■	55,18 €	NC	8
500464MN	4	1" x EUROK	■	70,45 €	NC	6
500465MN	5	1" x EUROK	■	85,74 €	NC	6
500466MN	6	1" x EUROK	■	101,01 €	NC	6
500467MN	7	1" x EUROK	■	116,35 €	NC	6
500468MN	8	1" x EUROK	■	131,57 €	NC	6
500469MN	9	1" x EUROK	■	146,83 €	NC	6
500470MN	10	1" x EUROK	■	162,13 €	NC	6
500471MN	11	1" x EUROK	■	177,47 €	NC	6
500472MN	12	1" x EUROK	■	192,68 €	NC	6
400022MN	2	1"1/4 x EUROK	■	49,51 €	NC	8
400023MN	3	1"1/4 x EUROK	■	67,90 €	NC	1
400024MN	4	1"1/4 x EUROK	■	86,40 €	NC	1
400025MN	5	1"1/4 x EUROK	■	104,80 €	NC	1
400026MN	6	1"1/4 x EUROK	■	123,23 €	NC	1
400027MN	7	1"1/4 x EUROK	■	141,63 €	NC	1
400028MN	8	1"1/4 x EUROK	■	160,07 €	NC	5
400029MN	9	1"1/4 x EUROK	■	178,46 €	NC	5
400030MN	10	1"1/4 x EUROK	■	196,93 €	NC	5
400031MN	11	1"1/4 x EUROK	■	215,36 €	NC	5
400032MN	12	1"1/4 x EUROK	■	233,76 €	NC	5



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### CI 562 CN



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattizzabile, staffe e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with isolation valves with protection cap for thermostatic insert, brackets and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatisable, étriers et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbarenausgleichoberteile, Rücklaufverteiler mit Absperbareventilen mit Schutzkappe für Thermostat-Regulivorrichtung, Haltebügel und EUROK Anschließen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con tapa de protección para tornillo termostattizable, abrazaderas y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
400242CNP80	2	1" x EUROK	80 mm	200086	500 mm	■	76,42 €	NC	1
400243CNP80	3	1" x EUROK	80 mm	200086	500 mm	■	103,78 €	NC	1
400244CNP80	4	1" x EUROK	80 mm	200086	500 mm	■	131,09 €	NC	1
400245CNP80	5	1" x EUROK	80 mm	200086	500 mm	■	158,33 €	NC	1
400246CNP80	6	1" x EUROK	80 mm	200086	500 mm	■	185,68 €	NC	1
400247CNP80	7	1" x EUROK	80 mm	200086	500 mm	■	213,00 €	NC	1
400248CNP80	8	1" x EUROK	80 mm	200086	500 mm	■	240,27 €	NC	1
400249CNP80	9	1" x EUROK	80 mm	200686	600 mm	■	267,62 €	NC	1
400250CNP80	10	1" x EUROK	80 mm	200686	600 mm	■	294,90 €	NC	1
400251CNP80	11	1" x EUROK	80 mm	200186	700 mm	■	322,26 €	NC	1
400252CNP80	12	1" x EUROK	80 mm	200186	700 mm	■	349,54 €	NC	1
400253CNP80	13	1" x EUROK	80 mm	200786	800 mm	■	376,93 €	NC	1
400242CN	2	1" x EUROK	110 mm	200086	500 mm	■	76,42 €	NC	1
400243CN	3	1" x EUROK	110 mm	200086	500 mm	■	103,78 €	NC	1
400244CN	4	1" x EUROK	110 mm	200086	500 mm	■	131,09 €	NC	1
400245CN	5	1" x EUROK	110 mm	200086	500 mm	■	158,33 €	NC	1
400246CN	6	1" x EUROK	110 mm	200086	500 mm	■	185,68 €	NC	1
400247CN	7	1" x EUROK	110 mm	200086	500 mm	■	213,00 €	NC	1
400248CN	8	1" x EUROK	110 mm	200086	500 mm	■	240,27 €	NC	1
400249CN	9	1" x EUROK	110 mm	200686	600 mm	■	267,62 €	NC	1
400250CN	10	1" x EUROK	110 mm	200686	600 mm	■	294,90 €	NC	1
400251CN	11	1" x EUROK	110 mm	200186	700 mm	■	322,26 €	NC	1
400252CN	12	1" x EUROK	110 mm	200186	700 mm	■	349,54 €	NC	1
400253CN	13	1" x EUROK	110 mm	200786	800 mm	■	376,93 €	NC	1
400282CN	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	90,17 €	NC	1
400283CN	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	123,35 €	NC	1
400284CN	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	156,63 €	NC	1
400285CN	5	1"1/4 x EUROK	110 mm	200086	500 mm	■	189,81 €	NC	1
400286CN	6	1"1/4 x EUROK	110 mm	200086	500 mm	■	223,14 €	NC	1
400287CN	7	1"1/4 x EUROK	110 mm	200086	500 mm	■	256,27 €	NC	1
400288CN	8	1"1/4 x EUROK	110 mm	200086	500 mm	■	289,60 €	NC	1
400289CN	9	1"1/4 x EUROK	110 mm	200686	600 mm	■	322,74 €	NC	1
400290CN	10	1"1/4 x EUROK	110 mm	200686	600 mm	■	355,96 €	NC	1
400291CN	11	1"1/4 x EUROK	110 mm	200186	700 mm	■	389,24 €	NC	1
400292CN	12	1"1/4 x EUROK	110 mm	200186	700 mm	■	422,42 €	NC	1
400293CN	13	1"1/4 x EUROK	110 mm	200786	800 mm	■	455,60 €	NC	1



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**CI 594 CN**


- **Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattabile, staffe, attacchi supplementari per valvole di carico/scarico e valvole di sfiato aria, attacchi EUROK.**
- *Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with isolation valves with protection cap for thermostatic insert, brackets, additional connections for filling/drainage valves and air vent valves, EUROK connections.*
- **Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatisable, étriers, embouts supplémentaires pour robinets de remplissage/vidange et purgeurs d'air, embouts EUROK.**
- *Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbarenausgleichoberteile, Rücklaufverteiler mit Absperbarenventilen mit Schutzkappe für Thermostat-Regulievorrichtung, Haltebügel, zusätzliche Anschlüsse für Lade-/Entladeventile und Entlüftungsventile, EUROK Anschlüssen.*
- **Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con tapa de protección para tornillo termostattizable, abrazaderas, conexiones adicionales para válvulas para la carga/descarga y válvulas de purga de aire, conexiones EUROK.**

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
500922CNP80	2	1" x EUROK	80 mm	200086	500 mm	■	88,69 €	NC	1
500923CNP80	3	1" x EUROK	80 mm	200086	500 mm	■	116,05 €	NC	1
500924CNP80	4	1" x EUROK	80 mm	200086	500 mm	■	143,36 €	NC	1
500925CNP80	5	1" x EUROK	80 mm	200086	500 mm	■	170,60 €	NC	1
500926CNP80	6	1" x EUROK	80 mm	200086	500 mm	■	197,92 €	NC	1
500927CNP80	7	1" x EUROK	80 mm	200086	500 mm	■	225,28 €	NC	1
500928CNP80	8	1" x EUROK	80 mm	200086	500 mm	■	252,56 €	NC	1
500929CNP80	9	1" x EUROK	80 mm	200686	600 mm	■	279,91 €	NC	1
500930CNP80	10	1" x EUROK	80 mm	200686	600 mm	■	307,18 €	NC	1
500931CNP80	11	1" x EUROK	80 mm	200186	700 mm	■	334,50 €	NC	1
500932CNP80	12	1" x EUROK	80 mm	200186	700 mm	■	361,78 €	NC	1
500922CN	2	1" x EUROK	110 mm	200086	500 mm	■	88,69 €	NC	1
500923CN	3	1" x EUROK	110 mm	200086	500 mm	■	116,05 €	NC	1
500924CN	4	1" x EUROK	110 mm	200086	500 mm	■	143,36 €	NC	1
500925CN	5	1" x EUROK	110 mm	200086	500 mm	■	170,60 €	NC	1
500926CN	6	1" x EUROK	110 mm	200086	500 mm	■	197,92 €	NC	1
500927CN	7	1" x EUROK	110 mm	200086	500 mm	■	225,28 €	NC	1
500928CN	8	1" x EUROK	110 mm	200086	500 mm	■	252,56 €	NC	1
500929CN	9	1" x EUROK	110 mm	200686	600 mm	■	279,91 €	NC	1
500930CN	10	1" x EUROK	110 mm	200686	600 mm	■	307,18 €	NC	1
500931CN	11	1" x EUROK	110 mm	200186	700 mm	■	334,50 €	NC	1
500932CN	12	1" x EUROK	110 mm	200186	700 mm	■	361,78 €	NC	1
400342CN	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	107,34 €	NC	1
400343CN	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	140,52 €	NC	1
400344CN	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	173,82 €	NC	1
400345CN	5	1"1/4 x EUROK	110 mm	200086	500 mm	■	206,99 €	NC	1
400346CN	6	1"1/4 x EUROK	110 mm	200086	500 mm	■	240,27 €	NC	1
400347CN	7	1"1/4 x EUROK	110 mm	200086	500 mm	■	273,45 €	NC	1
400348CN	8	1"1/4 x EUROK	110 mm	200086	500 mm	■	306,77 €	NC	1
400349CN	9	1"1/4 x EUROK	110 mm	200686	600 mm	■	339,92 €	NC	1
400350CN	10	1"1/4 x EUROK	110 mm	200686	600 mm	■	373,13 €	NC	1
400351CN	11	1"1/4 x EUROK	110 mm	200186	700 mm	■	406,39 €	NC	1
400352CN	12	1"1/4 x EUROK	110 mm	200186	700 mm	■	439,60 €	NC	1



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## CI 562 MN



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit doppelfeinvorein Stellbarenausgleicherteile, Rücklaufverteiler mit Absperbarentilen mit manueller Hebel, Haltebügel und EUROK Anschließen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
400242MNP80	2	1" x EUROK	80 mm	200086	500 mm	■	77,60 €	NC	1
400243MNP80	3	1" x EUROK	80 mm	200086	500 mm	■	105,51 €	NC	1
400244MNP80	4	1" x EUROK	80 mm	200086	500 mm	■	133,44 €	NC	1
400245MNP80	5	1" x EUROK	80 mm	200086	500 mm	■	161,31 €	NC	1
400246MNP80	6	1" x EUROK	80 mm	200086	500 mm	■	189,25 €	NC	1
400247MNP80	7	1" x EUROK	80 mm	200086	500 mm	■	217,16 €	NC	1
400248MNP80	8	1" x EUROK	80 mm	200086	500 mm	■	245,03 €	NC	1
400249MNP80	9	1" x EUROK	80 mm	200686	600 mm	■	272,94 €	NC	1
400250MNP80	10	1" x EUROK	80 mm	200686	600 mm	■	300,77 €	NC	1
400251MNP80	11	1" x EUROK	80 mm	200186	700 mm	■	328,74 €	NC	1
400252MNP80	12	1" x EUROK	80 mm	200186	700 mm	■	356,62 €	NC	1
400253MNP80	13	1" x EUROK	80 mm	200786	800 mm	■	384,56 €	NC	1
400242MN	2	1" x EUROK	110 mm	200086	500 mm	■	77,60 €	NC	1
400243MN	3	1" x EUROK	110 mm	200086	500 mm	■	105,51 €	NC	1
400244MN	4	1" x EUROK	110 mm	200086	500 mm	■	133,44 €	NC	1
400245MN	5	1" x EUROK	110 mm	200086	500 mm	■	161,31 €	NC	1
400246MN	6	1" x EUROK	110 mm	200086	500 mm	■	189,25 €	NC	1
400247MN	7	1" x EUROK	110 mm	200086	500 mm	■	217,16 €	NC	1
400248MN	8	1" x EUROK	110 mm	200086	500 mm	■	245,03 €	NC	1
400249MN	9	1" x EUROK	110 mm	200686	600 mm	■	272,94 €	NC	1
400250MN	10	1" x EUROK	110 mm	200686	600 mm	■	300,77 €	NC	1
400251MN	11	1" x EUROK	110 mm	200186	700 mm	■	328,74 €	NC	1
400252MN	12	1" x EUROK	110 mm	200186	700 mm	■	356,62 €	NC	1
400253MN	13	1" x EUROK	110 mm	200786	800 mm	■	384,56 €	NC	1
400282MN	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	91,31 €	NC	1
400283MN	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	125,03 €	NC	1
400284MN	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	158,88 €	NC	1
400285MN	5	1"1/4 x EUROK	110 mm	200086	500 mm	■	192,62 €	NC	1
400286MN	6	1"1/4 x EUROK	110 mm	200086	500 mm	■	226,49 €	NC	1
400287MN	7	1"1/4 x EUROK	110 mm	200086	500 mm	■	260,22 €	NC	1
400288MN	8	1"1/4 x EUROK	110 mm	200086	500 mm	■	294,11 €	NC	1
400289MN	9	1"1/4 x EUROK	110 mm	200686	600 mm	■	327,83 €	NC	1
400290MN	10	1"1/4 x EUROK	110 mm	200686	600 mm	■	361,59 €	NC	1
400291MN	11	1"1/4 x EUROK	110 mm	200186	700 mm	■	395,40 €	NC	1
400292MN	12	1"1/4 x EUROK	110 mm	200186	700 mm	■	429,17 €	NC	1
400293MN	13	1"1/4 x EUROK	110 mm	200786	800 mm	■	462,90 €	NC	1



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**CI 594 MN**


- **Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, attacchi supplementari per valvole di carico/scarico e valvole di sfiato aria, attacchi EUROK.**
- **Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets, additional connections for filling/drainage valves and air vent valves, EUROK connections.**
- **Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, embouts supplémentaires pour robinets de remplissage/vidange et purgeurs d'air, embouts EUROK.**
- **Bausatz besteht aus Zulaufverteiler mit doppelfeinvorein Stellbarenausgleichoberteile, Rücklaufverteiler mit Absperbarenventilen mit manueller Hebel, Haltebügel, zusätzliche Anschlüsse für Lade-/Entladeventile und Entlüftungsventile, EUROK Anschließen.**
- **Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, conexiones adicionales para válvulas para la carga/descarga y válvulas de purga de aire, conexiones EUROK.**



Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
500922MNP80	2	1" x EUROK	80 mm	200086	500 mm	■	89,87 €	NC	1
500923MNP80	3	1" x EUROK	80 mm	200086	500 mm	■	117,77 €	NC	1
500924MNP80	4	1" x EUROK	80 mm	200086	500 mm	■	145,72 €	NC	1
500925MNP80	5	1" x EUROK	80 mm	200086	500 mm	■	173,56 €	NC	1
500926MNP80	6	1" x EUROK	80 mm	200086	500 mm	■	201,51 €	NC	1
500927MNP80	7	1" x EUROK	80 mm	200086	500 mm	■	229,40 €	NC	1
500928MNP80	8	1" x EUROK	80 mm	200086	500 mm	■	257,31 €	NC	1
500929MNP80	9	1" x EUROK	80 mm	200686	600 mm	■	285,22 €	NC	1
500930MNP80	10	1" x EUROK	80 mm	200686	600 mm	■	313,04 €	NC	1
500931MNP80	11	1" x EUROK	80 mm	200186	700 mm	■	341,00 €	NC	1
500932MNP80	12	1" x EUROK	80 mm	200186	700 mm	■	368,90 €	NC	1
500922MN	2	1" x EUROK	110 mm	200086	500 mm	■	89,87 €	NC	1
500923MN	3	1" x EUROK	110 mm	200086	500 mm	■	117,77 €	NC	1
500924MN	4	1" x EUROK	110 mm	200086	500 mm	■	145,72 €	NC	1
500925MN	5	1" x EUROK	110 mm	200086	500 mm	■	173,56 €	NC	1
500926MN	6	1" x EUROK	110 mm	200086	500 mm	■	201,51 €	NC	1
500927MN	7	1" x EUROK	110 mm	200086	500 mm	■	229,40 €	NC	1
500928MN	8	1" x EUROK	110 mm	200086	500 mm	■	257,31 €	NC	1
500929MN	9	1" x EUROK	110 mm	200686	600 mm	■	285,22 €	NC	1
500930MN	10	1" x EUROK	110 mm	200686	600 mm	■	313,04 €	NC	1
500931MN	11	1" x EUROK	110 mm	200186	700 mm	■	341,00 €	NC	1
500932MN	12	1" x EUROK	110 mm	200186	700 mm	■	368,90 €	NC	1
400342MN	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	108,45 €	NC	1
400343MN	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	142,18 €	NC	1
400344MN	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	176,05 €	NC	1
400345MN	5	1"1/4 x EUROK	110 mm	200086	500 mm	■	209,79 €	NC	1
400346MN	6	1"1/4 x EUROK	110 mm	200086	500 mm	■	243,67 €	NC	1
400347MN	7	1"1/4 x EUROK	110 mm	200086	500 mm	■	277,40 €	NC	1
400348MN	8	1"1/4 x EUROK	110 mm	200086	500 mm	■	311,28 €	NC	1
400349MN	9	1"1/4 x EUROK	110 mm	200686	600 mm	■	344,97 €	NC	1
400350MN	10	1"1/4 x EUROK	110 mm	200686	600 mm	■	378,73 €	NC	1
400351MN	11	1"1/4 x EUROK	110 mm	200186	700 mm	■	412,57 €	NC	1
400352MN	12	1"1/4 x EUROK	110 mm	200186	700 mm	■	446,35 €	NC	1



- **Cassetta non inclusa >>p. 238,585**
- **Cabinet not included >>p. 238,585**
- **Cassette pas inclus >>p. 238,585**
- **Kasten nicht enthalten >>p. 238,585**
- **Caja no incluida >>p. 238,585**



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- **Gelbe Ausführung verfügbar. Dieselbe o.g. Bestellnummer aber bitte „N“ am Ende weglassen (Preis auf Anfrage).**
- **Puede pedir este artículo en la versión amarilla con el mismo código, pero sin la „N“ al final (precio disponible bajo petición).**

### ■ CI 595 CN



0-2.5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattabile, staffe e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatisable, étriers et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbarentilen mit Schutzkappe für Thermostat-Regulivorrichtung, Haltebügel und EUROK Anschließen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con tapa de protección para tornillo termostattizable, abrazaderas y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
500082CNP80	2	1" x EUROK	80 mm	200086	500 mm	■	95,99 €	NE	1
500083CNP80	3	1" x EUROK	80 mm	200086	500 mm	■	134,02 €	NE	1
500084CNP80	4	1" x EUROK	80 mm	200086	500 mm	■	171,68 €	NE	1
500085CNP80	5	1" x EUROK	80 mm	200086	500 mm	■	209,63 €	NE	1
500086CNP80	6	1" x EUROK	80 mm	200086	500 mm	■	247,59 €	NE	1
500087CNP80	7	1" x EUROK	80 mm	200086	500 mm	■	285,47 €	NE	1
500088CNP80	8	1" x EUROK	80 mm	200086	500 mm	■	323,42 €	NE	1
500089CNP80	9	1" x EUROK	80 mm	200686	600 mm	■	361,60 €	NE	1
500090CNP80	10	1" x EUROK	80 mm	200686	600 mm	■	398,24 €	NE	1
500091CNP80	11	1" x EUROK	80 mm	200186	700 mm	■	437,61 €	NE	1
500092CNP80	12	1" x EUROK	80 mm	200186	700 mm	■	475,17 €	NE	1
500093CNP80	13	1" x EUROK	80 mm	200786	800 mm	■	515,23 €	NE	1
500082CN	2	1" x EUROK	110 mm	200086	500 mm	■	95,99 €	NE	1
500083CN	3	1" x EUROK	110 mm	200086	500 mm	■	134,02 €	NE	1
500084CN	4	1" x EUROK	110 mm	200086	500 mm	■	171,68 €	NE	1
500085CN	5	1" x EUROK	110 mm	200086	500 mm	■	209,63 €	NE	1
500086CN	6	1" x EUROK	110 mm	200086	500 mm	■	247,59 €	NE	1
500087CN	7	1" x EUROK	110 mm	200086	500 mm	■	285,47 €	NE	1
500088CN	8	1" x EUROK	110 mm	200086	500 mm	■	323,42 €	NE	1
500089CN	9	1" x EUROK	110 mm	200686	600 mm	■	361,60 €	NE	1
500090CN	10	1" x EUROK	110 mm	200686	600 mm	■	398,24 €	NE	1
500091CN	11	1" x EUROK	110 mm	200186	700 mm	■	437,61 €	NE	1
500092CN	12	1" x EUROK	110 mm	200186	700 mm	■	475,17 €	NE	1
500093CN	13	1" x EUROK	110 mm	200786	800 mm	■	515,23 €	NE	1
502142CN	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	106,99 €	NE	1
502143CN	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	149,32 €	NE	1
502144CN	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	191,80 €	NE	1
502145CN	5	1"1/4 x EUROK	110 mm	200086	500 mm	■	234,13 €	NE	1
502146CN	6	1"1/4 x EUROK	110 mm	200086	500 mm	■	276,56 €	NE	1
502147CN	7	1"1/4 x EUROK	110 mm	200086	500 mm	■	319,01 €	NE	1
502148CN	8	1"1/4 x EUROK	110 mm	200086	500 mm	■	361,38 €	NE	1
502149CN	9	1"1/4 x EUROK	110 mm	200686	600 mm	■	403,74 €	NE	1
502150CN	10	1"1/4 x EUROK	110 mm	200686	600 mm	■	446,08 €	NE	1
502151CN	11	1"1/4 x EUROK	110 mm	200186	700 mm	■	488,56 €	NE	1
502152CN	12	1"1/4 x EUROK	110 mm	200186	700 mm	■	530,88 €	NE	1
502153CN	13	1"1/4 x EUROK	110 mm	200786	800 mm	■	573,33 €	NE	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585



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**CI 596 CN**


0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattabile, staffe, attacchi supplementari per valvole di carico/scarico e valvole di sfiato aria, attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets, additional connections for filling/drainage valves and air vent valves, EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatisable, étriers, embouts supplémentaires pour robinets de remplissage/vidange et purgeurs d'air, embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbarentventilen mit Schutzkappe für Thermostat-Regulievorrichtung, Haltebügel, zusätzliche Anschlüsse für Lade-/Entladeventile und Entlüftungsventile, EUROK Anschlüsse.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con tapa de protección para tornillo termostattizable, abrazaderas, conexiones adicionales para válvulas para la carga/descarga y válvulas de purga de aire, conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
502252CNP80	2	1" x EUROK	80 mm	200086	500 mm	■	112,16 €	NE	1
502253CNP80	3	1" x EUROK	80 mm	200086	500 mm	■	150,20 €	NE	1
502254CNP80	4	1" x EUROK	80 mm	200086	500 mm	■	187,85 €	NE	1
502255CNP80	5	1" x EUROK	80 mm	200086	500 mm	■	225,81 €	NE	1
502256CNP80	6	1" x EUROK	80 mm	200086	500 mm	■	263,76 €	NE	1
502257CNP80	7	1" x EUROK	80 mm	200086	500 mm	■	301,64 €	NE	1
502258CNP80	8	1" x EUROK	80 mm	200086	500 mm	■	339,59 €	NE	1
502259CNP80	9	1" x EUROK	80 mm	200686	600 mm	■	377,81 €	NE	1
502260CNP80	10	1" x EUROK	80 mm	200686	600 mm	■	414,44 €	NE	1
502261CNP80	11	1" x EUROK	80 mm	200186	700 mm	■	453,79 €	NE	1
502262CNP80	12	1" x EUROK	80 mm	200186	700 mm	■	491,33 €	NE	1
502252CN	2	1" x EUROK	110 mm	200086	500 mm	■	112,16 €	NE	1
502253CN	3	1" x EUROK	110 mm	200086	500 mm	■	150,20 €	NE	1
502254CN	4	1" x EUROK	110 mm	200086	500 mm	■	187,85 €	NE	1
502255CN	5	1" x EUROK	110 mm	200086	500 mm	■	225,81 €	NE	1
502256CN	6	1" x EUROK	110 mm	200086	500 mm	■	263,76 €	NE	1
502257CN	7	1" x EUROK	110 mm	200086	500 mm	■	301,64 €	NE	1
502258CN	8	1" x EUROK	110 mm	200086	500 mm	■	339,59 €	NE	1
502259CN	9	1" x EUROK	110 mm	200686	600 mm	■	377,81 €	NE	1
502260CN	10	1" x EUROK	110 mm	200686	600 mm	■	414,44 €	NE	1
502261CN	11	1" x EUROK	110 mm	200186	700 mm	■	453,79 €	NE	1
502262CN	12	1" x EUROK	110 mm	200186	700 mm	■	491,33 €	NE	1
502272CN	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	123,20 €	NE	1
502273CN	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	165,53 €	NE	1
502274CN	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	208,00 €	NE	1
502275CN	5	1"1/4 x EUROK	110 mm	200086	500 mm	■	250,34 €	NE	1
502276CN	6	1"1/4 x EUROK	110 mm	200086	500 mm	■	292,74 €	NE	1
502277CN	7	1"1/4 x EUROK	110 mm	200086	500 mm	■	335,18 €	NE	1
502278CN	8	1"1/4 x EUROK	110 mm	200086	500 mm	■	377,55 €	NE	1
502279CN	9	1"1/4 x EUROK	110 mm	200686	600 mm	■	419,91 €	NE	1
502280CN	10	1"1/4 x EUROK	110 mm	200686	600 mm	■	462,24 €	NE	1
502281CN	11	1"1/4 x EUROK	110 mm	200186	700 mm	■	504,73 €	NE	1
502282CN	12	1"1/4 x EUROK	110 mm	200186	700 mm	■	547,06 €	NE	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Cassette pas inclus >>p. 238,585
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- Caja no incluida >>p. 238,585



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## CI 595 MN



0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione a manovra manuale, staffe e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with manually operated isolation valves, brackets and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbarentilen mit manueller Hebel, Haltebügel und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con cabeza manual, abrazaderas y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
500082MNP80	2	1" x EUROK	80 mm	200086	500 mm	■	97,08 €	NE	1
500083MNP80	3	1" x EUROK	80 mm	200086	500 mm	■	135,72 €	NE	1
500084MNP80	4	1" x EUROK	80 mm	200086	500 mm	■	173,96 €	NE	1
500085MNP80	5	1" x EUROK	80 mm	200086	500 mm	■	212,42 €	NE	1
500086MNP80	6	1" x EUROK	80 mm	200086	500 mm	■	250,96 €	NE	1
500087MNP80	7	1" x EUROK	80 mm	200086	500 mm	■	289,38 €	NE	1
500088MNP80	8	1" x EUROK	80 mm	200086	500 mm	■	327,84 €	NE	1
500089MNP80	9	1" x EUROK	80 mm	200686	600 mm	■	366,61 €	NE	1
500090MNP80	10	1" x EUROK	80 mm	200686	600 mm	■	403,78 €	NE	1
500091MNP80	11	1" x EUROK	80 mm	200186	700 mm	■	443,76 €	NE	1
500092MNP80	12	1" x EUROK	80 mm	200186	700 mm	■	481,85 €	NE	1
500093MNP80	13	1" x EUROK	80 mm	200786	800 mm	■	522,46 €	NE	1
500082MN	2	1" x EUROK	110 mm	200086	500 mm	■	97,08 €	NE	1
500083MN	3	1" x EUROK	110 mm	200086	500 mm	■	135,72 €	NE	1
500084MN	4	1" x EUROK	110 mm	200086	500 mm	■	173,96 €	NE	1
500085MN	5	1" x EUROK	110 mm	200086	500 mm	■	212,42 €	NE	1
500086MN	6	1" x EUROK	110 mm	200086	500 mm	■	250,96 €	NE	1
500087MN	7	1" x EUROK	110 mm	200086	500 mm	■	289,38 €	NE	1
500088MN	8	1" x EUROK	110 mm	200086	500 mm	■	327,84 €	NE	1
500089MN	9	1" x EUROK	110 mm	200686	600 mm	■	366,61 €	NE	1
500090MN	10	1" x EUROK	110 mm	200686	600 mm	■	403,78 €	NE	1
500091MN	11	1" x EUROK	110 mm	200186	700 mm	■	443,76 €	NE	1
500092MN	12	1" x EUROK	110 mm	200186	700 mm	■	481,85 €	NE	1
500093MN	13	1" x EUROK	110 mm	200786	800 mm	■	522,46 €	NE	1
502142MN	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	108,08 €	NE	1
502143MN	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	150,90 €	NE	1
502144MN	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	193,93 €	NE	1
502145MN	5	1"1/4 x EUROK	110 mm	200086	500 mm	■	236,81 €	NE	1
502146MN	6	1"1/4 x EUROK	110 mm	200086	500 mm	■	279,75 €	NE	1
502147MN	7	1"1/4 x EUROK	110 mm	200086	500 mm	■	322,70 €	NE	1
502148MN	8	1"1/4 x EUROK	110 mm	200086	500 mm	■	365,61 €	NE	1
502149MN	9	1"1/4 x EUROK	110 mm	200686	600 mm	■	408,52 €	NE	1
502150MN	10	1"1/4 x EUROK	110 mm	200686	600 mm	■	451,36 €	NE	1
502151MN	11	1"1/4 x EUROK	110 mm	200186	700 mm	■	494,37 €	NE	1
502152MN	12	1"1/4 x EUROK	110 mm	200186	700 mm	■	537,25 €	NE	1
502153MN	13	1"1/4 x EUROK	110 mm	200786	800 mm	■	580,20 €	NE	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585



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**CI 596 MN**


0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, attacchi supplementari per valvole di carico/scarico e valvole di sfiato aria, attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with manually operated isolation valves, brackets, additional connections for filling/drainage valves and air vent valves, EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, embouts supplémentaires pour robinets de remplissage/vidange et purgeurs d'air, embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, zusätzliche Anschlüsse für Lade-/Entladeventile und Entlüftungsventile, EUROK Anschlüsse.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, conexiones adicionales para válvulas para la carga/descarga y válvulas de purga de aire, conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
502252MNP80	2	1" x EUROK	80 mm	200086	500 mm	■	113,28 €	NE	1
502253MNP80	3	1" x EUROK	80 mm	200086	500 mm	■	151,90 €	NE	1
502254MNP80	4	1" x EUROK	80 mm	200086	500 mm	■	190,13 €	NE	1
502255MNP80	5	1" x EUROK	80 mm	200086	500 mm	■	228,58 €	NE	1
502256MNP80	6	1" x EUROK	80 mm	200086	500 mm	■	267,13 €	NE	1
502257MNP80	7	1" x EUROK	80 mm	200086	500 mm	■	305,55 €	NE	1
502258MNP80	8	1" x EUROK	80 mm	200086	500 mm	■	344,05 €	NE	1
502259MNP80	9	1" x EUROK	80 mm	200686	600 mm	■	382,79 €	NE	1
502260MNP80	10	1" x EUROK	80 mm	200686	600 mm	■	420,00 €	NE	1
502261MNP80	11	1" x EUROK	80 mm	200186	700 mm	■	459,93 €	NE	1
502262MNP80	12	1" x EUROK	80 mm	200186	700 mm	■	498,03 €	NE	1
502252MN	2	1" x EUROK	110 mm	200086	500 mm	■	113,28 €	NE	1
502253MN	3	1" x EUROK	110 mm	200086	500 mm	■	151,90 €	NE	1
502254MN	4	1" x EUROK	110 mm	200086	500 mm	■	190,13 €	NE	1
502255MN	5	1" x EUROK	110 mm	200086	500 mm	■	228,58 €	NE	1
502256MN	6	1" x EUROK	110 mm	200086	500 mm	■	267,13 €	NE	1
502257MN	7	1" x EUROK	110 mm	200086	500 mm	■	305,55 €	NE	1
502258MN	8	1" x EUROK	110 mm	200086	500 mm	■	344,05 €	NE	1
502259MN	9	1" x EUROK	110 mm	200686	600 mm	■	382,79 €	NE	1
502260MN	10	1" x EUROK	110 mm	200686	600 mm	■	420,00 €	NE	1
502261MN	11	1" x EUROK	110 mm	200186	700 mm	■	459,93 €	NE	1
502262MN	12	1" x EUROK	110 mm	200186	700 mm	■	498,03 €	NE	1
502272MN	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	124,24 €	NE	1
502273MN	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	167,12 €	NE	1
502274MN	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	210,09 €	NE	1
502275MN	5	1"1/4 x EUROK	110 mm	200086	500 mm	■	252,97 €	NE	1
502276MN	6	1"1/4 x EUROK	110 mm	200086	500 mm	■	295,92 €	NE	1
502277MN	7	1"1/4 x EUROK	110 mm	200086	500 mm	■	338,88 €	NE	1
502278MN	8	1"1/4 x EUROK	110 mm	200086	500 mm	■	381,79 €	NE	1
502279MN	9	1"1/4 x EUROK	110 mm	200686	600 mm	■	424,69 €	NE	1
502280MN	10	1"1/4 x EUROK	110 mm	200686	600 mm	■	467,61 €	NE	1
502281MN	11	1"1/4 x EUROK	110 mm	200186	700 mm	■	510,52 €	NE	1
502282MN	12	1"1/4 x EUROK	110 mm	200186	700 mm	■	553,43 €	NE	1



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- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585



- È possibile ordinare questo articolo in versione gialla utilizzando il medesimo codice, ma omettendo la "N" finale (prezzo su richiesta).
- It is possible to order this item in yellow version; please use the same reference code without the "N" at the end (price on request).
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- Gelbe Ausführung verfügbar. Dieselbe o.g. Bestellnummer aber bitte „N“ am Ende weglassen (Preis auf Anfrage).
- Puede pedir este artículo en la versión amarilla con el mismo código, pero sin la „N“ al final (precio disponible bajo petición).

### KC 01 KC (1")



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, terminali, valvole di carico/scarico, valvole di sfiato aria e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit doppelfeinvorein Stellbareausgleicherteile, Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
507162KC	2	1" x EUROK	80 mm	200086	500 mm	■	121,08 €	N3	1
507163KC	3	1" x EUROK	80 mm	200086	500 mm	■	147,59 €	N3	1
507164KC	4	1" x EUROK	80 mm	200086	500 mm	■	174,11 €	N3	1
507165KC	5	1" x EUROK	80 mm	200686	600 mm	■	200,57 €	N3	1
507166KC	6	1" x EUROK	80 mm	200686	600 mm	■	227,10 €	N3	1
507167KC	7	1" x EUROK	80 mm	200186	700 mm	■	253,60 €	N3	1
507168KC	8	1" x EUROK	80 mm	200186	700 mm	■	280,06 €	N3	1
507169KC	9	1" x EUROK	80 mm	200786	800 mm	■	306,56 €	N3	1
507170KC	10	1" x EUROK	80 mm	200786	800 mm	■	332,98 €	N3	1
507171KC	11	1" x EUROK	80 mm	200286	900 mm	■	359,54 €	N3	1
507172KC	12	1" x EUROK	80 mm	200286	900 mm	■	386,01 €	N3	1
507173KC	13	1" x EUROK	80 mm	200886	1000 mm	■	412,55 €	N3	1

### KC 01 KC (1 1/4")



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole di carico/scarico, valvole di sfiato aria, tappi e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets, filling/drainage valves, air vent valves, plugs and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit doppelfeinvorein Stellbareausgleicherteile, Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas para la carga/ descarga, válvulas de purga de aire, tapones y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
508162KC	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	125,16 €	N3	1
508163KC	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	157,19 €	N3	1
508164KC	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	189,35 €	N3	1
508165KC	5	1"1/4 x EUROK	110 mm	200686	600 mm	■	221,38 €	N3	1
508166KC	6	1"1/4 x EUROK	110 mm	200686	600 mm	■	253,55 €	N3	1
508167KC	7	1"1/4 x EUROK	110 mm	200186	700 mm	■	285,58 €	N3	1
508168KC	8	1"1/4 x EUROK	110 mm	200186	700 mm	■	317,74 €	N3	1
508169KC	9	1"1/4 x EUROK	110 mm	200786	800 mm	■	349,74 €	N3	1
508170KC	10	1"1/4 x EUROK	110 mm	200786	800 mm	■	381,80 €	N3	1
508171KC	11	1"1/4 x EUROK	110 mm	200286	900 mm	■	413,92 €	N3	1
508172KC	12	1"1/4 x EUROK	110 mm	200286	900 mm	■	446,00 €	N3	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

**KC 02 KC (1")**


0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, terminali, valvole di carico/scarico, valvole di sfiato aria e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with manually operated isolation valves, brackets, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbarentilen mit manueller Hebel, Haltebügel, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
507182KC	2	1" x EUROK	80 mm	200086	500 mm	■	141,32 €	N3	1
507183KC	3	1" x EUROK	80 mm	200086	500 mm	■	178,70 €	N3	1
507184KC	4	1" x EUROK	80 mm	200086	500 mm	■	215,70 €	N3	1
507185KC	5	1" x EUROK	80 mm	200686	600 mm	■	252,89 €	N3	1
507186KC	6	1" x EUROK	80 mm	200686	600 mm	■	290,18 €	N3	1
507187KC	7	1" x EUROK	80 mm	200186	700 mm	■	327,36 €	N3	1
507188KC	8	1" x EUROK	80 mm	200186	700 mm	■	364,56 €	N3	1
507189KC	9	1" x EUROK	80 mm	200786	800 mm	■	402,07 €	N3	1
507190KC	10	1" x EUROK	80 mm	200786	800 mm	■	438,02 €	N3	1
507191KC	11	1" x EUROK	80 mm	200286	900 mm	■	476,70 €	N3	1
507192KC	12	1" x EUROK	80 mm	200286	900 mm	■	513,55 €	N3	1
507193KC	13	1" x EUROK	80 mm	200886	1000 mm	■	552,84 €	N3	1

**KC 02 KC (1 1/4")**


0-2,5 l/min ON REQUEST

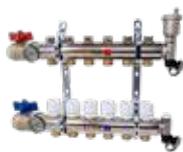
- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole di carico/scarico, valvole di sfiato aria, tappi e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with manually operated isolation valves, brackets, filling/drainage valves, air vent valves, plugs and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbarentilen mit manueller Hebel, Haltebügel, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas para la carga/ descarga, válvulas de purga de aire, tapones y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
508182KC	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	142,38 €	N3	1
508183KC	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	183,87 €	N3	1
508184KC	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	225,44 €	N3	1
508185KC	5	1"1/4 x EUROK	110 mm	200686	600 mm	■	266,91 €	N3	1
508186KC	6	1"1/4 x EUROK	110 mm	200686	600 mm	■	308,47 €	N3	1
508187KC	7	1"1/4 x EUROK	110 mm	200186	700 mm	■	350,02 €	N3	1
508188KC	8	1"1/4 x EUROK	110 mm	200186	700 mm	■	391,53 €	N3	1
508189KC	9	1"1/4 x EUROK	110 mm	200786	800 mm	■	433,04 €	N3	1
508190KC	10	1"1/4 x EUROK	110 mm	200786	800 mm	■	474,57 €	N3	1
508191KC	11	1"1/4 x EUROK	110 mm	200286	900 mm	■	516,07 €	N3	1
508192KC	12	1"1/4 x EUROK	110 mm	200286	900 mm	■	557,58 €	N3	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

### KC 01 A (1")



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole a sfera diritte con bocchettone, termometri, terminali, valvole di carico/scarico, valvole di sfianto aria e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets, straight ball valves with fitting, thermometers, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, vannes à bille droites avec raccord, thermomètres, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbareausgleichoberteile, Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Durchgangs-Kugelventilen mit Verschraubung, Thermometer, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas de bola rectas con manguito de unión, termómetros, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
507162AIV	2	1" x EUROK	80 mm	200086	500 mm	■	198,63 €	N3	1
507163AIV	3	1" x EUROK	80 mm	200086	500 mm	■	225,13 €	N3	1
507164AIV	4	1" x EUROK	80 mm	200086	500 mm	■	251,67 €	N3	1
507165AIV	5	1" x EUROK	80 mm	200686	600 mm	■	278,12 €	N3	1
507166AIV	6	1" x EUROK	80 mm	200686	600 mm	■	304,65 €	N3	1
507167AIV	7	1" x EUROK	80 mm	200186	700 mm	■	331,15 €	N3	1
507168AIV	8	1" x EUROK	80 mm	200186	700 mm	■	357,62 €	N3	1
507169AIV	9	1" x EUROK	80 mm	200786	800 mm	■	384,11 €	N3	1
507170AIV	10	1" x EUROK	80 mm	200786	800 mm	■	410,54 €	N3	1
507171AIV	11	1" x EUROK	80 mm	200286	900 mm	■	437,10 €	N3	1
507172AIV	12	1" x EUROK	80 mm	200286	900 mm	■	463,56 €	N3	1
507173AIV	13	1" x EUROK	80 mm	200886	1000 mm	■	490,09 €	N3	1

### KC 01 A (1"1/4)



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole a sfera diritte con bocchettone, termometri, valvole di carico/scarico, valvole di sfianto aria, tappi e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets, straight ball valves with fitting, thermometers, filling/drainage valves, air vent valves, plugs and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, vannes à bille droites avec raccord, thermomètres, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbareausgleichoberteile, Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Durchgangs-Kugelventilen mit Verschraubung, Thermometer, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas de bola rectas con manguito de unión, termómetros, válvulas para la carga/descarga, válvulas de purga de aire, tapones y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
508162AIV	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	238,75 €	N3	1
508163AIV	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	270,78 €	N3	1
508164AIV	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	302,94 €	N3	1
508165AIV	5	1"1/4 x EUROK	110 mm	200686	600 mm	■	334,96 €	N3	1
508166AIV	6	1"1/4 x EUROK	110 mm	200686	600 mm	■	367,14 €	N3	1
508167AIV	7	1"1/4 x EUROK	110 mm	200186	700 mm	■	399,17 €	N3	1
508168AIV	8	1"1/4 x EUROK	110 mm	200186	700 mm	■	431,33 €	N3	1
508169AIV	9	1"1/4 x EUROK	110 mm	200786	800 mm	■	463,32 €	N3	1
508170AIV	10	1"1/4 x EUROK	110 mm	200786	800 mm	■	495,38 €	N3	1
508171AIV	11	1"1/4 x EUROK	110 mm	200286	900 mm	■	527,52 €	N3	1
508172AIV	12	1"1/4 x EUROK	110 mm	200286	900 mm	■	559,59 €	N3	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

**KC 02 A (1")**


0-2.5 l/min ON REQUEST

- **Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole a sfera diritte con bocchettone, termometri, terminali, valvole di carico/scarico, valvole di sfianto aria e attacchi EUROK.**
- **Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with manually operated isolation valves, brackets, straight ball valves with fitting, thermometers, terminals, filling/drainage valves, air vent valves and EUROK connections.**
- **Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, vannes à bille droites avec raccord, thermomètres, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.**
- **Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Durchgangs-Kugelventilen mit Verschraubung, Thermometer, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.**
- **Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas de bola rectas con manguito de unión, termómetros, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.**

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
507182AIV	2	1" x EUROK	80 mm	200086	500 mm	■	218,86 €	N3	1
507183AIV	3	1" x EUROK	80 mm	200086	500 mm	■	256,25 €	N3	1
507184AIV	4	1" x EUROK	80 mm	200086	500 mm	■	293,25 €	N3	1
507185AIV	5	1" x EUROK	80 mm	200686	600 mm	■	330,45 €	N3	1
507186AIV	6	1" x EUROK	80 mm	200686	600 mm	■	367,74 €	N3	1
507187AIV	7	1" x EUROK	80 mm	200186	700 mm	■	404,91 €	N3	1
507188AIV	8	1" x EUROK	80 mm	200186	700 mm	■	442,12 €	N3	1
507189AIV	9	1" x EUROK	80 mm	200786	800 mm	■	479,63 €	N3	1
507190AIV	10	1" x EUROK	80 mm	200786	800 mm	■	515,57 €	N3	1
507191AIV	11	1" x EUROK	80 mm	200286	900 mm	■	554,26 €	N3	1
507192AIV	12	1" x EUROK	80 mm	200286	900 mm	■	591,11 €	N3	1
507193AIV	13	1" x EUROK	80 mm	200886	1000 mm	■	630,40 €	N3	1

**KC 02 A (1"1/4)**


0-2.5 l/min ON REQUEST

- **Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole a sfera diritte con bocchettone, termometri, valvole di carico/scarico, valvole di sfianto aria, tappi e attacchi EUROK.**
- **Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with manually operated isolation valves, brackets, straight ball valves with fitting, thermometers, filling/drainage valves, air vent valves, plugs and EUROK connections.**
- **Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, vannes à bille droites avec raccord, thermomètres, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts EUROK.**
- **Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Durchgangs-Kugelventilen mit Verschraubung, Thermometer, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und EUROK Anschlüssen.**
- **Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas de bola rectas con manguito de unión, termómetros, válvulas para la carga/descarga, válvulas de purga de aire, tapones y conexiones EUROK.**

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
508182AIV	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	255,96 €	N3	1
508183AIV	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	297,45 €	N3	1
508184AIV	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	339,03 €	N3	1
508185AIV	5	1"1/4 x EUROK	110 mm	200686	600 mm	■	380,51 €	N3	1
508186AIV	6	1"1/4 x EUROK	110 mm	200686	600 mm	■	422,05 €	N3	1
508187AIV	7	1"1/4 x EUROK	110 mm	200186	700 mm	■	463,61 €	N3	1
508188AIV	8	1"1/4 x EUROK	110 mm	200186	700 mm	■	505,12 €	N3	1
508189AIV	9	1"1/4 x EUROK	110 mm	200786	800 mm	■	546,63 €	N3	1
508190AIV	10	1"1/4 x EUROK	110 mm	200786	800 mm	■	588,15 €	N3	1
508191AIV	11	1"1/4 x EUROK	110 mm	200286	900 mm	■	629,65 €	N3	1
508192AIV	12	1"1/4 x EUROK	110 mm	200286	900 mm	■	671,16 €	N3	1



- **Cassetta non inclusa >>p. 238,585**
- **Cabinet not included >>p. 238,585**
- **Cassette pas inclus >>p. 238,585**
- **Kasten nicht enthalten >>p. 238,585**
- **Caja no incluida >>p. 238,585**

### KC 01 AS (1")



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole a sfera a squadra con bocchettone, termometri, terminali, valvole di carico/scarico, valvole di sfioro aria e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets, square ball valves with fitting, thermometers, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, vannes à bille équerre avec raccord, thermomètres, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbarenausgleicherteile, Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Eck-Kugelventilen mit Verschraubung, Thermometer, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas de bola de escuadra con manguito de unión, termómetros, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
507162ASIV	2	1" x EUROK	80 mm	200086	500 mm	■	205,99 €	N3	1
507163ASIV	3	1" x EUROK	80 mm	200086	500 mm	■	232,48 €	N3	1
507164ASIV	4	1" x EUROK	80 mm	200086	500 mm	■	259,01 €	N3	1
507165ASIV	5	1" x EUROK	80 mm	200686	600 mm	■	285,47 €	N3	1
507166ASIV	6	1" x EUROK	80 mm	200686	600 mm	■	312,01 €	N3	1
507167ASIV	7	1" x EUROK	80 mm	200186	700 mm	■	338,51 €	N3	1
507168ASIV	8	1" x EUROK	80 mm	200186	700 mm	■	364,97 €	N3	1
507169ASIV	9	1" x EUROK	80 mm	200786	800 mm	■	391,47 €	N3	1
507170ASIV	10	1" x EUROK	80 mm	200786	800 mm	■	417,89 €	N3	1
507171ASIV	11	1" x EUROK	80 mm	200286	900 mm	■	444,45 €	N3	1
507172ASIV	12	1" x EUROK	80 mm	200286	900 mm	■	470,92 €	N3	1
507173ASIV	13	1" x EUROK	80 mm	200886	1000 mm	■	497,45 €	N3	1

### KC 01 AS (1"1/4)



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole a sfera a squadra con bocchettone, termometri, valvole di carico/scarico, valvole di sfioro aria, tappi e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets, square ball valves with fitting, thermometers, filling/drainage valves, air vent valves, plugs and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, vannes à bille équerre avec raccord, thermomètres, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbarenausgleicherteile, Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Eck-Kugelventilen mit Verschraubung, Thermometer, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas de bola de escuadra con manguito de unión, termómetros, válvulas para la carga/descarga, válvulas de purga de aire, tapones y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
508162ASIV	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	246,10 €	N3	1
508163ASIV	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	278,13 €	N3	1
508164ASIV	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	310,29 €	N3	1
508165ASIV	5	1"1/4 x EUROK	110 mm	200686	600 mm	■	342,32 €	N3	1
508166ASIV	6	1"1/4 x EUROK	110 mm	200686	600 mm	■	374,50 €	N3	1
508167ASIV	7	1"1/4 x EUROK	110 mm	200186	700 mm	■	406,52 €	N3	1
508168ASIV	8	1"1/4 x EUROK	110 mm	200186	700 mm	■	438,68 €	N3	1
508169ASIV	9	1"1/4 x EUROK	110 mm	200786	800 mm	■	470,68 €	N3	1
508170ASIV	10	1"1/4 x EUROK	110 mm	200786	800 mm	■	502,74 €	N3	1
508171ASIV	11	1"1/4 x EUROK	110 mm	200286	900 mm	■	534,86 €	N3	1
508172ASIV	12	1"1/4 x EUROK	110 mm	200286	900 mm	■	566,93 €	N3	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

**KC 02 AS (1")**


0-2.5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole a sfera a squadra con bocchettone, termometri, terminali, valvole di carico/scarico, valvole di sfio aria e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with manually operated isolation valves, brackets, square ball valves with fitting, thermometers, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, vannes à bille équerre avec raccord, thermomètres, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbarentilen mit manueller Hebel, Haltebügel, Eck-Kugelventilen mit Verschraubung, Thermometer, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas de bola de escuadra con manguito de unión, termómetros, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
507182ASIV	2	1" x EUROK	80 mm	200086	500 mm	■	226,22 €	N3	1
507183ASIV	3	1" x EUROK	80 mm	200086	500 mm	■	263,60 €	N3	1
507184ASIV	4	1" x EUROK	80 mm	200086	500 mm	■	300,60 €	N3	1
507185ASIV	5	1" x EUROK	80 mm	200686	600 mm	■	337,80 €	N3	1
507186ASIV	6	1" x EUROK	80 mm	200686	600 mm	■	375,08 €	N3	1
507187ASIV	7	1" x EUROK	80 mm	200186	700 mm	■	412,26 €	N3	1
507188ASIV	8	1" x EUROK	80 mm	200186	700 mm	■	449,46 €	N3	1
507189ASIV	9	1" x EUROK	80 mm	200786	800 mm	■	486,98 €	N3	1
507190ASIV	10	1" x EUROK	80 mm	200786	800 mm	■	522,93 €	N3	1
507191ASIV	11	1" x EUROK	80 mm	200286	900 mm	■	561,60 €	N3	1
507192ASIV	12	1" x EUROK	80 mm	200286	900 mm	■	598,46 €	N3	1
507193ASIV	13	1" x EUROK	80 mm	200886	1000 mm	■	637,74 €	N3	1

**KC 02 AS (1"1/4)**


0-2.5 l/min ON REQUEST

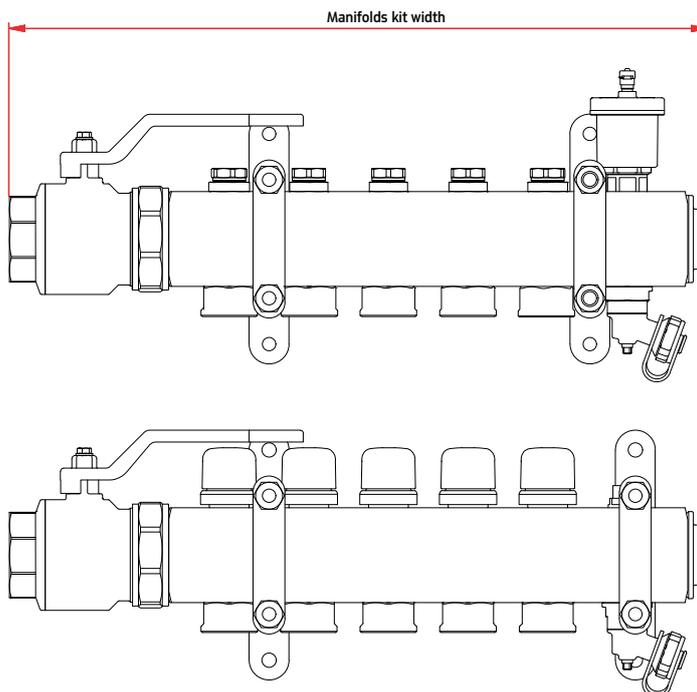
- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole a sfera a squadra con bocchettone, termometri, valvole di carico/scarico, valvole di sfio aria, tappi e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with manually operated isolation valves, brackets, square ball valves with fitting, thermometers, filling/drainage valves, air vent valves, plugs and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, vannes à bille équerre avec raccord, thermomètres, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbarentilen mit manueller Hebel, Haltebügel, Eck-Kugelventilen mit Verschraubung, Thermometer, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas de bola de escuadra con manguito de unión, termómetros, válvulas para la carga/descarga, válvulas de purga de aire, tapones y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
508182ASIV	2	1"1/4 x EUROK	110 mm	200086	500 mm	■	260,03 €	N3	1
508183ASIV	3	1"1/4 x EUROK	110 mm	200086	500 mm	■	301,51 €	N3	1
508184ASIV	4	1"1/4 x EUROK	110 mm	200086	500 mm	■	343,08 €	N3	1
508185ASIV	5	1"1/4 x EUROK	110 mm	200686	600 mm	■	384,56 €	N3	1
508186ASIV	6	1"1/4 x EUROK	110 mm	200686	600 mm	■	426,12 €	N3	1
508187ASIV	7	1"1/4 x EUROK	110 mm	200186	700 mm	■	467,67 €	N3	1
508188ASIV	8	1"1/4 x EUROK	110 mm	200186	700 mm	■	509,18 €	N3	1
508189ASIV	9	1"1/4 x EUROK	110 mm	200786	800 mm	■	550,68 €	N3	1
508190ASIV	10	1"1/4 x EUROK	110 mm	200786	800 mm	■	592,21 €	N3	1
508191ASIV	11	1"1/4 x EUROK	110 mm	200286	900 mm	■	633,72 €	N3	1
508192ASIV	12	1"1/4 x EUROK	110 mm	200286	900 mm	■	675,23 €	N3	1



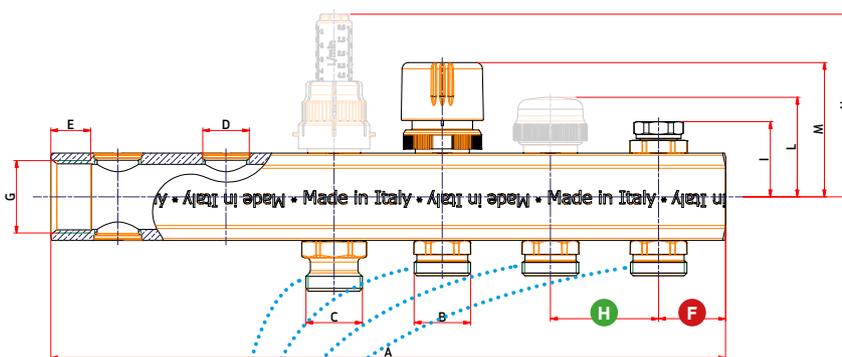
- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

### MANIFOLDS KIT WIDTH AND SUITABLE CABINET



Manifold ways	2	3	4	5	6	7	8	9	10	11	12
1"1/2 manifolds kit width	305 mm	355 mm	405 mm	455 mm	505 mm	555 mm	605 mm	655 mm	705 mm	755 mm	805 mm
Suitable cabinet	200089	200590	200590	200090	200090	200690	200690	200190	200190	200790	200790
Cabinet width	500 mm	600 mm	600 mm	700 mm	700 mm	800 mm	800 mm	900 mm	900 mm	1.000 mm	1.000 mm

### 1"1/2 SINGLE MANIFOLD DIMENSIONS



Size	1"1/2
A	$(WAYS - 1) \times H + (2 \times F)$
B	3/4" F
C	-
D	3/4" F
E	21 mm
F	38 mm
G	1"1/2
H	50 mm
I	45,5 mm
L	-
M	77 mm
N	-

Centre-to-centre distance

$$A = (WAYS - 1) \times H + (2 \times F)$$

Distance between centreline of last way and end of manifold

**CS 500 (1"1/2)**


- Collettore semplice.
- Plain manifold.
- Collecteur simple.
- Verteilerbalken.
- Colector simple.

Code	Ways	Size	Color	Price	Class	Packaging
560022	2	1"1/2 x 3/4" F		37,25 €	NA	1
560023	3	1"1/2 x 3/4" F		50,90 €	NA	1
560024	4	1"1/2 x 3/4" F		64,52 €	NA	1
560025	5	1"1/2 x 3/4" F		78,17 €	NA	1
560026	6	1"1/2 x 3/4" F		91,77 €	NA	1
560027	7	1"1/2 x 3/4" F		105,44 €	NA	1
560028	8	1"1/2 x 3/4" F		119,00 €	NA	1
560029	9	1"1/2 x 3/4" F		132,66 €	NA	1
560030	10	1"1/2 x 3/4" F		146,28 €	NA	1
560031	11	1"1/2 x 3/4" F		159,88 €	NA	1
560032	12	1"1/2 x 3/4" F		173,50 €	NA	1
560033	13	1"1/2 x 3/4" F		187,19 €	NA	1

**CS 501 (1"1/2)**


- Collettore semplice con attacco supplementare per valvola di sfiato aria.
- Plain manifold with additional connection for air vent valve.
- Collecteur simple avec embout supplémentaire pour purgeur d'air.
- Verteilerbalken mit zusätzliche Bohrung für Entlüftungsventil.
- Colector de distribución con conexión adicional para válvula de purga del aire.

Code	Ways	Size	Color	Price	Class	Packaging
560022S	2	1"1/2 x 3/4" F		37,25 €	NA	1
560023S	3	1"1/2 x 3/4" F		50,90 €	NA	1
560024S	4	1"1/2 x 3/4" F		64,52 €	NA	1
560025S	5	1"1/2 x 3/4" F		78,17 €	NA	1
560026S	6	1"1/2 x 3/4" F		91,77 €	NA	1
560027S	7	1"1/2 x 3/4" F		105,44 €	NA	1
560028S	8	1"1/2 x 3/4" F		119,00 €	NA	1
560029S	9	1"1/2 x 3/4" F		132,66 €	NA	1
560030S	10	1"1/2 x 3/4" F		146,28 €	NA	1
560031S	11	1"1/2 x 3/4" F		159,88 €	NA	1
560032S	12	1"1/2 x 3/4" F		173,50 €	NA	1
560033S	13	1"1/2 x 3/4" F		187,19 €	NA	1

### ■ CI 552 (1"1/2)



- Collettore di mandata con detentori a doppia regolazione micrometrica e attacchi 3/4" F.
- Flow manifold with micrometric dually adjusted lockshields and 3/4" F connections.
- Collecteur d'envoi avec inserts à double réglage micrométrique et embouts 3/4" F.
- Zulauffussbodenheizungsverteilerbalken mit doppefeinvoerein Stellbarenausgleichoberteile und 3/4" IG Anschließen.
- Colector de impulsión con detentores de doble regulación micrométrica y conexiones 3/4" F.

Code	Ways	Size	Color	Price	Class	Packaging
560002	2	1"1/2 x 3/4" F		53,94 €	NC	1
560003	3	1"1/2 x 3/4" F		75,83 €	NC	1
560004	4	1"1/2 x 3/4" F		97,65 €	NC	1
560005	5	1"1/2 x 3/4" F		119,55 €	NC	1
560006	6	1"1/2 x 3/4" F		141,45 €	NC	1
560007	7	1"1/2 x 3/4" F		163,31 €	NC	1
560008	8	1"1/2 x 3/4" F		185,21 €	NC	1
560009	9	1"1/2 x 3/4" F		207,03 €	NC	1
560010	10	1"1/2 x 3/4" F		228,93 €	NC	1
560011	11	1"1/2 x 3/4" F		250,74 €	NC	1
560012	12	1"1/2 x 3/4" F		272,65 €	NC	1
560013	13	1"1/2 x 3/4" F		294,54 €	NC	1

### ■ CI 553 (1"1/2)



- Collettore di mandata con detentori a doppia regolazione micrometrica, attacchi 3/4" F, attacchi supplementari per valvola di sfiato aria e valvola di carico/scarico.
- Flow manifold with micrometric dually adjusted lockshields, 3/4" F connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur d'envoi avec inserts à double réglage micrométrique, embouts 3/4" F, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Zulauffussbodenheizungsverteilerbalken mit doppefeinvoerein Stellbarenausgleichoberteile, 3/4" IG Anschließen und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de impulsión con detentores de doble regulación micrométrica, conexiones 3/4" F, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Color	Price	Class	Packaging
560002S	2	1"1/2 x 3/4" F		67,13 €	NC	1
560003S	3	1"1/2 x 3/4" F		89,02 €	NC	1
560004S	4	1"1/2 x 3/4" F		110,84 €	NC	1
560005S	5	1"1/2 x 3/4" F		132,74 €	NC	1
560006S	6	1"1/2 x 3/4" F		154,65 €	NC	1
560007S	7	1"1/2 x 3/4" F		176,47 €	NC	1
560008S	8	1"1/2 x 3/4" F		198,36 €	NC	1
560009S	9	1"1/2 x 3/4" F		220,22 €	NC	1
560010S	10	1"1/2 x 3/4" F		242,08 €	NC	1
560011S	11	1"1/2 x 3/4" F		263,94 €	NC	1
560012S	12	1"1/2 x 3/4" F		285,83 €	NC	1

**CI 554 C (1"1/2)**


- Collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattizzabile e attacchi 3/4" F.
- Return manifold with isolation valves with protection cap for thermostatic insert and 3/4" F connections.
- Collecteur de retour avec vannes d'interception avec capuchon de protection pour insert thermostatisable et embouts 3/4" F.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbarenventilen mit Schutzkappe für Thermostat-Reguliovorrichtung und 3/4" IG Anschlüssen.
- Colector de retorno con válvulas de cierre con tapa de protección para tornillo termostatzable y conexiones 3/4" F.

Code	Ways	Size	Color	Price	Class	Packaging
560042C	2	1"1/2 x 3/4" F		60,57 €	NC	1
560043C	3	1"1/2 x 3/4" F		86,03 €	NC	1
560044C	4	1"1/2 x 3/4" F		111,52 €	NC	1
560045C	5	1"1/2 x 3/4" F		136,99 €	NC	1
560046C	6	1"1/2 x 3/4" F		162,45 €	NC	1
560047C	7	1"1/2 x 3/4" F		187,93 €	NC	1
560048C	8	1"1/2 x 3/4" F		213,44 €	NC	1
560049C	9	1"1/2 x 3/4" F		238,91 €	NC	1
560050C	10	1"1/2 x 3/4" F		264,39 €	NC	1
560051C	11	1"1/2 x 3/4" F		289,86 €	NC	1
560052C	12	1"1/2 x 3/4" F		315,33 €	NC	1
560053C	13	1"1/2 x 3/4" F		340,80 €	NC	1

**CI 555 C (1"1/2)**


- Collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattizzabile, attacchi 3/4" F, attacchi supplementari per valvola di sfiato aria e valvola di carico/scarico.
- Return manifold with isolation valves with protection cap for thermostatic insert, 3/4" F connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur de retour avec vannes d'interception avec capuchon de protection pour insert thermostatisable, embouts 3/4" F, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbarenventilen mit Schutzkappe für Thermostat-Reguliovorrichtung, 3/4" IG Anschlüssen und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de retorno con válvulas de cierre con tapa de protección para tornillo termostatzable, conexiones 3/4" F, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Color	Price	Class	Packaging
560042SC	2	1"1/2 x 3/4" F		73,73 €	NC	1
560043SC	3	1"1/2 x 3/4" F		99,20 €	NC	1
560044SC	4	1"1/2 x 3/4" F		124,68 €	NC	1
560045SC	5	1"1/2 x 3/4" F		150,18 €	NC	1
560046SC	6	1"1/2 x 3/4" F		175,65 €	NC	1
560047SC	7	1"1/2 x 3/4" F		201,13 €	NC	1
560048SC	8	1"1/2 x 3/4" F		226,61 €	NC	1
560049SC	9	1"1/2 x 3/4" F		252,07 €	NC	4
560050SC	10	1"1/2 x 3/4" F		277,55 €	NC	1
560051SC	11	1"1/2 x 3/4" F		303,06 €	NC	1
560052SC	12	1"1/2 x 3/4" F		328,53 €	NC	1

### ■ CI 554 M (1"1/2)



- Collettore di ritorno con valvole di intercettazione a manovra manuale e attacchi 3/4" F.
- Return manifold with manually operated isolation valves and 3/4" F connections.
- Collecteur de retour avec vannes d'interception à manoeuvre manuelle et embouts 3/4" F.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbarenventilen mit manueller Hebel und 3/4" IG Anschließen.
- Colector de retorno con válvulas de cierre con cabeza manual y conexiones 3/4" F.

Code	Ways	Size	Color	Price	Class	Packaging
560042M	2	1"1/2 x 3/4" F	■	61,78 €	NC	1
560043M	3	1"1/2 x 3/4" F	■	87,85 €	NC	1
560044M	4	1"1/2 x 3/4" F	■	113,94 €	NC	1
560045M	5	1"1/2 x 3/4" F	■	140,01 €	NC	1
560046M	6	1"1/2 x 3/4" F	■	166,10 €	NC	1
560047M	7	1"1/2 x 3/4" F	■	192,21 €	NC	1
560048M	8	1"1/2 x 3/4" F	■	218,27 €	NC	1
560049M	9	1"1/2 x 3/4" F	■	244,37 €	NC	1
560050M	10	1"1/2 x 3/4" F	■	270,43 €	NC	3
560051M	11	1"1/2 x 3/4" F	■	296,52 €	NC	1
560052M	12	1"1/2 x 3/4" F	■	322,63 €	NC	1
560053M	13	1"1/2 x 3/4" F	■	348,69 €	NC	1

### ■ CI 555 M (1"1/2)



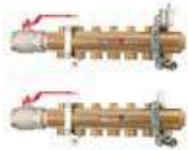
- Collettore di ritorno con valvole di intercettazione a manovra manuale, attacchi 3/4" F, attacchi supplementari per valvola di sfogo aria e valvola di carico/scarico.
- Return manifold with manually operated isolation valves, 3/4" F connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur de retour avec vannes d'interception à manoeuvre manuelle, embouts 3/4" F, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbarenventilen mit manueller Hebel, 3/4" IG Anschließen und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de retorno con válvulas de cierre con cabeza manual, conexiones 3/4" F, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Color	Price	Class	Packaging
560042SM	2	1"1/2 x 3/4" F	■	74,94 €	NC	1
560043SM	3	1"1/2 x 3/4" F	■	101,04 €	NC	1
560044SM	4	1"1/2 x 3/4" F	■	127,11 €	NC	1
560045SM	5	1"1/2 x 3/4" F	■	153,21 €	NC	1
560046SM	6	1"1/2 x 3/4" F	■	179,27 €	NC	1
560047SM	7	1"1/2 x 3/4" F	■	205,36 €	NC	1
560048SM	8	1"1/2 x 3/4" F	■	231,47 €	NC	1
560049SM	9	1"1/2 x 3/4" F	■	257,53 €	NC	1
560050SM	10	1"1/2 x 3/4" F	■	283,63 €	NC	1
560051SM	11	1"1/2 x 3/4" F	■	309,72 €	NC	1
560052SM	12	1"1/2 x 3/4" F	■	335,79 €	NC	1

**■ KSA 005 (1"1/2)**


- **Kit composto da collettori di mandata e ritorno con detentori a doppia regolazione micrometrica, staffe, tappi e attacchi 3/4" F.**
- **Kit made of flow and return manifolds with double micrometric adjustment lockshields, brackets, plugs and 3/4" F connections.**
- **Kit composé de collecteurs d'envoi et de retour avec inserts à double réglage micrométrique, étriers, bouchons et embouts 3/4" F.**
- **Bausatz besteht aus Zulauffus- und Rücklaufverteiler mit doppelfeinvorein Stellbareausgleichoberteile, Haltebügel, Verschlüssen und 3/4" IG Anschlüssen.**
- **Conjunto dotado de colectores de impulsión y de retorno con detentores de doble regulación micrométrica, abrazaderas, tapones y conexiones 3/4" F.**

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
KSA0005B02	2	1"1/2 x 3/4" F	120 mm	200089	500 mm	■	194,24 €	NC	1
KSA0005B03	3	1"1/2 x 3/4" F	120 mm	200089	500 mm	■	242,41 €	NC	1
KSA0005B04	4	1"1/2 x 3/4" F	120 mm	200089	500 mm	■	290,41 €	NC	1
KSA0005B05	5	1"1/2 x 3/4" F	120 mm	200089	500 mm	■	338,59 €	NC	1
KSA0005B06	6	1"1/2 x 3/4" F	120 mm	200590	600 mm	■	386,77 €	NC	1
KSA0005B07	7	1"1/2 x 3/4" F	120 mm	200590	600 mm	■	434,86 €	NC	1
KSA0005B08	8	1"1/2 x 3/4" F	120 mm	200090	700 mm	■	483,04 €	NC	1
KSA0005B09	9	1"1/2 x 3/4" F	120 mm	200090	700 mm	■	531,05 €	NC	1
KSA0005B10	10	1"1/2 x 3/4" F	120 mm	200690	800 mm	■	579,23 €	NC	1
KSA0005B11	11	1"1/2 x 3/4" F	120 mm	200690	800 mm	■	627,21 €	NC	1
KSA0005B12	12	1"1/2 x 3/4" F	120 mm	200190	900 mm	■	675,39 €	NC	1
KSA0005B13	13	1"1/2 x 3/4" F	120 mm	200190	900 mm	■	723,57 €	NC	1

**■ KSA 003 (1"1/2)**


- **Kit composto da collettori di mandata e ritorno con detentori a doppia regolazione micrometrica, staffe, valvole a sfera diritte con bocchettone, valvole di carico/scarico, valvole di sfiato aria, tappi e attacchi 3/4" F.**
- **Kit made of flow and return manifolds with double micrometric adjustment lockshields, brackets, straight ball valves with fitting, filling/drainage valves, air vent valves, plugs and 3/4" F connections.**
- **Kit composé de collecteurs d'envoi et de retour avec inserts à double réglage micrométrique, étriers, vannes à bille droites avec raccord, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts 3/4" F.**
- **Bausatz besteht aus Zulauffus- und Rücklaufverteiler mit doppelfeinvorein Stellbareausgleichoberteile, Haltebügel, Durchgangs-Kugelventilen mit Verschraubung, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und 3/4" IG Anschlüssen.**
- **Conjunto dotado de colectores de impulsión y de retorno con detentores de doble regulación micrométrica, abrazaderas, válvulas de bola rectas con manguito de unión, válvulas para la carga/descarga, válvulas de purga de aire, tapones y conexiones 3/4" F.**

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
KSA0003B02	2	1"1/2 x 3/4" F	120 mm	200089	500 mm	■	510,32 €	NC	1
KSA0003B03	3	1"1/2 x 3/4" F	120 mm	200590	600 mm	■	558,50 €	NC	1
KSA0003B04	4	1"1/2 x 3/4" F	120 mm	200590	600 mm	■	606,50 €	NC	1
KSA0003B05	5	1"1/2 x 3/4" F	120 mm	200090	700 mm	■	654,67 €	NC	1
KSA0003B06	6	1"1/2 x 3/4" F	120 mm	200090	700 mm	■	702,84 €	NC	1
KSA0003B07	7	1"1/2 x 3/4" F	120 mm	200690	800 mm	■	750,87 €	NC	1
KSA0003B08	8	1"1/2 x 3/4" F	120 mm	200690	800 mm	■	799,03 €	NC	1
KSA0003B09	9	1"1/2 x 3/4" F	120 mm	200190	900 mm	■	847,12 €	NC	1
KSA0003B10	10	1"1/2 x 3/4" F	120 mm	200190	900 mm	■	895,23 €	NC	1
KSA0003B11	11	1"1/2 x 3/4" F	120 mm	200790	1000 mm	■	943,30 €	NC	1
KSA0003B12	12	1"1/2 x 3/4" F	120 mm	200790	1000 mm	■	991,48 €	NC	1



- **Cassetta non inclusa >>p. 238,375,461,585**
- **Cabinet not included >>p. 238,375,461,585**
- **Cassette pas inclus >>p. 238,375,461,585**
- **Kasten nicht enthalten >>p. 238,375,461,585**
- **Caja no incluida >>p. 238,375,461,585**

### ■ KSA 034 (1"1/2)



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, tappi e attacchi 3/4" F.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets, plugs and 3/4" F connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, bouchons et embouts 3/4" F.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbareausgleicherteile, Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Verschlüssen und 3/4" IG Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, tapones y conexiones 3/4" F.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
KSA0034B02	2	1"1/2 x 3/4" F	120 mm	200089	500 mm		202,55 €	NC	1
KSA0034B03	3	1"1/2 x 3/4" F	120 mm	200089	500 mm		254,89 €	NC	1
KSA0034B04	4	1"1/2 x 3/4" F	120 mm	200089	500 mm		307,05 €	NC	1
KSA0034B05	5	1"1/2 x 3/4" F	120 mm	200089	500 mm		359,39 €	NC	1
KSA0034B06	6	1"1/2 x 3/4" F	120 mm	200590	600 mm		411,73 €	NC	1
KSA0034B07	7	1"1/2 x 3/4" F	120 mm	200590	600 mm		463,99 €	NC	1
KSA0034B08	8	1"1/2 x 3/4" F	120 mm	200090	700 mm		516,33 €	NC	1
KSA0034B09	9	1"1/2 x 3/4" F	120 mm	200090	700 mm		568,49 €	NC	1
KSA0034B10	10	1"1/2 x 3/4" F	120 mm	200690	800 mm		620,83 €	NC	1
KSA0034B11	11	1"1/2 x 3/4" F	120 mm	200690	800 mm		672,98 €	NC	1
KSA0034B12	12	1"1/2 x 3/4" F	120 mm	200190	900 mm		725,32 €	NC	1
KSA0034B13	13	1"1/2 x 3/4" F	120 mm	200190	900 mm		777,65 €	NC	1

### ■ KSA 035 (1"1/2)



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, valvole a sfera diritte con bocchettone, valvole di carico/scarico, valvole di sfio aria, tappi e attacchi 3/4" F.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with manually operated isolation valves, brackets, straight ball valves with fitting, filling/drainage valves, air vent valves, plugs and 3/4" F connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, vannes à bille droites avec raccord, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts 3/4" F.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbareausgleicherteile, Rücklaufverteiler mit Absperbareventilen mit manueller Hebel, Haltebügel, Durchgangs-Kugelventilen mit Verschraubung, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und 3/4" IG Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, válvulas de bola rectas con manguito de unión, válvulas para la carga/descarga, válvulas de purga de aire, tapones y conexiones 3/4" F.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
KSA0035B02	2	1"1/2 x 3/4" F	120 mm	200089	500 mm		518,65 €	NC	1
KSA0035B03	3	1"1/2 x 3/4" F	120 mm	200590	600 mm		570,99 €	NC	1
KSA0035B04	4	1"1/2 x 3/4" F	120 mm	200590	600 mm		623,14 €	NC	1
KSA0035B05	5	1"1/2 x 3/4" F	120 mm	200090	700 mm		675,48 €	NC	1
KSA0035B06	6	1"1/2 x 3/4" F	120 mm	200090	700 mm		727,81 €	NC	1
KSA0035B07	7	1"1/2 x 3/4" F	120 mm	200690	800 mm		780,00 €	NC	1
KSA0035B08	8	1"1/2 x 3/4" F	120 mm	200690	800 mm		832,31 €	NC	1
KSA0035B09	9	1"1/2 x 3/4" F	120 mm	200190	900 mm		884,56 €	NC	1
KSA0035B10	10	1"1/2 x 3/4" F	120 mm	200190	900 mm		936,84 €	NC	1
KSA0035B11	11	1"1/2 x 3/4" F	120 mm	200790	1000 mm		989,06 €	NC	1
KSA0035B12	12	1"1/2 x 3/4" F	120 mm	200790	1000 mm		1.041,40 €	NC	1



- Cassette non inclusa >>p. 238,375,461,585
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- Cassette pas inclus >>p. 238,375,461,585
- Kasten nicht enthalten >>p. 238,375,461,585
- Caja no incluida >>p. 238,375,461,585

**KSA 036 (1"1/2)**


- **Kit collettori semplici con staffe, tappi e attacchi con valvole di intercettazione a sfera.**
- *Plain manifolds kit with brackets, plugs and connections with isolation ball valves.*
- **Kit de collecteurs simples avec étriers, bouchons et embouts avec vannes d'interception à bille.**
- *Heizkörper-verteiler-kit mit Haltebügel, Verschlüssen und Kugelabsperbarentiln.*
- **Conjunto de colectores simples con abrazaderas, tapones y conexiones con válvulas de interceptación de bola.**

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
KSA0036B02	2	1"1/2 x 3/4" F	130 mm	200089	500 mm	■	244,66 €	NA	1
KSA0036B03	3	1"1/2 x 3/4" F	130 mm	200089	500 mm	■	316,21 €	NA	1
KSA0036B04	4	1"1/2 x 3/4" F	130 mm	200089	500 mm	■	387,58 €	NA	1
KSA0036B05	5	1"1/2 x 3/4" F	130 mm	200089	500 mm	■	459,14 €	NA	1
KSA0036B06	6	1"1/2 x 3/4" F	130 mm	200590	600 mm	■	530,70 €	NA	1
KSA0036B07	7	1"1/2 x 3/4" F	130 mm	200590	600 mm	■	602,16 €	NA	1
KSA0036B08	8	1"1/2 x 3/4" F	130 mm	200090	700 mm	■	673,73 €	NA	1
KSA0036B09	9	1"1/2 x 3/4" F	130 mm	200090	700 mm	■	745,10 €	NA	1
KSA0036B10	10	1"1/2 x 3/4" F	130 mm	200690	800 mm	■	816,66 €	NA	1
KSA0036B11	11	1"1/2 x 3/4" F	130 mm	200690	800 mm	■	888,02 €	NA	1
KSA0036B12	12	1"1/2 x 3/4" F	130 mm	200190	900 mm	■	959,58 €	NA	1
KSA0036B13	13	1"1/2 x 3/4" F	130 mm	200190	900 mm	■	1.031,13 €	NA	1

**KSA 037 (1"1/2)**


- **Kit collettori semplici con staffe, valvole a sfera diritte con bocchettone, valvole di carico/scarico, valvole di sfianto aria, tappi e attacchi con valvole di intercettazione a sfera.**
- *Plain manifolds kit with brackets, straight ball valves with fitting, filling/drainage valves, air vent valves, plugs and connections with isolation ball valves.*
- **Kit de collecteurs simples avec étriers, vannes à bille droites avec raccord, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts avec vannes d'interception à bille.**
- *Heizkörper-verteiler-kit mit Haltebügel, Durchgangs-Kugelventilen mit Verschraubung, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und Kugelabsperbarentiln.*
- **Conjunto de colectores simples con abrazaderas, válvulas de bola rectas con manguito de unión, válvulas para la carga/descarga, válvulas de purga de aire, tapones y conexiones con válvulas de interceptación de bola.**

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Color	Price	Class	Packaging
KSA0037B02	2	1"1/2 x 3/4" F	130 mm	200089	500 mm	■	572,56 €	NA	1
KSA0037B03	3	1"1/2 x 3/4" F	130 mm	200590	600 mm	■	644,11 €	NA	1
KSA0037B04	4	1"1/2 x 3/4" F	130 mm	200590	600 mm	■	715,48 €	NA	1
KSA0037B05	5	1"1/2 x 3/4" F	130 mm	200090	700 mm	■	787,03 €	NA	1
KSA0037B06	6	1"1/2 x 3/4" F	130 mm	200090	700 mm	■	858,60 €	NA	1
KSA0037B07	7	1"1/2 x 3/4" F	130 mm	200690	800 mm	■	929,99 €	NA	1
KSA0037B08	8	1"1/2 x 3/4" F	130 mm	200690	800 mm	■	1.001,53 €	NA	1
KSA0037B09	9	1"1/2 x 3/4" F	130 mm	200190	900 mm	■	1.072,99 €	NA	1
KSA0037B10	10	1"1/2 x 3/4" F	130 mm	200190	900 mm	■	1.144,49 €	NA	1
KSA0037B11	11	1"1/2 x 3/4" F	130 mm	200790	1000 mm	■	1.215,93 €	NA	1
KSA0037B12	12	1"1/2 x 3/4" F	130 mm	200790	1000 mm	■	1.287,49 €	NA	1



- **Cassetta non inclusa >>p. 238,375,461,585**
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# STAINLESS STEEL MANIFOLDS

IVAR steel manifolds are a valid alternative to traditional brass manifolds. They are used for the distribution of heating fluid both in radiant panel systems and radiators, and are compatible also with cooling systems, where suitable insulation is recommended to avoid the effects of surface condensation.

Thanks to micrometric lockshields or flow rate controllers, IVAR's Fluxer stainless-steel manifolds guarantee perfect system balancing, avoiding energy waste and ensuring maximum ambient comfort. They are equipped with manual shutoff valves or valves with electrothermal head for the control of individual circuits.

The manifolds, in AISI 304 high gauge stainless steel, are supplied in flow-return kits, in all the same configurations as available for the brass manifolds. With 1" head fittings and 3/4" BSP EUROK branches, they are available with 2 to 13 ways and are perfectly compatible with all the accessories available for the brass bar manifolds..

## Materials

Body: AISI 304 stainless steel  
Seals and O-rings: peroxide EPDM  
Shutoff knobs and caps: ABS

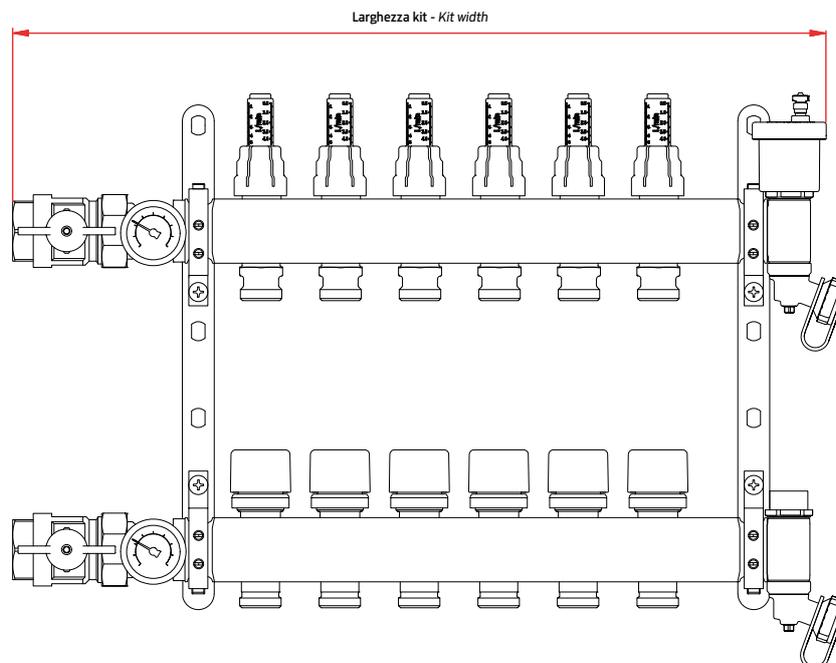
## Technical specifications

Max. fluid temperature: 90 °C  
Maximum operating pressure: 10 bar

## ⊕ PLUS

- Large transit section for increased flow rate.
- Lightweight and easy to install.
- Compatible with both low and high temperatures.
- Optimal mechanical resistance to corrosion
- Competitive price

## MANIFOLD KIT DIMENSIONS AND SUITABLE CABINET



Manifold ways	2	3	4	5	6	7	8	9	10	11	12	13
1" manifolds kit width	309 mm	359 mm	409 mm	459 mm	509 mm	559 mm	609 mm	659 mm	709 mm	759 mm	809 mm	859 mm
1 1/4" manifolds kit width	349 mm	399 mm	449 mm	499 mm	549 mm	599 mm	649 mm	699 mm	749 mm	799 mm	849 mm	899 mm
Suitable cabinet	200086	200086	200086	200686	200686	200186	200186	200786	200786	200286	200286	200886
Cabinet width	500 mm	500 mm	500 mm	600 mm	600 mm	700 mm	700 mm	800 mm	800 mm	900 mm	900 mm	1.000 mm

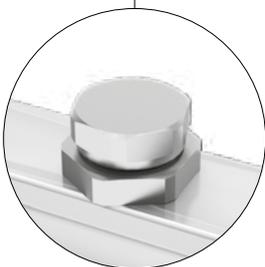
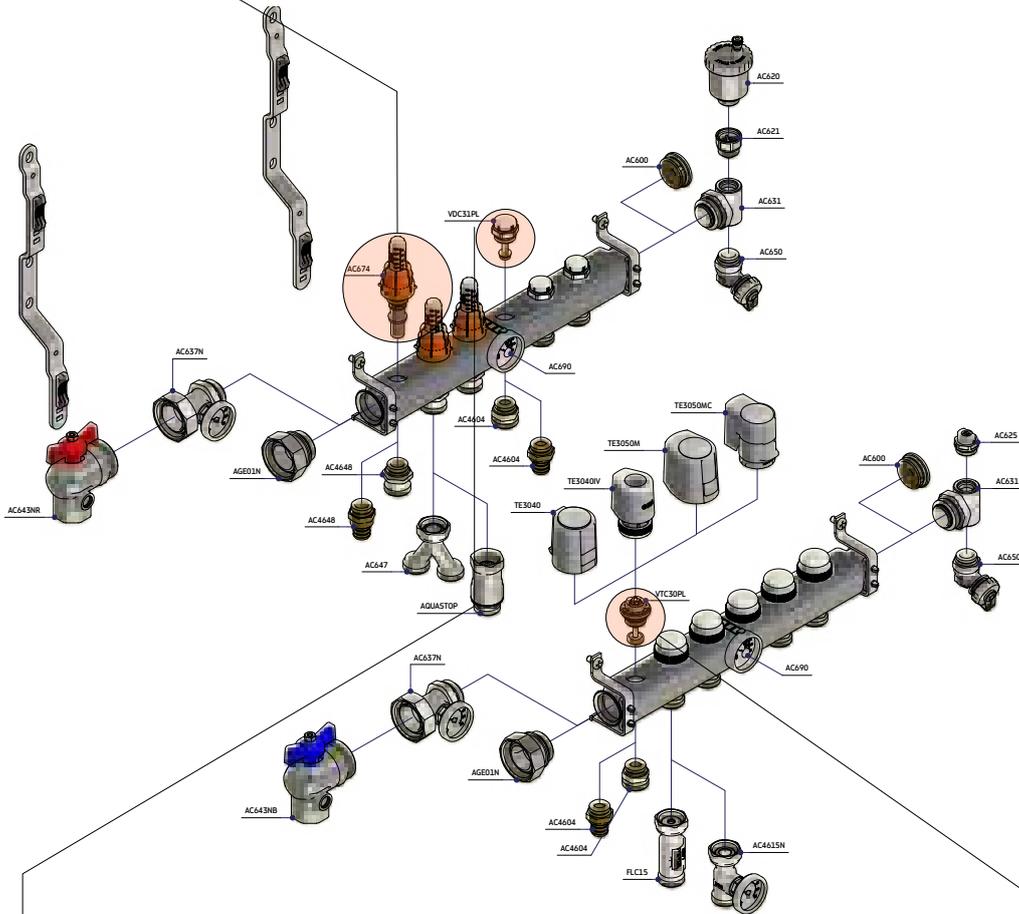
EXAMPLES OF APPLICATION FOR STAINLESS-STEEL MANIFOLD ACCESSORIES



**FLUXER®**

Fluxer is the IVAR device for balancing and the display of flow rates on single circuits.

Glass panel replaceable also with system in operation  
Possibility of shutoff and position memory



**LOCKSHIELD**

Used for the control and static balancing of circuits, equipped with a screw with micrometric thread for gradual opening of the shutter and position memory. The position memory enables shutoff of the circuit, leaving the grub screw position unchanged for subsequent re-opening.

**INSERT WITH THERMOSTATIC CONTROL OPTION**

The manifolds with thermostat control option are supplied with a control knob serving to protect the thread and possible shutoff of the bypass circuit.



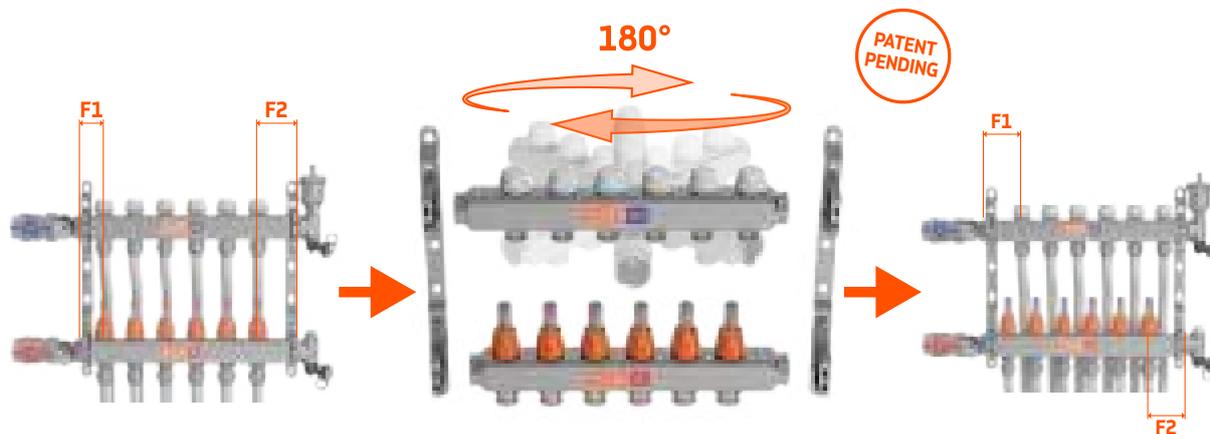
The control rod can also be replaced with the system in operation.





### FOCUS: Outlets misalignment (for 1" manifolds only)

F1 distance is 40 mm long, while F2 distance is 65 mm long. When you rotate 180° one of the two manifolds, you get the outputs misaligned. This feature makes the installation of pipes very simple.

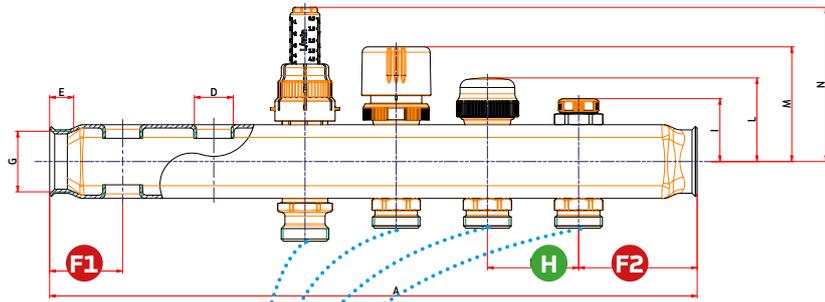


**G 1" 1/4**

**G 1"**

**NOW AVAILABLE**

### 1" SINGLE MANIFOLD DIMENSIONS



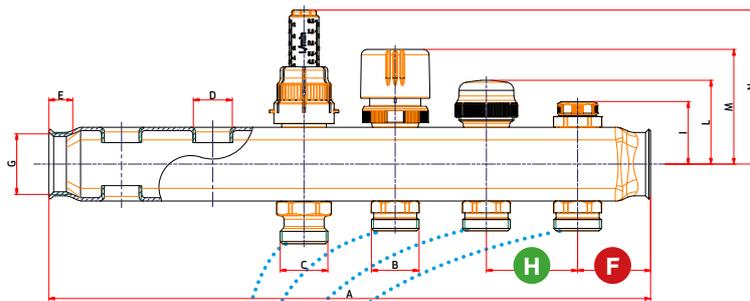
Size	1"
A	$(WAYS - 1) \times H + F1 + F2$
B	EUROK
C	EUROK
D	1/2" F
E	13 mm
F1	40 mm
F2	65 mm
G	1"
H	50 mm
I	36 mm
L	46,5 mm
M	66,5 mm
N	88 mm

$$A = (WAYS - 1) \times H + F1 + F2$$

Centre-to-centre distance

Distance between centreline of last way and end of manifold

### 1 1/4" SINGLE MANIFOLD DIMENSIONS



Size	1 1/4"
A	$(WAYS - 1) \times H + (2 \times F)$
B	EUROK
C	EUROK
D	1/2" F
E	13 mm
F	57,5 mm
G	1 1/4"
H	50 mm
I	41 mm
L	51,5 mm
M	72 mm
N	93,5 mm

$$A = (WAYS - 1) \times H + (2 \times F)$$

Centre-to-centre distance

Distance between centreline of last way and end of manifold

## CS 580



- Collettore semplice con attacchi EUROK.
- Plain manifold with EUROK connections.
- Collecteur simple avec embouts EUROK.
- Verteilerbalken mit EUROK Anschlussnippeln.
- Colector simple con conexiones EUROK.

Code	Ways	Size	Price	Class	Packaging
503622	2	1" x EUROK	27,69 €	OA	36
503623	3	1" x EUROK	34,31 €	OA	26
503624	4	1" x EUROK	40,92 €	OA	18
503625	5	1" x EUROK	47,53 €	OA	16
503626	6	1" x EUROK	54,14 €	OA	14
503627	7	1" x EUROK	60,76 €	OA	14
503628	8	1" x EUROK	67,37 €	OA	14
503629	9	1" x EUROK	73,98 €	OA	14
503630	10	1" x EUROK	80,59 €	OA	14
503631	11	1" x EUROK	87,21 €	OA	14
503632	12	1" x EUROK	93,82 €	OA	14
503633	13	1" x EUROK	100,43 €	OA	14

- Versione 1"1/4 disponibile su richiesta.
- 1"1/4 version available on request.
- Version 1"1/4 disponible sur demande.
- 1"1/4 Ausführung auf Anfrage erhältlich.
- Versión de 1"1/4 disponible bajo pedido.

**CI 599**


- Collettore di mandata con detentori a doppia regolazione micrometrica e attacchi EUROK.
- Flow manifold with micrometric dually adjusted lockshields and EUROK connections.
- Collecteur d'envoi avec inserts à double réglage micrométrique et embouts EUROK.
- Zulauffussbodenheizungsverteilerbalken mit doppelfeinvorein Stellbareausgleichoberteile und EUROK Anschlüssen.
- Colector de impulsión con detentores de doble regulación micrométrica y conexiones EUROK.

Code	Ways	Size	Price	Class	Packaging
503342	2	1" x EUROK	40,00 €	OB	12
503343	3	1" x EUROK	53,05 €	OB	12
503344	4	1" x EUROK	66,12 €	OB	8
503345	5	1" x EUROK	79,17 €	OB	6
503346	6	1" x EUROK	92,23 €	OB	6
503347	7	1" x EUROK	105,28 €	OB	6
503348	8	1" x EUROK	118,35 €	OB	6
503349	9	1" x EUROK	131,40 €	OB	6
503350	10	1" x EUROK	144,46 €	OB	6
503351	11	1" x EUROK	157,51 €	OB	6
503352	12	1" x EUROK	170,58 €	OB	6
503353	13	1" x EUROK	185,93 €	OB	6
503354	14	1" x EUROK	215,08 €	OB	6
503355	15	1" x EUROK	237,65 €	OB	6
503356	16	1" x EUROK	267,28 €	OB	6

**CI 599 SP**


- Collettore di mandata con detentori a doppia regolazione micrometrica, attacchi EUROK, attacchi supplementari per valvola di sfioro aria e valvola di carico/scarico.
- Flow manifold with micrometric dually adjusted lockshields, EUROK connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur d'envoi avec inserts à double réglage micrométrique, embouts EUROK, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Zulauffussbodenheizungsverteilerbalken mit doppelfeinvorein Stellbareausgleichoberteile, EUROK Anschlüssen und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de impulsión con detentores de doble regulación micrométrica, conexiones EUROK, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Price	Class	Packaging
503402	2	1" x EUROK	41,46 €	OB	12
503403	3	1" x EUROK	54,90 €	OB	12
503404	4	1" x EUROK	68,35 €	OB	8
503405	5	1" x EUROK	81,79 €	OB	6
503406	6	1" x EUROK	95,24 €	OB	6
503407	7	1" x EUROK	108,69 €	OB	6
503408	8	1" x EUROK	122,13 €	OB	6
503409	9	1" x EUROK	135,58 €	OB	6
503410	10	1" x EUROK	149,02 €	OB	6
503411	11	1" x EUROK	162,47 €	OB	6
503412	12	1" x EUROK	177,76 €	OB	6
503413	13	1" x EUROK	196,86 €	OB	6
503414	14	1" x EUROK	229,27 €	OB	6
503415	15	1" x EUROK	258,82 €	OB	6

- Versione 1"1/4 disponibile su richiesta.
- 1"1/4 version available on request.
- Version 1"1/4 disponible sur demande.
- 1"1/4 Ausführung auf Anfrage erhältlich.
- Versión de 1"1/4 disponible bajo pedido.

**CI 598**


- Collettore di mandata con misuratore/regolatore portata FLUXER (0-5 l/min) e attacchi EUROK.
- Flow manifold with flow meter/adjuster FLUXER (0-5 l/min) and EUROK connections.
- Collecteur d'envoi avec débit-mètre/régulateur FLUXER (0-5 l/min) et embouts EUROK.
- Vorlaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min) und EUROK Anschlüssen.
- Colector de impulsión medidor/regulador de caudal FLUXER (0-5 l/min) y conexiones EUROK.



0-2,5 l/min ON REQUEST

Code	Ways	Size	Price	Class	Packaging
503322	2	1" x EUROK	45,55 €	OB	12
503323	3	1" x EUROK	61,38 €	OB	12
503324	4	1" x EUROK	77,23 €	OB	8
503325	5	1" x EUROK	93,06 €	OB	6
503326	6	1" x EUROK	108,89 €	OB	6
503327	7	1" x EUROK	124,73 €	OB	6
503328	8	1" x EUROK	140,56 €	OB	6
503329	9	1" x EUROK	156,39 €	OB	6
503330	10	1" x EUROK	172,23 €	OB	6
503331	11	1" x EUROK	188,07 €	OB	6
503332	12	1" x EUROK	203,90 €	OB	6
503333	13	1" x EUROK	222,03 €	OB	6
503334	14	1" x EUROK	253,97 €	OB	6
503335	15	1" x EUROK	279,32 €	OB	6
503336	16	1" x EUROK	311,71 €	OB	6
503442	2	1"1/4 x EUROK	49,55 €	OB	1
503443	3	1"1/4 x EUROK	68,59 €	OB	1
503444	4	1"1/4 x EUROK	87,63 €	OB	1
503445	5	1"1/4 x EUROK	106,67 €	OB	1
503446	6	1"1/4 x EUROK	125,71 €	OB	1
503447	7	1"1/4 x EUROK	144,75 €	OB	1
503448	8	1"1/4 x EUROK	163,79 €	OB	1
503449	9	1"1/4 x EUROK	182,83 €	OB	1
503450	10	1"1/4 x EUROK	201,86 €	OB	1
503451	11	1"1/4 x EUROK	220,90 €	OB	1
503452	12	1"1/4 x EUROK	239,94 €	OB	1
503453	13	1"1/4 x EUROK	258,98 €	OB	1
503454	14	1"1/4 x EUROK	278,02 €	OB	1
503455	15	1"1/4 x EUROK	297,06 €	OB	1
503456	16	1"1/4 x EUROK	316,10 €	OB	1

**CI 598 SP**


0-2,5 l/min ON REQUEST

- Collettore di mandata con misuratore/regolatore portata FLUXER (0-5 l/min), attacchi EUROK, attacchi supplementari per valvola di sfiato aria e valvola di carico/scarico.
- Flow manifold with flow meter/adjuster FLUXER (0-5 l/min), EUROK connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur d'envoi avec débit-mètre/régulateur FLUXER (0-5 l/min), embouts EUROK, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Vorlaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), EUROK Anschlüssen und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de impulsión medidor/regulador de caudal FLUXER (0-5 l/min), conexiones EUROK, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Price	Class	Packaging
503382	2	1" x EUROK	47,01 €	OB	12
503383	3	1" x EUROK	64,41 €	OB	12
503384	4	1" x EUROK	81,81 €	OB	8
503385	5	1" x EUROK	99,20 €	OB	6
503386	6	1" x EUROK	116,60 €	OB	6
503387	7	1" x EUROK	134,00 €	OB	6
503388	8	1" x EUROK	151,40 €	OB	6
503389	9	1" x EUROK	168,80 €	OB	6
503390	10	1" x EUROK	186,20 €	OB	6
503391	11	1" x EUROK	203,60 €	OB	6
503392	12	1" x EUROK	211,09 €	OB	6
503393	13	1" x EUROK	232,96 €	OB	6
503394	14	1" x EUROK	268,16 €	OB	6
503395	15	1" x EUROK	300,47 €	OB	6
503462	2	1"1/4 x EUROK	49,51 €	OB	1
503463	3	1"1/4 x EUROK	69,22 €	OB	1
503464	4	1"1/4 x EUROK	88,93 €	OB	1
503465	5	1"1/4 x EUROK	108,64 €	OB	1
503466	6	1"1/4 x EUROK	128,35 €	OB	1
503467	7	1"1/4 x EUROK	148,06 €	OB	1
503468	8	1"1/4 x EUROK	167,76 €	OB	1
503469	9	1"1/4 x EUROK	187,47 €	OB	1
503470	10	1"1/4 x EUROK	207,18 €	OB	1
503471	11	1"1/4 x EUROK	226,89 €	OB	1
503472	12	1"1/4 x EUROK	246,59 €	OB	1
503473	13	1"1/4 x EUROK	266,30 €	OB	1
503474	14	1"1/4 x EUROK	286,01 €	OB	1
503475	15	1"1/4 x EUROK	305,71 €	OB	1



**CI 583**


- Collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattabile e attacchi EUROK.
- Return manifold with isolation valves with protection cap for thermostatic insert and EUROK connections.
- Collecteur de retour avec vannes d'interception avec capuchon de protection pour insert thermostatisable et embouts EUROK.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbarenventilen mit Schutzkappe für Thermostat-Reguliovorrichtung und EUROK Anschlüssen.
- Colector de retorno con válvulas de cierre con tapa de protección para tornillo termostizable y conexiones EUROK.

Code	Ways	Size	Price	Class	Packaging
503182	2	1" x EUROK	37,01 €	OB	12
503183	3	1" x EUROK	49,18 €	OB	12
503184	4	1" x EUROK	61,34 €	OB	8
503185	5	1" x EUROK	73,51 €	OB	6
503186	6	1" x EUROK	85,68 €	OB	6
503187	7	1" x EUROK	97,84 €	OB	6
503188	8	1" x EUROK	110,01 €	OB	6
503189	9	1" x EUROK	122,17 €	OB	6
503190	10	1" x EUROK	134,33 €	OB	6
503191	11	1" x EUROK	146,51 €	OB	6
503192	12	1" x EUROK	158,67 €	OB	6
503193	13	1" x EUROK	173,11 €	OB	6
503194	14	1" x EUROK	199,24 €	OB	6
503195	15	1" x EUROK	220,62 €	OB	6
503196	16	1" x EUROK	248,49 €	OB	6
503482	2	1"1/4 x EUROK	42,49 €	OB	1
503483	3	1"1/4 x EUROK	58,13 €	OB	1
503484	4	1"1/4 x EUROK	73,78 €	OB	1
503485	5	1"1/4 x EUROK	89,42 €	OB	1
503486	6	1"1/4 x EUROK	105,06 €	OB	1
503487	7	1"1/4 x EUROK	120,70 €	OB	1
503488	8	1"1/4 x EUROK	136,34 €	OB	1
503489	9	1"1/4 x EUROK	151,98 €	OB	1
503490	10	1"1/4 x EUROK	167,63 €	OB	1
503491	11	1"1/4 x EUROK	183,27 €	OB	1
503492	12	1"1/4 x EUROK	198,92 €	OB	1
503493	13	1"1/4 x EUROK	214,56 €	OB	1
503494	14	1"1/4 x EUROK	230,20 €	OB	1
503495	15	1"1/4 x EUROK	245,85 €	OB	1
503496	16	1"1/4 x EUROK	261,48 €	OB	1

**CI 583 SP**


- Collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostattizzabile, attacchi EUROK, attacchi supplementari per valvola di sfiato aria e valvola di carico/scarico.
- Return manifold with isolation valves with protection cap for thermostatic insert, EUROK connections, additional connections for air vent valve and filling/drainage valve.
- Collecteur de retour avec vannes d'interception avec capuchon de protection pour insert thermostatisable, embouts EUROK, embouts supplémentaires pour purgeur d'air et robinet de remplissage/vidange.
- Rücklauf-fussbodenheizungsverteilerbalken mit Absperbareventilen mit Schutzkappe für Thermostat-Reguliervorrichtung, EUROK Anschlüssen und zusätzliche Anschlüsse für Entlüftungsventil und Lade-/Entladeventil.
- Colector de retorno con válvulas de cierre con tapa de protección para tornillo termostaticable, conexiones EUROK, conexiones adicionales para válvula de purga del aire y válvula para la carga/descarga.

Code	Ways	Size	Price	Class	Packaging
503362	2	1" x EUROK	38,48 €	OB	12
503363	3	1" x EUROK	51,04 €	OB	12
503364	4	1" x EUROK	63,60 €	OB	8
503365	5	1" x EUROK	76,16 €	OB	6
503366	6	1" x EUROK	88,72 €	OB	6
503367	7	1" x EUROK	101,28 €	OB	6
503368	8	1" x EUROK	113,84 €	OB	6
503369	9	1" x EUROK	126,40 €	OB	6
503370	10	1" x EUROK	138,96 €	OB	6
503371	11	1" x EUROK	151,53 €	OB	6
503372	12	1" x EUROK	165,86 €	OB	6
503373	13	1" x EUROK	184,05 €	OB	6
503374	14	1" x EUROK	213,43 €	OB	6
503375	15	1" x EUROK	241,78 €	OB	6
514362	2	1"1/4 x EUROK	43,95 €	OB	1
514363	3	1"1/4 x EUROK	60,29 €	OB	1
514364	4	1"1/4 x EUROK	76,61 €	OB	1
514365	5	1"1/4 x EUROK	92,94 €	OB	1
514366	6	1"1/4 x EUROK	109,28 €	OB	1
514367	7	1"1/4 x EUROK	125,61 €	OB	1
514368	8	1"1/4 x EUROK	141,93 €	OB	1
514369	9	1"1/4 x EUROK	158,27 €	OB	1
514370	10	1"1/4 x EUROK	174,60 €	OB	1
514371	11	1"1/4 x EUROK	190,92 €	OB	1
514372	12	1"1/4 x EUROK	207,25 €	OB	1
514373	13	1"1/4 x EUROK	223,59 €	OB	1
514374	14	1"1/4 x EUROK	239,92 €	OB	1
514375	15	1"1/4 x EUROK	256,24 €	OB	1



### CS 584



- Kit collettori semplici con staffe e attacchi EUROK.
- Plain manifolds kit with brackets and EUROK connections.
- Kit de collecteurs simples avec étriers et embouts EUROK.
- Heizkörper-verteiler-kit mit Haltebügel und EUROK Anschlüssen.
- Conjunto de colectores simples con abrazaderas y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503502P80	2	1" x EUROK	80 mm	200086	500 mm	75,11 €	OA	1
503503P80	3	1" x EUROK	80 mm	200086	500 mm	88,34 €	OA	1
503504P80	4	1" x EUROK	80 mm	200086	500 mm	101,57 €	OA	1
503505P80	5	1" x EUROK	80 mm	200086	500 mm	114,78 €	OA	1
503506P80	6	1" x EUROK	80 mm	200086	500 mm	128,01 €	OA	1
503507P80	7	1" x EUROK	80 mm	200086	500 mm	141,24 €	OA	1
503508P80	8	1" x EUROK	80 mm	200086	500 mm	154,47 €	OA	1
503509P80	9	1" x EUROK	80 mm	200686	600 mm	167,68 €	OA	1
503510P80	10	1" x EUROK	80 mm	200686	600 mm	180,91 €	OA	1
503511P80	11	1" x EUROK	80 mm	200186	700 mm	194,14 €	OA	1
503512P80	12	1" x EUROK	80 mm	200186	700 mm	207,37 €	OA	1
503513P80	13	1" x EUROK	80 mm	200786	800 mm	220,60 €	OA	1
503502	2	1" x EUROK	110 mm	200086	500 mm	75,11 €	OA	1
503503	3	1" x EUROK	110 mm	200086	500 mm	88,34 €	OA	1
503504	4	1" x EUROK	110 mm	200086	500 mm	101,57 €	OA	1
503505	5	1" x EUROK	110 mm	200086	500 mm	114,78 €	OA	1
503506	6	1" x EUROK	110 mm	200086	500 mm	128,01 €	OA	1
503507	7	1" x EUROK	110 mm	200086	500 mm	141,24 €	OA	1
503508	8	1" x EUROK	110 mm	200086	500 mm	154,47 €	OA	1
503509	9	1" x EUROK	110 mm	200686	600 mm	167,68 €	OA	1
503510	10	1" x EUROK	110 mm	200686	600 mm	180,91 €	OA	1
503511	11	1" x EUROK	110 mm	200186	700 mm	194,14 €	OA	1
503512	12	1" x EUROK	110 mm	200186	700 mm	207,37 €	OA	1
503513	13	1" x EUROK	110 mm	200786	800 mm	220,60 €	OA	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

- Versione 1"1/4 disponibile su richiesta.
- 1"1/4 version available on request.
- Version 1"1/4 disponible sur demande.
- 1"1/4 Ausführung auf Anfrage erhältlich.
- Versión de 1"1/4 disponible bajo pedido.

**CI 590 C**


- **Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe, valvole di carico/scarico, valvole di sfiato aria, tappi e attacchi EUROK.**
- *Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with isolation valves with protection cap for thermostatic insert, brackets, filling/drainage valves, air vent valves, plugs and EUROK connections.*
- **Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts EUROK.**
- *Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbareausgleichoberteile, Rücklaufverteiler mit Absperbareventile mit Schutzkappe für Thermostat-Regulievorrichtung, Haltebügel, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und EUROK Anschlüssen.*
- **Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas, válvulas para la carga/descarga, válvulas de purga de aire, tapones y conexiones EUROK.**

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503282P80	2	1" x EUROK	80 mm	200086	500 mm	93,49 €	OB	1
503283P80	3	1" x EUROK	80 mm	200086	500 mm	115,57 €	OB	1
503284P80	4	1" x EUROK	80 mm	200086	500 mm	137,64 €	OB	1
503285P80	5	1" x EUROK	80 mm	200086	500 mm	159,72 €	OB	1
503286P80	6	1" x EUROK	80 mm	200086	500 mm	181,79 €	OB	1
503287P80	7	1" x EUROK	80 mm	200086	500 mm	203,87 €	OB	1
503288P80	8	1" x EUROK	80 mm	200686	600 mm	225,94 €	OB	1
503289P80	9	1" x EUROK	80 mm	200686	600 mm	248,01 €	OB	1
503290P80	10	1" x EUROK	80 mm	200186	700 mm	270,09 €	OB	1
503291P80	11	1" x EUROK	80 mm	200186	700 mm	292,16 €	OB	1
503292P80	12	1" x EUROK	80 mm	200786	800 mm	329,95 €	OB	1
503282	2	1" x EUROK	110 mm	200086	500 mm	93,49 €	OB	1
503283	3	1" x EUROK	110 mm	200086	500 mm	115,57 €	OB	1
503284	4	1" x EUROK	110 mm	200086	500 mm	137,64 €	OB	1
503285	5	1" x EUROK	110 mm	200086	500 mm	159,72 €	OB	1
503286	6	1" x EUROK	110 mm	200086	500 mm	181,79 €	OB	1
503287	7	1" x EUROK	110 mm	200086	500 mm	203,87 €	OB	1
503288	8	1" x EUROK	110 mm	200686	600 mm	225,94 €	OB	1
503289	9	1" x EUROK	110 mm	200686	600 mm	248,01 €	OB	1
503290	10	1" x EUROK	110 mm	200186	700 mm	270,09 €	OB	1
503291	11	1" x EUROK	110 mm	200186	700 mm	292,16 €	OB	1
503292	12	1" x EUROK	110 mm	200786	800 mm	329,95 €	OB	1



- **Cassetta non inclusa >>p. 238,585**
- *Cabinet not included >>p. 238,585*
- **Cassette pas inclus >>p. 238,585**
- *Kasten nicht enthalten >>p. 238,585*
- **Caja no incluida >>p. 238,585**

- **Versione 1"1/4 disponibile su richiesta.**
- *1"1/4 version available on request.*
- **Version 1"1/4 disponible sur demande.**
- *1"1/4 Ausführung auf Anfrage erhältlich.*
- **Versión de 1"1/4 disponible bajo pedido.**

## CI 588 C



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with isolation valves with protection cap for thermostatic insert, brackets and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbarenausgleicherteile, Rücklaufverteiler mit Absperbareventile mit Schutzkappe für Thermostat-Regulivorrichtung, Haltebügel und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503572P80	2	1" x EUROK	80 mm	200086	500 mm	75,69 €	OB	1
503573P80	3	1" x EUROK	80 mm	200086	500 mm	96,93 €	OB	1
503574P80	4	1" x EUROK	80 mm	200086	500 mm	118,18 €	OB	1
503575P80	5	1" x EUROK	80 mm	200086	500 mm	139,42 €	OB	1
503576P80	6	1" x EUROK	80 mm	200086	500 mm	160,66 €	OB	1
503577P80	7	1" x EUROK	80 mm	200086	500 mm	181,89 €	OB	1
503578P80	8	1" x EUROK	80 mm	200086	500 mm	203,14 €	OB	1
503579P80	9	1" x EUROK	80 mm	200686	600 mm	224,38 €	OB	1
503580P80	10	1" x EUROK	80 mm	200686	600 mm	245,63 €	OB	1
503581P80	11	1" x EUROK	80 mm	200186	700 mm	266,87 €	OB	1
503582P80	12	1" x EUROK	80 mm	200186	700 mm	288,12 €	OB	1
503583P80	13	1" x EUROK	80 mm	200786	800 mm	325,63 €	OB	1
503572	2	1" x EUROK	110 mm	200086	500 mm	75,69 €	OB	1
503573	3	1" x EUROK	110 mm	200086	500 mm	96,93 €	OB	1
503574	4	1" x EUROK	110 mm	200086	500 mm	118,18 €	OB	1
503575	5	1" x EUROK	110 mm	200086	500 mm	139,42 €	OB	1
503576	6	1" x EUROK	110 mm	200086	500 mm	160,66 €	OB	1
503577	7	1" x EUROK	110 mm	200086	500 mm	181,89 €	OB	1
503578	8	1" x EUROK	110 mm	200086	500 mm	203,14 €	OB	1
503579	9	1" x EUROK	110 mm	200686	600 mm	224,38 €	OB	1
503580	10	1" x EUROK	110 mm	200686	600 mm	245,63 €	OB	1
503581	11	1" x EUROK	110 mm	200186	700 mm	266,87 €	OB	1
503582	12	1" x EUROK	110 mm	200186	700 mm	288,12 €	OB	1
503583	13	1" x EUROK	110 mm	200786	800 mm	325,63 €	OB	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

- Versione 1"1/4 disponibile su richiesta.
- 1"1/4 version available on request.
- Version 1"1/4 disponible sur demande.
- 1"1/4 Ausführung auf Anfrage erhältlich.
- Versión de 1"1/4 disponible bajo pedido.

**CI 585 C**


- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vite termostatico, staffe, attacchi supplementari per valvole di carico/scarico e valvole di sfogo aria, attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with isolation valves with protection cap for thermostatic insert, brackets, additional connections for filling/drainage valves and air vent valves, EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers, embouts supplémentaires pour robinets de remplissage/vidange et purgeurs d'air, embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbareausgleichoberteile, Rücklaufverteiler mit Absperbareventile mit Schutzkappe für Thermostat-Regulievorrichtung, Haltebügel, zusätzliche Anschlüsse für Lade-/Entladeventile und Entlüftungsventile, EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas, conexiones adicionales para válvulas para la carga/descarga y válvulas de purga de aire, conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503522P80	2	1" x EUROK	80 mm	200086	500 mm	77,72 €	OB	1
503523P80	3	1" x EUROK	80 mm	200086	500 mm	99,79 €	OB	1
503524P80	4	1" x EUROK	80 mm	200086	500 mm	121,87 €	OB	1
503525P80	5	1" x EUROK	80 mm	200086	500 mm	143,94 €	OB	1
503526P80	6	1" x EUROK	80 mm	200086	500 mm	166,02 €	OB	1
503527P80	7	1" x EUROK	80 mm	200086	500 mm	188,09 €	OB	1
503528P80	8	1" x EUROK	80 mm	200686	600 mm	210,16 €	OB	1
503529P80	9	1" x EUROK	80 mm	200686	600 mm	232,24 €	OB	1
503530P80	10	1" x EUROK	80 mm	200186	700 mm	254,31 €	OB	1
503531P80	11	1" x EUROK	80 mm	200186	700 mm	276,39 €	OB	1
503532P80	12	1" x EUROK	80 mm	200786	800 mm	314,18 €	OB	1
503522	2	1" x EUROK	110 mm	200086	500 mm	77,72 €	OB	1
503523	3	1" x EUROK	110 mm	200086	500 mm	99,79 €	OB	1
503524	4	1" x EUROK	110 mm	200086	500 mm	121,87 €	OB	1
503525	5	1" x EUROK	110 mm	200086	500 mm	143,94 €	OB	1
503526	6	1" x EUROK	110 mm	200086	500 mm	166,02 €	OB	1
503527	7	1" x EUROK	110 mm	200086	500 mm	188,09 €	OB	1
503528	8	1" x EUROK	110 mm	200686	600 mm	210,16 €	OB	1
503529	9	1" x EUROK	110 mm	200686	600 mm	232,24 €	OB	1
503530	10	1" x EUROK	110 mm	200186	700 mm	254,31 €	OB	1
503531	11	1" x EUROK	110 mm	200186	700 mm	276,39 €	OB	1
503532	12	1" x EUROK	110 mm	200786	800 mm	314,18 €	OB	1



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- 1"1/4 Ausführung auf Anfrage erhältlich.
- Versión de 1"1/4 disponible bajo pedido.

CI 591 C



- Kit composto da collettore di mandata con detentori a doppia regolazione micrometrica, collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe, terminali, valvole di carico/scarico, valvole di sfiato aria e attacchi EUROK.
- Kit made of flow manifold with double micrometric adjustment lockshields, return manifold with isolation valves with protection cap for thermostatic insert, brackets, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec inserts à double réglage micrométrique, un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit doppelfeinvorein Stellbareausgleichoberteile, Rücklaufverteiler mit Absperbareventile mit Schutzkappe für Thermostat-Regulievorrichtung, Haltebügel, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con detentores de doble regulación micrométrica, colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503222P80	2	1" x EUROK	80 mm	200086	500 mm	99,69 €	OB	1
503223P80	3	1" x EUROK	80 mm	200086	500 mm	120,94 €	OB	1
503224P80	4	1" x EUROK	80 mm	200086	500 mm	142,18 €	OB	1
503225P80	5	1" x EUROK	80 mm	200686	600 mm	163,43 €	OB	1
503226P80	6	1" x EUROK	80 mm	200686	600 mm	184,67 €	OB	1
503227P80	7	1" x EUROK	80 mm	200186	700 mm	205,90 €	OB	1
503228P80	8	1" x EUROK	80 mm	200186	700 mm	227,14 €	OB	1
503229P80	9	1" x EUROK	80 mm	200786	800 mm	248,39 €	OB	1
503230P80	10	1" x EUROK	80 mm	200786	800 mm	269,63 €	OB	1
503231P80	11	1" x EUROK	80 mm	200286	900 mm	290,88 €	OB	1
503232P80	12	1" x EUROK	80 mm	200286	900 mm	312,12 €	OB	1
503233P80	13	1" x EUROK	80 mm	200886	1000 mm	349,64 €	OB	1
503222	2	1" x EUROK	110 mm	200086	500 mm	99,69 €	OB	1
503223	3	1" x EUROK	110 mm	200086	500 mm	120,94 €	OB	1
503224	4	1" x EUROK	110 mm	200086	500 mm	142,18 €	OB	1
503225	5	1" x EUROK	110 mm	200686	600 mm	163,43 €	OB	1
503226	6	1" x EUROK	110 mm	200686	600 mm	184,67 €	OB	1
503227	7	1" x EUROK	110 mm	200186	700 mm	205,90 €	OB	1
503228	8	1" x EUROK	110 mm	200186	700 mm	227,14 €	OB	1
503229	9	1" x EUROK	110 mm	200786	800 mm	248,39 €	OB	1
503230	10	1" x EUROK	110 mm	200786	800 mm	269,63 €	OB	1
503231	11	1" x EUROK	110 mm	200286	900 mm	290,88 €	OB	1
503232	12	1" x EUROK	110 mm	200286	900 mm	312,12 €	OB	1
503233	13	1" x EUROK	110 mm	200886	1000 mm	349,64 €	OB	1



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- Versión de 1"1/4 disponible bajo pedido.

**CI 587 C**


0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe, valvole di carico/scarico, valvole di sfiato aria, tappi e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets, filling/drainage valves, air vent valves, plugs and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers, robinets de remplissage/vidange, purgeurs d'air, bouchons et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbareventile mit Schutzkappe für Thermostat-Regulievorrichtung, Haltebügel, Lade-/Entladeventilen, Entlüftungsventilen, Verschlüssen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas, válvulas para la carga/descarga, válvulas de purga de aire, tapones y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503262P80	2	1" x EUROK	80 mm	200086	500 mm	111,33 €	OB	1
503263P80	3	1" x EUROK	80 mm	200086	500 mm	140,41 €	OB	1
503264P80	4	1" x EUROK	80 mm	200086	500 mm	169,49 €	OB	1
503265P80	5	1" x EUROK	80 mm	200086	500 mm	198,57 €	OB	1
503266P80	6	1" x EUROK	80 mm	200086	500 mm	227,64 €	OB	1
503267P80	7	1" x EUROK	80 mm	200086	500 mm	256,73 €	OB	1
503268P80	8	1" x EUROK	80 mm	200686	600 mm	285,80 €	OB	1
503269P80	9	1" x EUROK	80 mm	200686	600 mm	314,88 €	OB	1
503270P80	10	1" x EUROK	80 mm	200186	700 mm	343,95 €	OB	1
503271P80	11	1" x EUROK	80 mm	200186	700 mm	373,03 €	OB	1
503272P80	12	1" x EUROK	80 mm	200786	800 mm	419,67 €	OB	1
503262	2	1" x EUROK	110 mm	200086	500 mm	111,33 €	OB	1
503263	3	1" x EUROK	110 mm	200086	500 mm	140,41 €	OB	1
503264	4	1" x EUROK	110 mm	200086	500 mm	169,49 €	OB	1
503265	5	1" x EUROK	110 mm	200086	500 mm	198,57 €	OB	1
503266	6	1" x EUROK	110 mm	200086	500 mm	227,64 €	OB	1
503267	7	1" x EUROK	110 mm	200086	500 mm	256,73 €	OB	1
503268	8	1" x EUROK	110 mm	200686	600 mm	285,80 €	OB	1
503269	9	1" x EUROK	110 mm	200686	600 mm	314,88 €	OB	1
503270	10	1" x EUROK	110 mm	200186	700 mm	343,95 €	OB	1
503271	11	1" x EUROK	110 mm	200186	700 mm	373,03 €	OB	1
503272	12	1" x EUROK	110 mm	200786	800 mm	419,67 €	OB	1



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- Caja no incluida >>p. 238,585

- Versione 1"1/4 disponibile su richiesta.
- 1"1/4 version available on request.
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- 1"1/4 Ausführung auf Anfrage erhältlich.
- Versión de 1"1/4 disponible bajo pedido.

### CI 589 C



0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbareventile mit Schutzkappe für Thermostat-Regulivorrichtung, Haltebügel und EUROK Anschließen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503202P80	2	1" x EUROK	80 mm	200086	500 mm	93,54 €	OB	1
503203P80	3	1" x EUROK	80 mm	200086	500 mm	121,78 €	OB	1
503204P80	4	1" x EUROK	80 mm	200086	500 mm	150,03 €	OB	1
503205P80	5	1" x EUROK	80 mm	200086	500 mm	178,28 €	OB	1
503206P80	6	1" x EUROK	80 mm	200086	500 mm	206,50 €	OB	1
503207P80	7	1" x EUROK	80 mm	200086	500 mm	234,75 €	OB	1
503208P80	8	1" x EUROK	80 mm	200086	500 mm	263,00 €	OB	1
503209P80	9	1" x EUROK	80 mm	200686	600 mm	291,24 €	OB	1
503210P80	10	1" x EUROK	80 mm	200686	600 mm	319,49 €	OB	1
503211P80	11	1" x EUROK	80 mm	200186	700 mm	347,73 €	OB	1
503212P80	12	1" x EUROK	80 mm	200186	700 mm	377,83 €	OB	1
503213P80	13	1" x EUROK	80 mm	200786	800 mm	424,47 €	OB	1
503202	2	1" x EUROK	110 mm	200086	500 mm	93,54 €	OB	1
503203	3	1" x EUROK	110 mm	200086	500 mm	121,78 €	OB	1
503204	4	1" x EUROK	110 mm	200086	500 mm	150,03 €	OB	1
503205	5	1" x EUROK	110 mm	200086	500 mm	178,28 €	OB	1
503206	6	1" x EUROK	110 mm	200086	500 mm	206,50 €	OB	1
503207	7	1" x EUROK	110 mm	200086	500 mm	234,75 €	OB	1
503208	8	1" x EUROK	110 mm	200086	500 mm	263,00 €	OB	1
503209	9	1" x EUROK	110 mm	200686	600 mm	291,24 €	OB	1
503210	10	1" x EUROK	110 mm	200686	600 mm	319,49 €	OB	1
503211	11	1" x EUROK	110 mm	200186	700 mm	347,73 €	OB	1
503212	12	1" x EUROK	110 mm	200186	700 mm	377,83 €	OB	1
503213	13	1" x EUROK	110 mm	200786	800 mm	424,47 €	OB	1
514202	2	1"1/4 x EUROK	110 mm	200086	500 mm	102,96 €	OB	1
514203	3	1"1/4 x EUROK	110 mm	200086	500 mm	138,42 €	OB	1
514204	4	1"1/4 x EUROK	110 mm	200086	500 mm	173,88 €	OB	1
514205	5	1"1/4 x EUROK	110 mm	200086	500 mm	209,33 €	OB	1
514206	6	1"1/4 x EUROK	110 mm	200086	500 mm	244,79 €	OB	1
514207	7	1"1/4 x EUROK	110 mm	200086	500 mm	280,25 €	OB	1
514208	8	1"1/4 x EUROK	110 mm	200086	500 mm	315,70 €	OB	1
514209	9	1"1/4 x EUROK	110 mm	200686	600 mm	351,16 €	OB	1
514210	10	1"1/4 x EUROK	110 mm	200686	600 mm	386,62 €	OB	1
514211	11	1"1/4 x EUROK	110 mm	200186	700 mm	422,07 €	OB	1
514212	12	1"1/4 x EUROK	110 mm	200186	700 mm	457,52 €	OB	1
514213	13	1"1/4 x EUROK	110 mm	200786	800 mm	492,98 €	OB	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
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- Caja no incluida >>p. 238,585

**CI 586 C**


0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe, attacchi supplementari per valvole di carico/scarico e valvole di sfiato aria, attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets, additional connections for filling/drainage valves and air vent valves, EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers, embouts supplémentaires pour robinets de remplissage/vidange et purgeurs d'air, embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperrbarenventile mit Schutzkappe für Thermostat-Regulievorrichtung, Haltebügel, zusätzliche Anschlüsse für Lade-/Entladeventile und Entlüftungsventile, EUROK Anschlüsse.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas, conexiones adicionales para válvulas para la carga/descarga y válvulas de purga de aire, conexiones EUROK.



Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503542P80	2	1" x EUROK	80 mm	200086	500 mm	95,55 €	OB	1
503543P80	3	1" x EUROK	80 mm	200086	500 mm	124,64 €	OB	1
503544P80	4	1" x EUROK	80 mm	200086	500 mm	153,71 €	OB	1
503545P80	5	1" x EUROK	80 mm	200086	500 mm	182,79 €	OB	1
503546P80	6	1" x EUROK	80 mm	200086	500 mm	211,87 €	OB	1
503547P80	7	1" x EUROK	80 mm	200086	500 mm	240,95 €	OB	1
503548P80	8	1" x EUROK	80 mm	200686	600 mm	270,03 €	OB	1
503549P80	9	1" x EUROK	80 mm	200686	600 mm	299,10 €	OB	1
503550P80	10	1" x EUROK	80 mm	200186	700 mm	328,18 €	OB	1
503551P80	11	1" x EUROK	80 mm	200186	700 mm	357,25 €	OB	1
503552P80	12	1" x EUROK	80 mm	200786	800 mm	403,90 €	OB	1
503542	2	1" x EUROK	110 mm	200086	500 mm	95,55 €	OB	1
503543	3	1" x EUROK	110 mm	200086	500 mm	124,64 €	OB	1
503544	4	1" x EUROK	110 mm	200086	500 mm	153,71 €	OB	1
503545	5	1" x EUROK	110 mm	200086	500 mm	182,79 €	OB	1
503546	6	1" x EUROK	110 mm	200086	500 mm	211,87 €	OB	1
503547	7	1" x EUROK	110 mm	200086	500 mm	240,95 €	OB	1
503548	8	1" x EUROK	110 mm	200686	600 mm	270,03 €	OB	1
503549	9	1" x EUROK	110 mm	200686	600 mm	299,10 €	OB	1
503550	10	1" x EUROK	110 mm	200186	700 mm	328,18 €	OB	1
503551	11	1" x EUROK	110 mm	200186	700 mm	357,25 €	OB	1
503552	12	1" x EUROK	110 mm	200786	800 mm	403,90 €	OB	1
514222	2	1"1/4 x EUROK	110 mm	200086	500 mm	101,52 €	OB	1
514223	3	1"1/4 x EUROK	110 mm	200086	500 mm	136,78 €	OB	1
514224	4	1"1/4 x EUROK	110 mm	200086	500 mm	172,05 €	OB	1
514225	5	1"1/4 x EUROK	110 mm	200086	500 mm	207,31 €	OB	1
514226	6	1"1/4 x EUROK	110 mm	200086	500 mm	242,57 €	OB	1
514227	7	1"1/4 x EUROK	110 mm	200086	500 mm	277,83 €	OB	1
514228	8	1"1/4 x EUROK	110 mm	200686	600 mm	313,09 €	OB	1
514229	9	1"1/4 x EUROK	110 mm	200686	600 mm	348,35 €	OB	1
514230	10	1"1/4 x EUROK	110 mm	200186	700 mm	383,62 €	OB	1
514231	11	1"1/4 x EUROK	110 mm	200186	700 mm	418,88 €	OB	1
514232	12	1"1/4 x EUROK	110 mm	200786	800 mm	454,14 €	OB	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

## CI 592 C



0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe, terminali, valvole di carico/scarico, valvole di sfiato aria e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbareventile mit Schutzkappe für Thermostat-Regulievorrichtung, Haltebügel, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503242P80	2	1" x EUROK	80 mm	200086	500 mm	117,54 €	OB	1
503243P80	3	1" x EUROK	80 mm	200086	500 mm	145,79 €	OB	1
503244P80	4	1" x EUROK	80 mm	200086	500 mm	174,03 €	OB	1
503245P80	5	1" x EUROK	80 mm	200686	600 mm	202,28 €	OB	1
503246P80	6	1" x EUROK	80 mm	200686	600 mm	230,52 €	OB	1
503247P80	7	1" x EUROK	80 mm	200186	700 mm	258,76 €	OB	1
503248P80	8	1" x EUROK	80 mm	200186	700 mm	287,01 €	OB	1
503249P80	9	1" x EUROK	80 mm	200786	800 mm	315,26 €	OB	1
503250P80	10	1" x EUROK	80 mm	200786	800 mm	343,50 €	OB	1
503251P80	11	1" x EUROK	80 mm	200286	900 mm	371,75 €	OB	1
503252P80	12	1" x EUROK	80 mm	200286	900 mm	401,83 €	OB	1
503253P80	13	1" x EUROK	80 mm	200886	1000 mm	448,48 €	OB	1
503242	2	1" x EUROK	110 mm	200086	500 mm	117,54 €	OB	1
503243	3	1" x EUROK	110 mm	200086	500 mm	145,79 €	OB	1
503244	4	1" x EUROK	110 mm	200086	500 mm	174,03 €	OB	1
503245	5	1" x EUROK	110 mm	200686	600 mm	202,28 €	OB	1
503246	6	1" x EUROK	110 mm	200686	600 mm	230,52 €	OB	1
503247	7	1" x EUROK	110 mm	200186	700 mm	258,76 €	OB	1
503248	8	1" x EUROK	110 mm	200186	700 mm	287,01 €	OB	1
503249	9	1" x EUROK	110 mm	200786	800 mm	315,26 €	OB	1
503250	10	1" x EUROK	110 mm	200786	800 mm	343,50 €	OB	1
503251	11	1" x EUROK	110 mm	200286	900 mm	371,75 €	OB	1
503252	12	1" x EUROK	110 mm	200286	900 mm	401,83 €	OB	1
503253	13	1" x EUROK	110 mm	200886	1000 mm	448,48 €	OB	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
- Casette pas inclus >>p. 238,585
- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

- Versione 1"1/4 disponibile su richiesta.
- 1"1/4 version available on request.
- Version 1"1/4 disponible sur demande.
- 1"1/4 Ausführung auf Anfrage erhältlich.
- Versión de 1"1/4 disponible bajo pedido.

**CI 592 KC**


0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe, terminali, valvole di carico/scarico, valvole di sfiato aria e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulauffusverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbareventile mit Schutzkappe für Thermostat-Reguliovorrichtung, Haltebügel, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503242KC	2	1" x EUROK	80 mm	200086	500 mm	125,47 €	OB	1
503243KC	3	1" x EUROK	80 mm	200086	500 mm	153,72 €	OB	1
503244KC	4	1" x EUROK	80 mm	200086	500 mm	181,97 €	OB	1
503245KC	5	1" x EUROK	80 mm	200686	600 mm	210,21 €	OB	1
503246KC	6	1" x EUROK	80 mm	200686	600 mm	238,45 €	OB	1
503247KC	7	1" x EUROK	80 mm	200186	700 mm	266,69 €	OB	1
503248KC	8	1" x EUROK	80 mm	200186	700 mm	294,94 €	OB	1
503249KC	9	1" x EUROK	80 mm	200786	800 mm	323,19 €	OB	1
503250KC	10	1" x EUROK	80 mm	200786	800 mm	351,43 €	OB	1
503251KC	11	1" x EUROK	80 mm	200286	900 mm	379,68 €	OB	1
503252KC	12	1" x EUROK	80 mm	200286	900 mm	409,78 €	OB	1
503253KC	13	1" x EUROK	80 mm	200886	1000 mm	456,41 €	OB	1



- Cassetta non inclusa >>p. 238,585
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- Versione 1"1/4 disponibile su richiesta.
- 1"1/4 version available on request.
- Version 1"1/4 disponible sur demande.
- 1"1/4 Ausführung auf Anfrage erhältlich.
- Versión de 1"1/4 disponible bajo pedido.

### ■ KCA 02 A (1")



0-2.5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe, valvole a sfera diritte con bocchettone, termometri, terminali, valvole di carico/scarico, valvole di sfiato aria e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets, straight ball valves with fitting, thermometers, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers, vannes à bille droites avec raccord, thermomètres, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbareventilen mit Schutzkappe für Thermostat-Regulievorrichtung, Haltebügel, Durchgangs-Kugelventilen mit Verschraubung, Thermometer, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas, válvulas de bola rectas con manguito de unión, termómetros, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503202AIV	2	1" x EUROK	80 mm	200086	500 mm	214,91 €	OB	1
503203AIV	3	1" x EUROK	80 mm	200086	500 mm	243,16 €	OB	1
503204AIV	4	1" x EUROK	80 mm	200086	500 mm	271,41 €	OB	1
503205AIV	5	1" x EUROK	80 mm	200686	600 mm	299,65 €	OB	1
503206AIV	6	1" x EUROK	80 mm	200686	600 mm	327,89 €	OB	1
503207AIV	7	1" x EUROK	80 mm	200186	700 mm	356,14 €	OB	1
503208AIV	8	1" x EUROK	80 mm	200186	700 mm	384,38 €	OB	1
503209AIV	9	1" x EUROK	80 mm	200786	800 mm	412,63 €	OB	1
503210AIV	10	1" x EUROK	80 mm	200786	800 mm	440,88 €	OB	1
503211AIV	11	1" x EUROK	80 mm	200286	900 mm	469,12 €	OB	1
503212AIV	12	1" x EUROK	80 mm	200286	900 mm	499,22 €	OB	1
503213AIV	13	1" x EUROK	80 mm	200886	1000 mm	545,86 €	OB	1



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- Versione 1"1/4 disponibile su richiesta.
- 1"1/4 version available on request.
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- 1"1/4 Ausführung auf Anfrage erhältlich.
- Versión de 1"1/4 disponible bajo pedido.

**KCA 02 AS (1")**


0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione con cappuccio di protezione per vitone termostatico, staffe, valvole a sfera a squadra con bocchettone, termometri, terminali, valvole di carico/ scarico, valvole di sfiato aria e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets, square ball valves with fitting, thermometers, terminals, filling/drainage valves, air vent valves and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception avec capuchon de protection pour insert thermostatique, étriers, vannes à bille équerre avec raccord, thermomètres, parties terminales, robinets de remplissage/vidange, purgeurs d'air et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbarentilen mit Schutzkappe für Thermostat-Reguliertvorrichtung, Haltebügel, Eck-Kugelventilen mit Verschraubung, Thermometer, Endstücke, Lade-/Entladeventilen, Entlüftungsventilen und EUROK Anschließen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con tapa de protección para tornillo termostático, abrazaderas, válvulas de bola de escuadra con manguito de unión, termómetros, terminales, válvulas para la carga/descarga, válvulas de purga de aire y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
503202ASIV	2	1" x EUROK	80 mm	200086	500 mm	222,27 €	OB	1
503203ASIV	3	1" x EUROK	80 mm	200086	500 mm	250,52 €	OB	1
503204ASIV	4	1" x EUROK	80 mm	200086	500 mm	278,76 €	OB	1
503205ASIV	5	1" x EUROK	80 mm	200686	600 mm	307,01 €	OB	1
503206ASIV	6	1" x EUROK	80 mm	200686	600 mm	335,25 €	OB	1
503207ASIV	7	1" x EUROK	80 mm	200186	700 mm	363,49 €	OB	1
503208ASIV	8	1" x EUROK	80 mm	200186	700 mm	391,74 €	OB	1
503209ASIV	9	1" x EUROK	80 mm	200786	800 mm	419,99 €	OB	1
503210ASIV	10	1" x EUROK	80 mm	200786	800 mm	448,23 €	OB	1
503211ASIV	11	1" x EUROK	80 mm	200286	900 mm	476,48 €	OB	1
503212ASIV	12	1" x EUROK	80 mm	200286	900 mm	506,57 €	OB	1
503213ASIV	13	1" x EUROK	80 mm	200886	1000 mm	553,21 €	OB	1



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# TECHNOPOLYMER MANIFOLDS

IVAR's polymer manifolds are modular and specially designed for radiant cooling systems, where they make a significant contribution to the reduction of surface condensation. They are produced in glass fibre reinforced polyamide and are supplied pre-assembled in kits on double brackets or double lowered brackets. Available in 1" and 1"1/4 versions, complete with Fluxer (0-5 l/min) for flow rate control and inserts with option of thermostat control on the return manifold.

## Materials

Body: PAS777

Seals and O-rings: peroxide EPDM

Shutoff knobs and caps: ABS

## Technical specifications

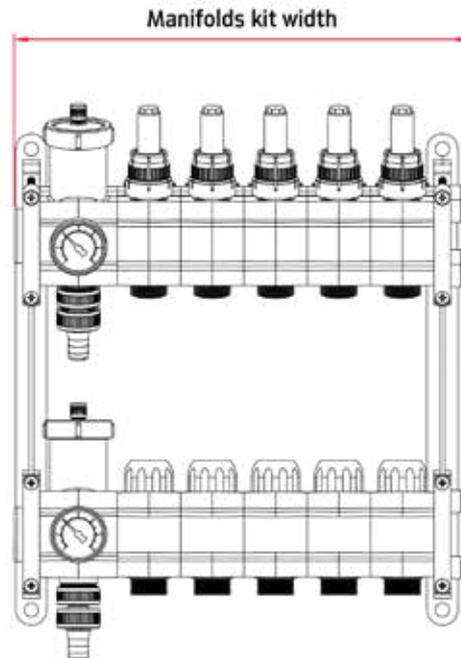
Fluid temperature: -10 - 82 °C

Maximum operating pressure: 4 bar

## ⊕ PLUS

- Rugged and lightweight composite materials.
- Limited formation of condensation.
- Resistance to chemicals, UV rays and corrosion.
- Suitable both for radiant heating and cooling systems.

## MANIFOLDS KIT WIDTH AND SUITABLE CABINET



Manifold ways	2	3	4	5	6	7	8	9	10	11	12	13
1" manifolds kit width	254 mm	299 mm	344 mm	389 mm	434 mm	479 mm	524 mm	569 mm	614 mm	659 mm	704 mm	749 mm
1"1/4 manifolds kit width	266 mm	311 mm	356 mm	401 mm	446 mm	491 mm	536 mm	581 mm	626 mm	671 mm	716 mm	761 mm
Suitable cabinet	200086	200086	200086	200686	200686	200186	200186	200786	200786	200286	200286	200886
Cabinet width	500 mm	500 mm	500 mm	600 mm	600 mm	700 mm	700 mm	800 mm	800 mm	900 mm	900 mm	1.000 mm

**CP 001**


0-2,5 l/min ON REQUEST

- Kit composto da collettore di mandata con misuratori/regolatori di portata FLUXER (0-5 l/min), collettore di ritorno con valvole di intercettazione a manovra manuale, staffe, termometri, valvole di carico/scarico, valvole di sfiato aria, tappi incorporati e attacchi EUROK.
- Kit made of flow manifold with flow meters/adjusters FLUXER (0-5 l/min), return manifold with manually operated isolation valves, brackets, thermometers, filling/drainage valves, air vent valves, incorporated plugs and EUROK connections.
- Kit composé d'un collecteur d'envoi avec débit-mètres/régulateurs FLUXER (0-5 l/min), un collecteur de retour avec des vannes d'interception à manoeuvre manuelle, étriers, thermomètres, robinets de remplissage/vidange, purgeurs d'air, bouchons incorporés et embouts EUROK.
- Bausatz besteht aus Zulaufverteiler mit Durchflussmengenmesser FLUXER (0-5 l/min), Rücklaufverteiler mit Absperbareventile mit manueller Hebel, Haltebügel, Thermometer, Lade-/Entladeventilen, Entlüftungsventilen, eingebaute Verschlüssen und EUROK Anschlüssen.
- Conjunto dotado de colector de impulsión con medidores/reguladores de caudal FLUXER (0-5 l/min), colector de retorno con válvulas de cierre con cabeza manual, abrazaderas, termómetros, válvulas para la carga/descarga, válvulas de purga de aire, tapones incorporados y conexiones EUROK.

Code	Ways	Size	Depth	Suitable Cabinet	Cabinet width	Price	Class	Packaging
400702	2	1" x EUROK	95 mm	200086	500 mm	190,31 €	NV	1
400703	3	1" x EUROK	95 mm	200086	500 mm	237,32 €	NV	1
400704	4	1" x EUROK	95 mm	200086	500 mm	288,82 €	NV	1
400705	5	1" x EUROK	95 mm	200686	600 mm	338,08 €	NV	1
400706	6	1" x EUROK	95 mm	200686	600 mm	385,09 €	NV	1
400707	7	1" x EUROK	95 mm	200186	700 mm	436,59 €	NV	1
400708	8	1" x EUROK	95 mm	200186	700 mm	488,08 €	NV	1
400709	9	1" x EUROK	95 mm	200786	800 mm	537,34 €	NV	1
400710	10	1" x EUROK	95 mm	200786	800 mm	591,07 €	NV	1
400711	11	1" x EUROK	95 mm	200286	900 mm	640,33 €	NV	1
400712	12	1" x EUROK	95 mm	200286	900 mm	694,06 €	NV	1
400713	13	1" x EUROK	95 mm	200886	1000 mm	747,79 €	NV	1
400714	14	1" x EUROK	95 mm	200886	1000 mm	797,05 €	NV	1
400715	15	1" x EUROK	95 mm	200386	1100 mm	850,78 €	NV	1
400716	16	1" x EUROK	95 mm	200386	1100 mm	908,59 €	NV	1
410702	2	1"1/4 x EUROK	95 mm	200086	500 mm	194,79 €	NV	1
410703	3	1"1/4 x EUROK	95 mm	200086	500 mm	241,80 €	NV	1
410704	4	1"1/4 x EUROK	95 mm	200086	500 mm	293,30 €	NV	1
410705	5	1"1/4 x EUROK	95 mm	200686	600 mm	342,56 €	NV	1
410706	6	1"1/4 x EUROK	95 mm	200686	600 mm	391,81 €	NV	1
410707	7	1"1/4 x EUROK	95 mm	200186	700 mm	443,30 €	NV	1
410708	8	1"1/4 x EUROK	95 mm	200186	700 mm	494,80 €	NV	1
410709	9	1"1/4 x EUROK	95 mm	200786	800 mm	546,29 €	NV	1
410710	10	1"1/4 x EUROK	95 mm	200786	800 mm	600,03 €	NV	1
410711	11	1"1/4 x EUROK	95 mm	200286	900 mm	649,28 €	NV	1
410712	12	1"1/4 x EUROK	95 mm	200286	900 mm	703,01 €	NV	1
410713	13	1"1/4 x EUROK	95 mm	200886	1000 mm	756,75 €	NV	1
410714	14	1"1/4 x EUROK	95 mm	200886	1000 mm	808,25 €	NV	1
410715	15	1"1/4 x EUROK	95 mm	200386	1100 mm	859,74 €	NV	1
410716	16	1"1/4 x EUROK	95 mm	200386	1100 mm	1.078,70 €	NV	1



- Cassetta non inclusa >>p. 238,585
- Cabinet not included >>p. 238,585
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- Kasten nicht enthalten >>p. 238,585
- Caja no incluida >>p. 238,585

# CABINETS

## AC 830



- Cassetta murale ad incasso per collettori e moduli MC / IVAR-SAT / MULTIMIX / MULTIMIX-C con altezza e profondità variabili.
- Wall fitted box for manifolds and MC / IVAR-SAT / MULTIMIX / MULTIMIX-C modules with variable height and depth.
- Casette murale encastrable pour collecteurs et modules MC / IVAR-SAT / MULTIMIX / MULTIMIX-C avec hauteur et profondeur variables.
- Einbauwandkasten für Verteiler und Module MC / IVAR-SAT / MULTIMIX / MULTIMIX-C mit variabler Höhe und Tiefe.
- Caja mural de empotrar para colectores y modulos MC / IVAR-SAT / MULTIMIX / MULTIMIX-C de altura y profundidad variables.

Code	Height	Width	Depth	Module	Price	Class	Packaging
200089	860-960 mm	500 mm	110-160 mm	2-way Multimix/Multimix-C	181,85 €	NZ	1
200590	860-960 mm	600 mm	110-160 mm	MC4 series (3/4")	196,64 €	NZ	1
200090	860-960 mm	700 mm	110-160 mm	MC 1/11/12/13/14 - MC4 series (1") - IVAR-SAT H/L/LE - 3-way Multimix/Multimix-C	201,12 €	NZ	1
200690	860-960 mm	800 mm	110-160 mm		227,62 €	NZ	1
200190	860-960 mm	900 mm	110-160 mm	MC2 series - IVAR-SAT HL/HLE	265,73 €	NZ	1
200790	860-960 mm	1000 mm	110-160 mm		283,95 €	NZ	1
200290	860-960 mm	1100 mm	110-160 mm		329,36 €	NZ	1
200890	860-960 mm	1200 mm	110-160 mm		361,36 €	NZ	1
200390	860-960 mm	1300 mm	110-160 mm		392,76 €	NZ	1
200490	860-960 mm	1500 mm	110-160 mm		479,76 €	NZ	1

## AC 840



- Cassetta murale ad incasso per collettori e moduli MC con altezza e profondità variabili.
- Wall fitted box for manifolds and MC modules with variable height and depth.
- Casette murale encastrable pour collecteurs et modules MC avec hauteur et profondeur variables.
- Einbauwandkasten für Verteiler und Module MC mit variabler Höhe und Tiefe.
- Caja mural de empotrar para colectores y modulos MC de altura y profundidad variables.

Code	Height	Width	Depth	Module	Price	Class	Packaging
200086	600-700 mm	500 mm	80-130 mm	MC3 series	136,12 €	NZ	1
200686	600-700 mm	600 mm	80-130 mm		141,19 €	NZ	1
200186	600-700 mm	700 mm	80-130 mm	MC15	161,43 €	NZ	1
200786	600-700 mm	800 mm	80-130 mm		179,50 €	NZ	1
200286	600-700 mm	900 mm	80-130 mm		212,39 €	NZ	1
200886	600-700 mm	1000 mm	80-130 mm		220,03 €	NZ	1
200386	600-700 mm	1100 mm	80-130 mm		237,59 €	NZ	1
200986	600-700 mm	1200 mm	80-130 mm		257,80 €	NZ	1
200486	600-700 mm	1300 mm	80-130 mm		321,24 €	NZ	1
200586	600-700 mm	1500 mm	80-130 mm		360,92 €	NZ	1

## AC 840 E



- Cassetta murale ad incasso in lamiera zincata con copertura verniciata bianca, piedini scorrevoli per la regolazione in altezza e rete per intonaco. Il fissaggio telescopico della copertura permette la compensazione dello spessore dell'intonaco, estendendo la profondità da 80 a 130 mm.
- Wall-mounted box in galvanized sheet with white painted cover, sliding feet for height adjustment and mesh for plastering. The telescopic fixing of the cover allows compensation of the plaster thickness, extending the depth from 80 to 130 mm.
- Boîtier encastré mural en tôle galvanisée avec couvercle peint blanc, pieds coulissants pour réglage en hauteur et treillis pour plâtre. La fixation télescopique du couvercle permet la compensation de l'épaisseur du plâtre, en prolongeant la profondeur de 80 à 130 mm.
- Einbau-Wandkasten aus verzinktem Blech mit weiß lackiertem Deckel, Schiebefüßen zur Höhenverstellung und Netz für Gips. Die teleskopische Befestigung der Abdeckung ermöglicht den Ausgleich der Putzdicke und verlängert die Tiefe von 80 auf 130 mm.
- Caja de empotrar a pared en chapa galvanizada con tapa pintada en blanco, pies deslizantes para ajuste de altura y malla para yeso. La fijación telescópica de la cubierta permite la compensación del espesor del yeso, ampliando la profundidad de 80 a 130 mm.

Code	Height	Width	Depth	Price	Class	Packaging
200130	530-670 mm	500 mm	80-130 mm	116,00 €	NZ	1
200131	530-670 mm	700 mm	80-130 mm	134,81 €	NZ	1
200132	530-670 mm	850 mm	80-130 mm	146,30 €	NZ	1

**AC 820**


- **Cassetta a muro per collettori con altezza e profondità fisse.**
- *Wall hanging box for manifolds with fixed height and depth.*
- **Caisse murale suspendue pour collecteurs avec hauteur et profondeur fixes.**
- *Hängewandkasten mit fixer Höhe und Tiefe.*
- **Caja mural colgante para colectores de altura y profundidad fijas.**

Code	Height	Width	Depth	Price	Class	Packaging
540020	640 mm	450 mm	130 mm	170,00 €	NZ	1
540021	640 mm	530 mm	130 mm	175,00 €	NZ	1
540022	640 mm	830 mm	130 mm	225,00 €	NZ	1
540023	640 mm	1030 mm	130 mm	265,00 €	NZ	1

**AC 850**


- **Cassetta in plastica con fondo e kit di fissaggio per collettori complanari e componibili.**
- *Plastic cabinet with bottom and fastening kit for coplanar and modular manifolds.*
- **Cassette en plastique avec fond et kit de fixation pour collecteurs coplanaires et à éléments.**
- *Unterputz Verteilerschrank aus Kunststoff mit Boden und Fixierung-kit für komplanare und Einbau-Verteiler.*
- **Caja de plástico con fondo y kit de montaje para colectores coplanares y componibles.**

Code	Height	Width	Depth	Price	Class	Packaging
SAM-032	260 mm	320 mm	95 mm	25,52 €	NW	20
SAM-040	260 mm	400 mm	95 mm	28,21 €	NW	20
SAM-050	260 mm	500 mm	95 mm	31,34 €	NW	10
SAM-060	260 mm	600 mm	95 mm	35,82 €	NW	10

**AC 851**


- **Kit di fissaggio per collettori complanari e componibili in cassetta di plastica tipo AC 850.**
- *Kit for coplanar and modular manifolds fastening in plastic cabinet AC 850.*
- **Kit de fixation pour collecteurs coplanaires et à éléments dans la cassette en plastique AC 850.**
- *Fixierung-kit für komplanare und Einbau-Verteiler in Unterputz Verteilerschrank aus Kunststoff AC 850.*
- **Kit de montaje para colectores coplanares y componibles en caja de plástico tipo AC 850.**

Code	Manifolds type	Price	Class	Packaging
SAM-001	EASY•RADIANT / EASY•LOCK / BASIC series	11,42 €	NW	1

**AC 852**


- **Cassetta in plastica con fondo per collettori componibili e complanari (senza kit di fissaggio, da ordinare separatamente).**
- *Plastic cabinet with bottom for modular and coplanar manifolds (without fastening kit, to be ordered separately).*
- **Cassette en plastique avec fond pour collecteurs à éléments et coplanaires (sans kit de fixation, à commander séparément).**
- *Unterputz Verteilerschrank aus Kunststoff mit Boden für Einbau- und koplanare Verteiler (ohne Fixierung-kit, bitte bestellen getrennt).*
- **Caja de plástico con fondo para colectores componibles y coplanares (sin kit de montaje, para pedir separatamente).**

Code	Height	Width	Depth	Price	Class	Packaging
SAM-135	350 mm	350 mm	90 mm	33,18 €	NW	1
SAM-150	350 mm	500 mm	90 mm	42,02 €	NW	1
SAM-165	350 mm	650 mm	90 mm	55,54 €	NW	1
SAM-180	400 mm	800 mm	95 mm	75,68 €	NW	1

**AC 853**


- **Kit di fissaggio per collettori complanari e componibili in cassetta di plastica tipo AC 852.**
- *Kit for coplanar and modular manifolds fastening in plastic cabinet AC 852.*
- **Kit de fixation pour collecteurs coplanaires et à éléments dans la cassette en plastique AC 852.**
- *Fixierung-kit für komplanare und Einbau-Verteiler in Unterputz Verteilerschrank aus Kunststoff AC 852.*
- **Kit de montaje para colectores coplanares y componibles en caja de plástico de tipo AC 852.**

Code	Manifolds type	Price	Class	Packaging
SAM-011	CC 00	4,82 €	NW	1
SAM-010	EASY•RADIANT / EASY•LOCK / BASIC series	5,80 €	NW	1

# TERMINALS FOR MANIFOLDS

## AC 678



- Terminale orientabile per collettore con valvola di carico/scarico incorporata in ottone o plastica.
- Swiveling terminal for manifolds equipped with built-in brass or plastic filling/drainage valve.
- Partie terminale orientable pour collecteur avec robinet de remplissage/vidange incorporé en laiton ou en plastique.
- Drehbarer Verteilerendstück mit eingebautem Lade-/Entladeventil aus Messing oder Kunststoff.
- Terminal orientable para colector con válvula para la carga/descarga incorporada de latón o plástico.

Code	Size	Price	Class	Packaging
570225	1/2" F x 1" M x 1/2" F - BRASS	18,71 €	NJ	10 / 80
570225P	1/2" F x 1" M x 1/2" F - PLASTIC	15,13 €	NJ	10 / 80

## AC 630



- Terminale orientabile per collettore con rubinetto di scarico incorporato in ottone o plastica.
- Adjustable terminal for manifold with brass or plastic incorporated drainage valve.
- Terminal orientable pour le collecteur avec un robinet d'évacuation incorporé en laiton ou en plastique.
- Drehbarer Verteilerendstück mit eingebautem Entleerungshahn aus Messing oder Kunststoff.
- Terminal orientable para colector con llave de vaciado incorporada de latón o plástico.

Code	Size	Price	Class	Packaging
500255	1/2" F x 1" M - BRASS	15,29 €	NJ	10 / 80
500256	1/2" F x 1" M - PLASTIC	11,21 €	NJ	10 / 80

## AC 631



- Terminale orientabile per collettori.
- Adjustable terminal for manifolds.
- Terminal orientable pour collecteurs.
- Drehbarer Verteilerendstück.
- Terminal orientable para colectores.

Code	Size	Price	Class	Packaging
500257	1/2" F x 1" M x 1/2" F	8,27 €	NJ	20 / 80
500258	1/2" F x 1" M x 3/8" F	8,27 €	NJ	20 / 80

## AC 677



- Terminale orientabile per collettori a 3 attacchi.
- Swiveling terminal for manifolds with 3 connections.
- Partie terminale orientable pour collecteurs à 3 embouts.
- 3 Anschlüssen drehbarer Verteilerendstück.
- Terminal orientable para colectores con 3 ataques.

Code	Size	Price	Class	Packaging
570224	1" M - 3 x 1/2" F	10,92 €	NJ	20 / 160

## AC 657 N



- Terminale orientabile per collettore con rubinetto di scarico e valvola manuale di sfio incorporati.
- Swiveling terminal for header with incorporated drainage valve and manual vent valve.
- Terminal orientable pour collecteur avec robinet d'évacuation et purgeur d'air manuel incorporés.
- Verstellbares Verteiler-Endstück mit eingebautem Entleerungshahn und manueller Entlüftungsventil.
- Terminal orientable para colector completo de llave de descarga y válvula purgadora manual.

Code	Size	Price	Class	Packaging
506246	3/4" M	16,43 €	NJ	20 / 80
506235	1" M	14,77 €	NJ	20 / 80

## AC 650



- Valvola di carico/scarico con rubinetto orientabile in ottone o plastica.
- Filling/drainage valve with brass or plastic rotating cock.
- Vanne de remplissage/vidange avec robinet orientable en laiton ou en plastique.
- Drehbarer Lade-/Entladeventil aus Messing oder Kunststoff.
- Válvula para la carga/descarga con llave orientable de latón o plástico.

Code	Size	Price	Class	Packaging
501016	1/2" M - BRASS	8,96 €	NJ	25 / 200
500125	1/2" M - PLASTIC	4,87 €	NJ	35 / 280

# AIR VENT VALVES

## AC 625



- Valvola manuale di sfiato.
- Manual air vent valve.
- Purgeur d'air manuel.
- Manuelles Entlüftungsventil.
- Válvula purgadora manual.

Code	Size	Price	Class	Packaging
500675	3/8"	1,99 €	NJ	100 / 800
500674	1/2"	1,58 €	NJ	100 / 800

## AC 625 M



- Valvola manuale di sfiato.
- Manual air vent valve.
- Purgeur d'air manuel.
- Manuelles Entlüftungsventil.
- Válvula purgadora manual.

Code	Size	Price	Class	Packaging
500954M	1/4"	1,63 €	HA	100 / 400
500675M	3/8"	1,59 €	HA	100 / 400
500674M	1/2"	1,96 €	HA	100 / 400

## AC 620



- Valvola di sfiato aria automatica.
- Automatic air valve.
- Purgeur d'air automatique.
- Automatisches Entlüftungsventil.
- Válvula purgadora automática.

Code	Size	Price	Class	Packaging
501323	3/8"	7,80 €	NJ	15 / 120
501325	1/2"	7,62 €	NJ	15 / 120

## AC 621



- Valvola di ritegno per valvola di sfiato automatica.
- Check valve for automatic air valve.
- Clapet de retenue pour purgeur d'air automatique.
- Rückschlagventil für automatisches Entlüftungsventil.
- Válvula de retención para válvula purgadora automática.

Code	Size	Price	Class	Packaging
501327	1/2" M x 3/8" F	2,23 €	NJ	100 / 800
501329	1/2" M x 1/2" F	2,14 €	NJ	100 / 800

# BRACKETS

## AC 611



- Staffa doppia per collettori da barra e in acciaio inox.
- Double bracket for brass rod and stainless steel manifolds.
- Étrier double pour collecteurs de barre et en acier inox.
- Doppelter Wandelterung für Verteiler aus Messingstangen und Edelstahl.
- Soporte doble para colectores de barra de latón y acero inoxidable.

Code	OC distance	Depth	Manifolds type	Price	Class	Packaging
501359	250 mm	110 mm	3/4"	6,79 €	NJ	2 / 40
501218	250 mm	110 mm	1"	6,50 €	NJ	2 / 40
501360	250 mm	110 mm	1"1/4	6,50 €	NJ	2 / 30

## AC 610



- Staffa doppia per collettori da barra e in acciaio inox.
- Double bracket for brass rod and stainless steel manifolds.
- Étrier double pour collecteurs de barre et en acier inox.
- Doppelter Wandelterung für Verteiler aus Messingstangen und Edelstahl.
- Soporte doble para colectores de barra de latón y acero inoxidable.

Code	OC distance	Depth	Manifolds type	Price	Class	Packaging
501019	200 mm	110 mm	3/4"	5,95 €	NJ	2 / 70
501098	200 mm	110 mm	1"	5,95 €	NJ	2 / 40
501020	200 mm	110 mm	1"1/4	5,95 €	NJ	2 / 60
501019P80	200 mm	80 mm	3/4"	5,95 €	NJ	2 / 70
501098P80	200 mm	80 mm	1"	5,95 €	NJ	2 / 40

## AC 689



- Staffa doppia regolabile in plastica per collettori da barra e in acciaio inox.
- Double adjustable plastic bracket for brass rod and stainless steel manifolds.
- Étrier double réglable en plastique pour collecteurs de barre et en acier inox.
- Doppelter regelbarer Wandelterung aus Kunststoff für Verteiler aus Messingstangen und Edelstahl.
- Soporte doble ajustable de plástico para colectores de barra de latón y acero inoxidable.

Code	OC distance	Depth	Manifolds type	Price	Class	Packaging
501111	200-250 mm	80 mm	1"	10,40 €	NJ	2 / 40

## AC 673



- Staffa doppia per collettori in plastica serie CP 001.
- Double bracket for plastic manifolds CP 001 series.
- Étrier double pour collecteurs en plastique série CP 001.
- Doppelt Wandelterung für Kunststoffverteiler Serie CP 001.
- Soporte doble para colectores en plástico serie CP 001.

Code	OC distance	Depth	Manifolds type	Price	Class	Packaging
220080	200 mm	95 mm	CP 001	24,60 €	NV	1

**AC 609**


- Staffa singola per collettori da barra e in acciaio inox.
- Single bracket for brass rod and stainless steel manifolds.
- Étrier simple pour collecteurs de barre et en acier inox.
- Einzel Wandhalterung für Verteiler aus Messingstangen und Edelstahl.
- Soporte simple para colectores de barra de latón y acero inoxidable.

Code	Manifolds type	Price	Class	Packaging
500901	3/4"	3,08 €	NJ	2 / 140
500902	1"	3,08 €	NJ	80
500903	1"1/4	3,08 €	NJ	2 / 140

**AC 629**


- Staffa singola per collettori da barra e in acciaio inox.
- Single bracket for brass rod and stainless steel manifolds.
- Étrier simple pour collecteurs de barre et en acier inox.
- Einzel Wandhalterung für Verteiler aus Messingstangen und Edelstahl.
- Soporte simple para colectores de barra de latón y acero inoxidable.

Code	Manifolds type	Price	Class	Packaging
500935	3/4"	3,47 €	NJ	2 / 70
500936	1"	3,47 €	NJ	2 / 100
500641	1"1/4	3,47 €	NJ	2 / 150

**AC 609 (1"1/2)**


- Staffa singola per collettori da barra.
- Single bracket for brass rod manifolds.
- Étrier simple pour collecteurs de barre.
- Einzel Wandhalterung für Verteiler aus Messingstangen.
- Soporte simple para colectores de barra de latón.

Code	Manifolds type	Price	Class	Packaging
506195	1"1/2	14,32 €	NJ	2 / 70

**AC 629 (1"1/2)**


- Staffa singola per collettori da barra.
- Single bracket for brass rod manifolds.
- Étrier simple pour collecteurs de barre.
- Einzel Wandhalterung für Verteiler aus Messingstangen.
- Soporte simple para colectores de barra de latón.

Code	Manifolds type	Price	Class	Packaging
506196	1"1/2	15,12 €	NJ	2 / 50

# BYPASS VALVES

## AC 665



- Valvola di bypass differenziale.
- Bypass differential valve.
- Vanne de bypass différentiel.
- Differenziales Bypass-Ventil.
- Válvula de bypass de presión diferencial.

Code	Range	OC distance	Depth	Manifolds type	Price	Class	Packaging
500064	0,2-0,6 bar	200 mm	110 mm	1"	22,94 €	NJ	5 / 40
500064P80	0,2-0,6 bar	200 mm	80 mm	1"	22,94 €	NJ	5 / 40

## AC 666



- Valvola di bypass differenziale con terminali per collettore.
- Differential bypass valve with terminals for manifold.
- Vanne de bypass différentiel avec terminaux pour collecteur.
- Differenziales Bypass-Ventil mit Verteileranschlüssen.
- Válvula de bypass de presión diferencial con terminales para colector.

Code	Range	OC distance	Depth	Manifolds type	Price	Class	Packaging
500126	0,2-0,6 bar	200 mm	110 mm	1"	39,76 €	NJ	4 / 32
500126P80	0,2-0,6 bar	200 mm	80 mm	1"	39,76 €	NJ	4 / 32

## AC 667



- Valvola di bypass differenziale con bocchettoni.
- Differential bypass valve with nozzles.
- Vanne de bypass différentielle avec embouts.
- Differenziales Bypass-Ventil mit Stutzen.
- Válvula de bypass de presión diferencial con racores.

Code	Range	OC distance	Accessories	Depth	Price	Class	Packaging
500127P80	0,2-0,6 bar	200 mm		80 mm	51,45 €	NJ	2 / 16
500127	0,2-0,6 bar	200 mm		110 mm	51,45 €	NJ	2 / 16
500127GP80	0,2-0,6 bar	200 mm	1"1/4 swivel	80 mm	58,71 €	NJ	2 / 16
500127G	0,2-0,6 bar	200 mm	1"1/4 swivel	110 mm	58,71 €	NJ	2 / 16
501263P80	0,2-0,6 bar	200 mm	Thermometer	80 mm	60,31 €	NJ	1 / 3
501263	0,2-0,6 bar	200 mm	Thermometer	110 mm	60,31 €	NJ	2 / 16
501263GP80	0,2-0,6 bar	200 mm	Thermometer - 1"1/4 swivel	80 mm	67,59 €	NJ	2 / 16
501263G	0,2-0,6 bar	200 mm	Thermometer - 1"1/4 swivel	110 mm	67,59 €	NJ	2 / 16

## AC 668



- Valvola di bypass differenziale con bocchettoni ed accessori.
- Differential bypass valve with nozzles and accessories.
- Vanne de bypass différentielle avec embouts et accessoires.
- Differenziales Bypass-Ventil mit Stutzen und Zubehör.
- Válvula de bypass de presión diferencial con racores y accesorios.

Code	Range	OC distance	Accessories	Depth	Price	Class	Packaging
500128	0,2-0,6 bar	200 mm		110 mm	100,04 €	NJ	1 / 6
500128G	0,2-0,6 bar	200 mm	1"1/4 swivel	110 mm	107,28 €	NJ	1

**AC 681**


- **Valvola di bypass differenziale con terminali per collettore, valvola manuale di sfiato e scarico orientabile in ottone o plastica.**
- *Bypass differential valve with manifold terminals, manual air vent valve and brass or plastic adjustable drainage tap.*
- **Vanne de bypass différentielle avec terminaux pour collecteur, purgeur d'air manuel et évacuation orientable en laiton ou en plastique.**
- *Differenziales Bypass-Ventil mit Verteileranschlüssen, manuelles Entlüftungsventil und Drehbarer Entleerungshahn aus Messing oder Kunststoff.*
- **Válvula de bypass de presión diferencial con terminales para colector, válvula purgadora manual y descarga orientable de latón o plástico.**

Code	Range	OC distance	Accessories	Depth	Price	Class	Packaging
570227P80	0,2-0,6 bar	200 mm	Brass	80 mm	53,49 €	NJ	10 / 80
570227PP80	0,2-0,6 bar	200 mm	Plastic	80 mm	49,91 €	NJ	10 / 80
570227	0,2-0,6 bar	200 mm	Brass	110 mm	53,49 €	NJ	10 / 80
570227P	0,2-0,6 bar	200 mm	Plastic	110 mm	49,91 €	NJ	10 / 80

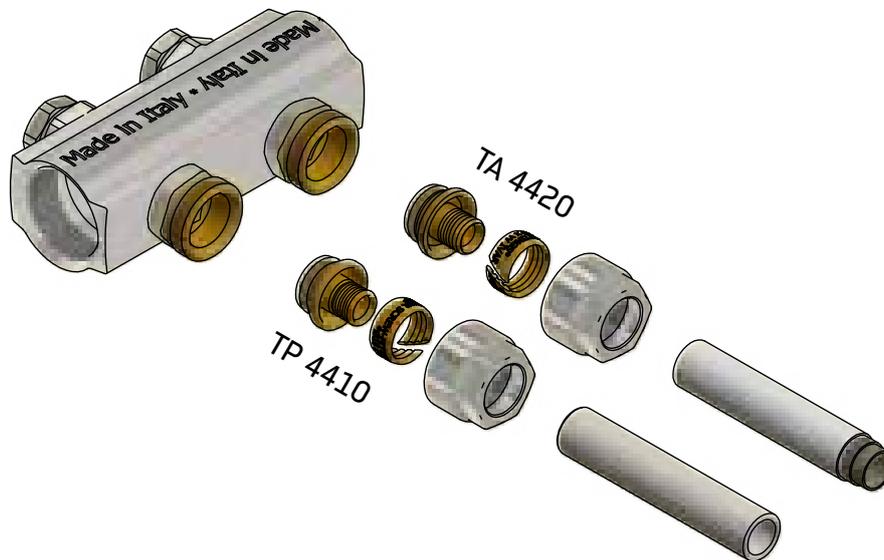
**AC 679**


- **Valvola di bypass differenziale con terminali per collettore e accessori con scarico orientabile in ottone o plastica.**
- *Bypass differential valve with manifold terminals and accessories with brass or plastic adjustable drainage tap.*
- **Vanne de bypass différentielle avec terminaux pour collecteur et accessoires avec évacuation orientable en laiton ou en plastique.**
- *Differenziales Bypass-Ventil mit Verteileranschlüssen und Zubehör mit Drehbarer Entleerungshahn aus Messing oder Kunststoff.*
- **Válvula de bypass de presión diferencial con terminales para colector y accesorios con descarga orientable de latón o plástico.**

Code	Range	OC distance	Accessories	Depth	Price	Class	Packaging
570226P80	0,2-0,6 bar	200 mm	Brass	80 mm	61,17 €	NJ	10 / 80
570226PP80	0,2-0,6 bar	200 mm	Plastic	80 mm	57,59 €	NJ	10 / 80
570226	0,2-0,6 bar	200 mm	Brass	110 mm	61,17 €	NJ	3 / 24
570226P	0,2-0,6 bar	200 mm	Plastic	110 mm	57,59 €	NJ	3 / 24

# FITTINGS AND PLUGS

Suitable fittings for manifolds (3/4" - 1" - 1"1/4) with EUROKONUS connection



## FOCUS: splitter fitting AC 647

The splitter fitting is very useful to obtain two outlets from a single outlet of the manifold to connect two different circuits. For example, it is frequently used in plaster fibre ceiling and underfloor radiant systems, with low diameter pipes and low flow rates. In these cases there is flexible use of all manifold outlets, with added cost benefits. Lastly, the splitter fitting can also be used to obtain an extra outlet on the manifold when previously not envisaged, without the need to replace the manifold itself with another version fitted with an extra outlet (an operation often expensive and also not always possible given that it may require the replacement of the manifold housing).

### AC 647



- Raccordo sdoppiatore EUROK.
- Flow splitter fitting EUROK.
- Raccord dédoubleur EUROK.
- Verteiler-Y-Stück EUROK.
- Racor doble EUROK.

Code	Size	OC distance	Color	Price	Class	Packaging
506138	EUROK	36 mm	■	9,82 €	NJ	60

**TA 4420**


20 Nm ≤ T ≤ 30 Nm



- **Raccordo EUROK per tubo multistrato e in polietilene.**
- *EUROK fitting for multilayer and polyethylene pipe.*
- **Raccord EUROK pour tube multicouche et en polyéthylène.**
- *EUROK-Verschraubung für Verbund- und für Polyäthylen-Rohr.*
- **Conexión EUROK para tubo multicapa y de polietileno.**

**FOCUS: Fittings for multilayer and PEX pipe**

See page 151.

Code	Size	Color	Price	Class	Packaging
506061	EUROK x 12/1,8	■	2,98 €	JA	40 / 320
500683	EUROK x 14/2	■	2,98 €	JA	40 / 320
500400	EUROK x 15/1,5	■	3,02 €	JA	40 / 320
500684	EUROK x 16/2	■	2,98 €	JA	40 / 320
500579	EUROK x 16/2,25	■	2,98 €	JA	40 / 320
506040	EUROK x 16,2/2,6	■	2,98 €	JA	40 / 320
500012	EUROK x 17/2	■	3,19 €	JA	40 / 320
500685	EUROK x 18/2	■	3,19 €	JA	40 / 320
500754	EUROK x 18/2,5	■	3,19 €	JA	40 / 320
500914	EUROK x 20/2	■	3,33 €	JA	40 / 320
500009	EUROK x 20/2,25	■	3,50 €	JA	40 / 320
501010	EUROK x 20/2,5	■	3,33 €	JA	40 / 320
506295	EUROK x 20/2,9	■	4,55 €	JA	40 / 320

**TP 4410**


30 Nm ≤ T ≤ 40 Nm

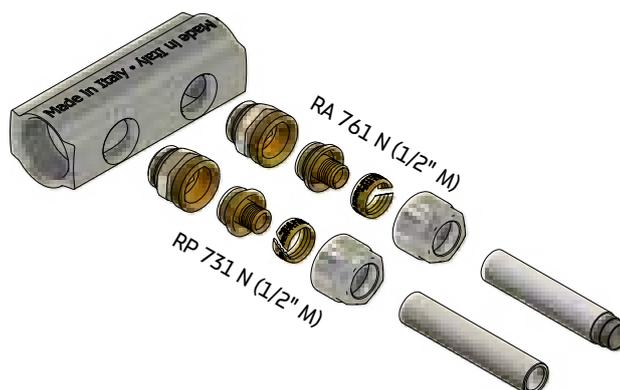


- **Raccordo EUROK per tubo in polietilene.**
- *EUROK fitting for polyethylene pipe.*
- **Raccord EUROK pour tube en polyéthylène.**
- *EUROK-Verschraubung für Polyäthylen-Rohr.*
- **Conexión EUROK para tubo de polietileno.**

Code	Size	Color	Price	Class	Packaging
500590	EUROK x 12/1	■	2,79 €	JA	40 / 320
520041	EUROK x 12/2	■	2,75 €	JA	40 / 320
500679	EUROK x 14/2	■	2,75 €	JA	40 / 320
500148	EUROK x 15/1,7	■	2,98 €	JA	40 / 320
500769	EUROK x 15/2,5	■	2,86 €	JA	40 / 320
500591	EUROK x 16/1,5	■	2,69 €	JA	40 / 320
500680	EUROK x 16/2	■	2,69 €	JA	40 / 320
500681	EUROK x 16/2,2	■	2,69 €	JA	40 / 320
500682	EUROK x 17/2	■	2,86 €	JA	40 / 320
500145	EUROK x 18/1,8	■	2,86 €	JA	40 / 320
500650	EUROK x 18/2	■	3,19 €	JA	40 / 320
506020	EUROK x 18/2,5	■	2,86 €	JA	40 / 320
500651	EUROK x 20/2	■	3,19 €	JA	40 / 320
500649	EUROK x 20/2,8	■	3,08 €	JA	40 / 320
506200	EUROK x 20/3,4	■	3,08 €	JA	40 / 320
500753	EUROK x 21/2,5	■	3,47 €	JA	40 / 320

- **T = Coppia max. di serraggio.**
- *T = Max. tightening torque.*
- **T = Couple de serrage max.**
- *T = Max. Anzugsdrehmoment.*
- **T = Par de apriete max.**

Suitable fittings for manifolds (3/4" - 1" - 1"1/4) with 1/2" F connection



RA 761 N



- Raccordo per tubo multistrato EUROK x 1/2" M.
- Fitting for multilayer pipe EUROK x 1/2" M.
- Raccord pour tube multicouches EUROK x 1/2" M.
- EUROK x 1/2" AG Verschraubung für Verbundrohr.
- Racor de compresión para tubo multicapa EUROK x 1/2" M.

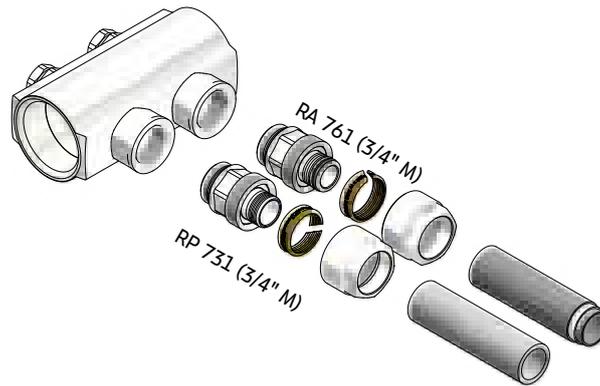
Code	Size	Color	Price	Class	Packaging
570000N	1/2" M x 14/2	■	5,11 €	LA	50 / 200
570001N	1/2" M x 15/1,5	■	5,11 €	LA	50 / 200
570002N	1/2" M x 16 /2	■	5,11 €	LA	50 / 200
570003N	1/2" M x 16/2,25	■	5,11 €	LA	50 / 200
570004N	1/2" M x 17/2	■	5,23 €	LA	50 / 200
570005N	1/2" M x 18/2	■	5,23 €	LA	50 / 200
570006N	1/2" M x 18/2,5	■	5,23 €	LA	50 / 200
570007N	1/2" M x 20/2	■	5,39 €	LA	50 / 200
570008N	1/2" M x 20/2,25	■	5,39 €	LA	50 / 200
570009N	1/2" M x 20/2,5	■	5,39 €	LA	25 / 100

RP 731 N



- Raccordo per tubo polietilene EUROK x 1/2" M.
- Fitting for polyethylene pipe EUROK x 1/2" M.
- Raccord pour tube polyéthylène EUROK x 1/2" M.
- EUROK x 1/2" AG Verschraubung für Polyäthylen-Rohr.
- Racor de compresión para tubo de polietileno EUROK x 1/2" M.

Code	Size	Color	Price	Class	Packaging
570020N	1/2" M x 12/1	■	4,91 €	LA	50 / 200
570021N	1/2" M x 12/2	■	4,91 €	LA	50 / 200
570022N	1/2" M x 14/2	■	4,91 €	LA	50 / 200
570023N	1/2 M x 15/1,7	■	4,91 €	LA	50 / 200
570024N	1/2" M x 15/2,5	■	4,91 €	LA	50 / 200
570025N	1/2" M x 16/1,5	■	4,91 €	LA	50 / 200
570026N	1/2" M x 16/2	■	4,91 €	LA	50 / 200
570027N	1/2" M x 16/2,2	■	4,91 €	LA	50 / 200
570028N	1/2" M x 17/2	■	4,89 €	LA	50 / 200
570029N	1/2" M x 18/1,8	■	4,89 €	LA	50 / 200
570030N	1/2" M x 18/2	■	4,89 €	LA	50 / 200
570031N	1/2" M x 20/2	■	5,11 €	LA	50 / 200
570032N	1/2" M x 20/2,8	■	5,11 €	LA	50 / 200
570033N	1/2" M x 21/2,5	■	5,30 €	LA	50 / 200

**Suitable fittings for manifolds (1"1/2) with 3/4"F connection**

**RA 761**


- Raccordo a stringere diritto maschio per tubo multistrato.
- Compression straight male fitting for multilayer pipe.
- Raccord à serrage droit mâle pour tube multicouche.
- Durchgang AG Pressanschluss für Verbundrohr.
- Racor de compresión recto macho para tubo multicapa.

Code	Size	Color	Price	Class	Packaging
500043	3/4" M x 20/2	Yellow	5,83 €	LA	25 / 100
501361	3/4" M x 25/2,5	Yellow	8,86 €	LA	25 / 200
500122	3/4" M x 25/3	Yellow	8,86 €	LA	25 / 100
501084	3/4" M x 26/3	Yellow	8,86 €	LA	25 / 100
501497	3/4" M x 32/3	Yellow	14,00 €	LA	15 / 120
500043N	3/4" M x 20/2	Grey	5,97 €	LA	25 / 200
501361N	3/4" M x 25/2,5	Grey	9,11 €	LA	25 / 200
500122N	3/4" M x 25/3	Grey	9,11 €	LA	25 / 100
501084N	3/4" M x 26/3	Grey	9,11 €	LA	25 / 100
501497N	3/4" M x 32/3	Grey	14,42 €	LA	15 / 120

**RP 731**


- Raccordo a stringere diritto maschio per tubo in polietilene.
- Compression straight male fitting for polyethylene pipe.
- Raccord à serrage droit mâle pour tube en polyéthylène.
- Durchgang AG Pressanschluss für Polyäthylenrohr.
- Racor de compresión recto macho para tubo de polietileno.

Code	Size	Color	Price	Class	Packaging
506209	3/4" M x 20/2	Yellow	5,59 €	LA	25 / 200
501051	3/4" M x 20/2,8	Yellow	5,59 €	LA	25 / 200
501054	3/4" M x 25/2,3	Yellow	8,89 €	LA	25 / 100
550042	3/4" M x 25/2,5	Yellow	8,89 €	LA	25 / 200
501052	3/4" M x 25/3,5	Yellow	8,89 €	LA	20 / 160
501498	3/4" M x 32/4,4	Yellow	13,50 €	LA	15 / 120
506209N	3/4" M x 20/2,3	Grey	5,76 €	LA	25 / 200
501051N	3/4" M x 20/2,8	Grey	5,76 €	LA	25 / 200
501054N	3/4" M x 25/2,3	Grey	9,16 €	LA	25 / 100
550042N	3/4" M x 25/2,5	Grey	9,16 €	LA	25 / 200
501052N	3/4" M x 25/3,5	Grey	9,16 €	LA	25 / 100
501498N	3/4" M x 32/4,4	Grey	13,91 €	LA	15 / 120

### AC 600



- Tappo maschio.
- Male plug.
- Bouchon mâle.
- AG Verschluss.
- Tapón macho.

Code	Size	Color	Price	Class	Packaging
590082	1/4" M		1,95 €	NJ	150 / 600
550084	3/8" M		1,10 €	NJ	250 / 1000
501108	1/2" M		1,10 €	NJ	200 / 800
550009	3/4" M		1,96 €	NJ	50 / 400
501104	1" M		1,99 €	NJ	50 / 400
500904	1"1/4 M		4,18 €	NJ	20 / 160
506017	1"1/2 M		4,94 €	NJ	20 / 160
550085	3/8" M		1,12 €	NJ	250 / 1000
550086	1/2" M		1,12 €	NJ	200 / 800
550087	3/4" M		2,03 €	NJ	50 / 400
501501	1" M		2,25 €	NJ	50 / 400
500905	1"1/4 M		4,23 €	NJ	35 / 140

### AC 601



- Tappo femmina.
- Female plug.
- Bouchon femelle.
- IG Verschluss.
- Tapón hembra.

Code	Size	Accessories	Color	Price	Class	Packaging
550016	1/2"	1 gasket		1,67 €	NJ	50 / 400
500022	3/4"	2 gaskets		1,85 €	NJ	100 / 400
500625	1"	1 gasket		3,20 €	NJ	35 / 280
550016N	1/2"	1 gasket		1,67 €	NJ	50 / 400
550090	3/4"	2 gaskets		1,92 €	NJ	100 / 400
500625N	1"	1 gasket		3,31 €	NJ	35 / 280

### AC 601 K



- Kit tappo femmina con adattatore per tenuta piatta.
- Female plug kit with adaptor for flat seal.
- Kit bouchon femelle avec adaptateur pour tenue plate.
- Verschluss Set mit Innengewinde und Flachdichtung Adapter.
- Kit tapón hembra con adaptador para junta plana.

Code	Size	Accessories	Color	Price	Class	Packaging
506206	EUROK	2 gaskets		3,05 €	NJ	50 / 400
506206N	EUROK	2 gaskets		3,15 €	NJ	50 / 400

**AC 602**


- **Riduzione maschio - femmina.**
- *Male - female reducing fitting.*
- **Réduction mâle - femelle.**
- *AG - IG Reduziermuffe.*
- **Reducción macho - hembra.**

Code	Size	Color	Price	Class	Packaging
550093	1/2" M x 3/8" F	■	1,47 €	NJ	200 / 800
550094	3/4" M x 3/8" F	■	2,27 €	NJ	50 / 200
550095	3/4" M x 1/2" F	■	1,95 €	NJ	100 / 400
550091	1" M x 3/8" F	■	2,77 €	NJ	50 / 400
501103	1" M x 1/2" F	■	2,27 €	NJ	50 / 400
501102	1" M x 3/4" F	■	2,17 €	NJ	50 / 400
500906	1"1/4 M x 1/2" F	■	5,29 €	NJ	25 / 100
500908	1"1/4 M x 3/4" F	■	4,94 €	NJ	35 / 140
500910	1"1/4 M x 1" F	■	3,87 €	NJ	35 / 140
506018	1"1/2 M x 1" F	■	6,55 €	NJ	20 / 160
500280	1/2" M x 3/8" F	■	1,48 €	NJ	200 / 800
501099	3/4" M x 3/8" F	■	2,38 €	NJ	50 / 200
550028	3/4" M x 1/2" F	■	1,99 €	NJ	100 / 400
550092	1" M x 3/8" F	■	2,94 €	NJ	50 / 400
500670	1" M x 1/2" F	■	2,38 €	NJ	50 / 400
501509	1" M x 3/4" F	■	2,27 €	NJ	50 / 400
500907	1"1/4 M x 1/2" F	■	5,47 €	NJ	25 / 200
500909	1"1/4 M x 3/4" F	■	5,11 €	NJ	35 / 140
500911	1"1/4 M x 1" F	■	3,92 €	NJ	35 / 140

**AC 624**


- **Riduzione femmina - femmina.**
- *Female - female reducing fitting.*
- **Réduction femelle - femelle.**
- *Reduzierstück Innengewinde - Innengewinde*
- **Reducción hembra - hembra.**

Code	Size	Color	Price	Class	Packaging
501619	3/4" F x 3/8" F	■	2,35 €	NJ	100 / 800
501618	3/4" F x 1/2" F	■	2,35 €	NJ	100 / 400
501620	1" F x 1/2" F	■	3,10 €	NJ	50 / 400
501621	1" F x 3/4" F	■	3,10 €	NJ	50 / 400
501619N	3/4" F x 3/8" F	■	2,38 €	NJ	100 / 800
501618N	3/4" F x 1/2" F	■	2,38 €	NJ	100 / 400
501620N	1" F x 1/2" F	■	3,20 €	NJ	50 / 400
501621N	1" F x 3/4" F	■	3,20 €	NJ	50 / 400

■ AC 4612



- Sede per vitone di comando ed intercettazione.
- Fitting for command and isolation insert.
- Raccord pour insert de commande et d'interception.
- Verbinder für Bedienungs- und Steuervorrichtung.
- Montaje para tornillo de mando y interceptación.

Code	Size	Manifolds type	Color	Price	Class	Packaging
501363N	1/2" M x EUROK	1"	■	1,92 €	NJ	50 / 400
501368N	1/2" M x EUROK	1"1/4	■	2,60 €	NJ	50 / 400

■ AC 603



- Nipplo maschio - maschio.
- Male - male nipple.
- Nipple mâle - mâle.
- AG - AG Anschlußstück.
- Entrerrosca macho - macho.

Code	Size	Color	Price	Class	Packaging
550099	1/2" M O-ring x 1/2" M O-ring	■	1,88 €	NJ	100 / 400
550098	3/4" M O-ring x 3/4" M O-ring	■	2,82 €	NJ	50 / 200
501101	1" M O-ring x 1" M O-ring	■	3,89 €	NJ	50 / 200
500919	1"1/4 M O-ring x 1" M O-ring	■	8,14 €	NJ	25 / 100
500912	1"1/4 M O-ring x 1"1/4 M O-ring	■	5,29 €	NJ	25 / 100
550097	1/2" M O-ring x 1/2" M O-ring	■	1,91 €	NJ	100 / 400
550096	3/4" M O-ring x 3/4" M O-ring	■	2,87 €	NJ	50 / 200
500699	1" M O-ring x 1" M O-ring	■	3,99 €	NJ	50 / 200
500919N	1"1/4 M O-ring x 1" M O-ring	■	8,29 €	NJ	25 / 100
500913	1"1/4 M O-ring x 1"1/4 M O-ring	■	5,47 €	NJ	25 / 100

■ AC 606



- Nipplo girevole maschio - maschio.
- Swivelling male - male nipple.
- Nipple pivotant mâle - mâle.
- AG - AG drehbarer Nippel.
- Entrerrosca giratoria macho - macho.

Code	Size	Color	Price	Class	Packaging
500386	3/4" M O-ring x 3/4" M O-ring	■	9,04 €	NJ	30 / 120
500357	3/4" M O-ring x 1" M O-ring	■	7,00 €	NJ	30 / 120
500063	1" M O-ring x 1" M O-ring	■	8,09 €	NJ	20 / 80
500387	1"1/4 M O-ring x 1"1/4 M O-ring	■	14,58 €	NJ	10 / 40
500386N	3/4" M O-ring x 3/4" M O-ring	■	9,35 €	NJ	30 / 120
500357N	3/4" M O-ring x 1" M O-ring	■	7,32 €	NJ	30 / 120
500070	1" M O-ring x 1" M O-ring	■	8,36 €	NJ	20 / 80
500387N	1"1/4 M O-ring x 1"1/4 M O-ring	■	15,31 €	NJ	10 / 40

**AC 605**


- **Raccordo eccentrico.**
- *Cam connector.*
- **Raccord excentrique.**
- *Excenter Anschluß IG.*
- **Racor excéntrico.**

Code	Size	Color	Price	Class	Packaging
502230N	1"	■	17,29 €	NJ	6 / 48

**AC 627**


- **Bocchettone ridotto girevole a tenuta morbida.**
- *Reduced soft seal fitting.*
- **Embout à étanchéité souple réduite.**
- *Reduziert Selbstdichtendsutzen.*
- **Manguito de unión reducido con junta blanda.**

Code	Size	Color	Price	Class	Packaging
550551	3/4" F x 1"1/4 F	■	11,23 €	NJ	10 / 80
550552	1" F x 1"1/4 F	■	11,13 €	NJ	10 / 80
550551N	3/4" F x 1"1/4 F	■	11,59 €	NJ	10 / 80
550552N	1" F x 1"1/4" F	■	11,53 €	NJ	10 / 80

**AC 4615 N**


- **Raccordo portatermometro per derivazioni.**
- *Thermometer fitting for junctions.*
- **Raccord porte-thermomètre pour dériviations.**
- *Anschlusstück mit Thermometer.*
- **Racor con termómetro para derivaciones.**

Code	Size	Color	Price	Class	Packaging
500804	EUROK	■	14,07 €	NJ	10 / 80

**AC 617**


- **Termometro con pozzetto.**
- *Thermometer with pocket.*
- **Thermomètre avec regard.**
- *Thermometer mit Tauchhülse.*
- **Termómetro con termopozo.**

Code	Size	Price	Class	Packaging
500071	3/8"	9,27 €	NJ	20 / 160
500072	1/2"	10,61 €	NJ	20 / 160

# COMPLEMENTARY ITEMS



## FOCUS: AQUASTOP

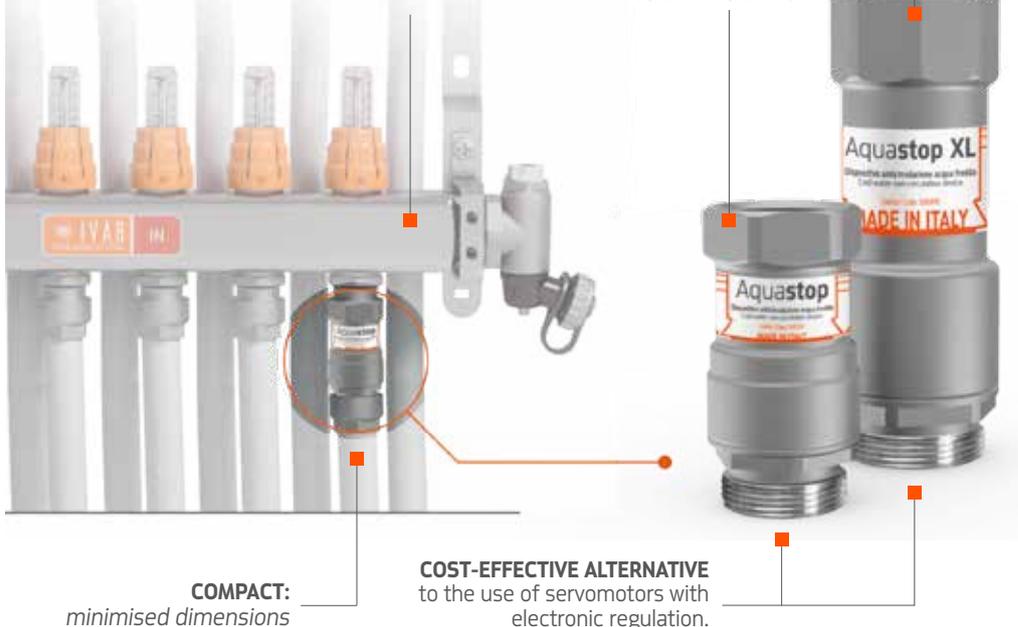
In mixed systems with radiators and underfloor heating and cooling, Aquastop mechanically prevents cold water from entering the circuit on which it is installed, without the use of servomotors or electronic controls.

The device contains a thermostat: when the water temperature is over 19 °C, i.e. during the winter heating phase, it maintains an open passage; when, on the other hand, the temperature is below 19 °C, i.e. during the summer cooling phase, the thermostat retracts and prevents cold water from reaching the utilities. There are zones of the radiant system which are particularly subject to the formation of surface condensation during the summer cooling phase, such as bathrooms or other areas without suitable air treatment (exchange/ventilation). Similarly, in summer, radiators and towel rails cannot be fed with cold water. In all these cases, Aquastop prevents the formation of condensation in a simple and economical manner.

Aquastop XL has the same operating principle as Aquastop, with the advantage of being able to handle larger flow rates, thanks to its 1" connection.

On circuits for radiators and designer heating units, it **PREVENTS COLD WATER FROM CIRCULATING INSIDE THE TERMINAL UNITS** which would otherwise drip condensation.

Available in the following versions:  
**G 3/4" F x EUROK,**  
**G 1" F x G 1" M.**



**COMPACT:**  
*minimised dimensions*

**COST-EFFECTIVE ALTERNATIVE**  
 to the use of servomotors with  
 electronic regulation.

### AQUASTOP



- Dispositivo anticircolazione dell'acqua fredda.
- Cold water non-circulation device.
- Dispositif d'anti-circulation eau froide.
- Ventil zur Verhinderung des Kaltwasserumlaufs.
- Dispositivo anticirculación del agua fría.

Code	Size	Range	Color	Price	Class	Packaging
500522	3/4" F x EUROK	≤19° C	■	41,70 €	NJ	10 / 80

### AQUASTOP XL



- Dispositivo anticircolazione dell'acqua fredda.
- Cold water non-circulation device.
- Dispositif d'anti-circulation eau froide.
- Ventil zur Verhinderung des Kaltwasserumlaufs.
- Dispositivo anticirculación del agua fría.

Code	Size	Range	Color	Price	Class	Packaging
500495	G 1" F x G 1" M	≤19° C	■	103,46 €	NJ	10 / 40

**FLC 15**


- Flussmetro.
- Flow meter.
- Fluxmètre.
- Durchflussmesser.
- Fluxímetro.

Code	Size	Range	Color	Price	Class	Packaging
500867	EUROK	1-4 l/min	■	10,53 €	NJ	20 / 80

**AC 674**


- Misuratore/regolatore di portata FLUXER con memoria di posizione.
- Flow meter/adjuster FLUXER with position memory.
- Débit-mètre/régulateur FLUXER avec mémoire de position.
- Durchflussmengenmesser FLUXER mit Positionsspeicherung.
- Medidor/regulador de caudal FLUXER con memoria de posición.

Code	Range	Color	Price	Class	Packaging
506204	0-5 l/min	■	9,62 €	NJ	100
506168	0-2,5 l/min	■	9,62 €	NJ	100

**AC 4648**


- Sede per misuratore/regolatore di portata FLUXER (0-5 l/min).
- Fitting for flow meter/adjuster FLUXER (0-5 l/min).
- Raccord pour débit-mètre/régulateur FLUXER (0-5 l/min).
- Anschlußnippel für Durchflussmengenmesser FLUXER (0-5 l/min).
- Montaje para medidor/regulador de caudal FLUXER (0-5 l/min).

Code	Size	Manifolds type	Color	Price	Class	Packaging
501296N	1/2" M x EUROK	1"	■	3,14 €	NJ	50 / 200
501297N	1/2" M x EUROK	1"1/4	■	3,14 €	NJ	50 / 400

**VDC 31**


- Vitone di bilanciamento a doppia regolazione micrometrica per collettori da barra in ottone.
- Balancing insert with double micrometrical adjustment for brass-rod manifolds.
- Insert d'équilibrage à double réglage micrométrique pour collecteurs de barre en laiton.
- Ausgleicherteil mit doppelter Feineinstellung für Verteiler aus Messingstangen.
- Tornillo de balanceamento con doble ajuste micrométrico para colectores de barra de latón.

Code	Color	Price	Class	Packaging
550044N	■	5,57 €	NJ	50 / 400

**VDC 31 PL**


- Vitone in plastica di bilanciamento a doppia regolazione micrometrica per collettori in acciaio inox.
- Plastic balancing insert with double micrometrical adjustment for stainless steel manifolds.
- Insert d'équilibrage à double réglage micrométrique en plastique pour collecteurs en acier inox.
- Ausgleicherteil mit doppelter Feineinstellung aus Kunststoff für Edelstahl-Verteiler.
- Tornillo de balanceamento con doble ajuste micrométrico de plástico para colectores de acero inoxidable.

Code	Color	Price	Class	Packaging
550044NPL	■	5,10 €	NJ	50 / 400

**AGE 05**


- Tappo con guarnizione per collettori con detentori a doppia regolazione micrometrica.
- Plug with gasket for manifolds with double-micrometric-adjustment lockshields.
- Bouchon avec joint pour collecteurs avec inserts à double réglage micrométrique.
- Verschluss mit Dichtung für Verteiler mit doppelteinstellbaren StellbarenRücklaufverschraubungen.
- Tapón con junta para colectores con detentores de doble regulación micrométrica.

Code	Color	Price	Class	Packaging
500056	■	0,68 €	HA	200 / 1600

### AC 4612



- Sede per vitone di comando ed intercettazione.
- Fitting for command and isolation insert.
- Raccord pour insert de commande et d'interception.
- Verbinder für Bedienungs- und Steuervorrichtung.
- Montaje para tornillo de mando y interceptación.

Code	Size	Manifolds type	Color	Price	Class	Packaging
501363N	1/2" M x EUROK	1"	■	1,92 €	NJ	50 / 400
501368N	1/2" M x EUROK	1"1/4	■	2,60 €	NJ	50 / 400

### VTC 30



- Vitone di comando ed intercettazione per collettori da barra in ottone.
- Control and isolation screw for brass-rod manifolds.
- Insert de commande et d'interception pour collecteurs de barre en laiton.
- Bedienungs- und Steuereinsatz für Verteiler aus Messingstangen.
- Tornillo de mando y interceptación para colectores de barra de latón.

Code	Price	Class	Packaging
500920	6,81 €	NJ	50 / 200

### VTC 30 PL



- Vitone in plastica di comando ed intercettazione per collettori in acciaio inox.
- Control and isolation plastic screw for stainless steel manifolds.
- Insert de commande et d'interception en plastique pour collecteurs en acier inox.
- Bedienungs- und Steuereinsatz aus Kunststoff für Edelstahl-Verteiler.
- Tornillo de mando y interceptación de plástico para colectores de acero inoxidable.

Code	Price	Class	Packaging
500920PL	4,78 €	NJ	50 / 400

### AVT 03



- Ghiera per vitone per collettore.
- Threaded socket for insert for manifold.
- Bague pour insert du collecteur.
- Oberteil für Thermostateinsatz für Verteiler.
- Anillo para el tornillo para colectores.

Code	Price	Class	Packaging
553004	1,62 €	NJ	100 / 800

### AGE 09



- Cappuccio di protezione per vitone termostatico.
- Protection cap for thermostatic insert.
- Capuchon de protection pour insert thermostatique.
- Schutzkappe für Thermostat-Regulierungsvorrichtung.
- Tapa de protección para tornillo termostático.

Code	Color	Price	Class	Packaging
501278	□	0,36 €	HA	50 / 400

### TM 3053



- Testa manuale in plastica.
- Plastic manual head.
- Tête manuelle en plastique.
- Kunststoff manueller Hebel.
- Cabezal manual.

Code	Size	Color	Price	Class	Packaging
500046	M30 x 1,5	□	1,20 €	AD	25 / 200

**TE 3040 IV**


- Testa elettrotermica normalmente chiusa (2 fili) con logo IVAR. Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 40$  mm.
- Electrothermal head normally closed (2 wires) with IVAR logo. Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 40$  mm.
- Tête électrothermique normalement fermée (2 fils) avec logo IVAR. Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 40$  mm.
- Elektrothermischer Stellantrieb stromlos-zu (2 Kabel) mit IVAR-Logo. Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 40$  mm.
- Cabeza electrotrémica normalmente cerrada (de 2 hilos) con logo IVAR. Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 40$  mm.

Code	Size	Price	Class	Packaging
501508E	M30 x 1,5 ; ON / OFF (230 V AC)	22,92 €	AC	100

**TE 3040**


- Testa elettrotermica normalmente chiusa (2 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 50$  mm (no EASY-RADIANT).
- Electrothermal head normally closed (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 50$  mm (no EASY-RADIANT).
- Tête électrothermique normalement fermée (2 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 50$  mm (non EASY-RADIANT).
- Elektrothermischer Stellantrieb stromlos-zu (2 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 50$  mm (keine EASY-RADIANT).
- Cabeza electrotrémica normalmente cerrada (de 2 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 50$  mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
501508	M30 x 1,5 ; ON / OFF (230 V AC)	28,30 €	AC	100
501524	M30 x 1,5 ; ON / OFF (24 V AC/DC)	28,30 €	AC	100

**TE 3050 MC**


- Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 40$  mm.
- Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 40$  mm.
- Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 40$  mm.
- Elektrothermischer Stellantrieb stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 40$  mm.
- Cabeza electrotrémica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 40$  mm.

Code	Size	Price	Class	Packaging
500808MC	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100

**TE 3050 M**


- Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 50$  mm (no EASY-RADIANT).
- Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 50$  mm (no EASY-RADIANT).
- Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 50$  mm (non EASY-RADIANT).
- Elektrothermischer Stellantrieb stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 50$  mm (keine EASY-RADIANT).
- Cabeza electrotrémica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 50$  mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
500808M	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100
500028M	M30 x 1,5 ; ON / OFF (24 V AC/DC)	33,58 €	AC	100

### AC 652



- Copertura isolante per collettori da barra in ottone, adatta per impianti di riscaldamento/raffrescamento radiante.
- Insulating cover for brass-rod manifolds, suitable for radiant heating/cooling systems.
- Couverture isolante pour collecteurs de barre en laiton, adaptée pour systèmes radiants de chauffage/refroidissement.
- Isolierabdeckung für Verteiler aus Messingstangen, geeignet für Fussbodenheizung- und Kühlung Systeme.
- Cubierta de aislamiento para colectores de barra de latón, adecuada para sistemas de calefacción y enfriamiento radiante.

Code	Ways	Manifolds type	Price	Class	Packaging
506253	12	1"	20,91 €	NJ	7
506254	12	1" 1/4	20,91 €	NJ	7
506444	12	1" 1/2	25,67 €	NJ	7

### AC 693



- Copertura isolante per collettori in acciaio inox, adatta per impianti di riscaldamento/raffrescamento radiante.
- Insulating cover for stainless steel manifolds, suitable for radiant heating/cooling systems.
- Couverture isolante pour collecteurs en acier inox, adaptée pour systèmes radiants de chauffage/refroidissement.
- Isolierabdeckung für Verteiler aus Edelstahl, geeignet für Fussbodenheizung- und Kühlung Systeme.
- Cubierta de aislamiento para colectores de acero inoxidable, adecuada para sistemas de calefacción y enfriamiento radiante.

Code	Ways	Manifolds type	Price	Class	Packaging
506270	12	1"	28,40 €	NJ	7

### AC 693 F



- Kit composto da 2 fascette di fissaggio per copertura isolante AC 693.
- Kit composed by 2 fixing hose clamps for insulating cover AC 693.
- Kit composé de 2 pinces de fixation pour couverture isolante AC 693.
- Kit bestehend aus 2 Befestigungsklammern für Isolierabdeckung AC 693.
- Kit compuesto por 2 abrazaderas de fijación para cubierta de aislamiento AC 693.

Code	Price	Class	Packaging
500697	2,93 €	NJ	35

### AC 690



- Termometro con catenella per collettori in acciaio inox e EASY-RADIANT.
- Thermometer with chain for stainless steel and EASY-RADIANT manifolds.
- Thermomètre avec chaîne pour collecteurs en acier inox et EASY-RADIANT.
- Thermometer mit Kette für Verteiler aus Edelstahl und EASY-RADIANT.
- Termómetro con cadena para colectores de acero inoxidable y EASY-RADIANT.

Code	Size	Range	Manifolds type	Price	Class	Packaging
510180	Ø40 mm	0-80 °C	1"	12,96 €	NJ	25 / 200

# BALL VALVES

## AC 636 NB



- Valvola a sfera diritta femmina-femmina, manovra a farfalla (blu).
- Female-female straight ball valve, butterfly operation (blue).
- Vanne à bille droite femelle-femelle, manœuvre à papillon (bleu).
- Durchgangs-Kugelventil IG-IG mit Flügelgriff (blau).
- Válvula de bola recta hembra-hembra, vuelta a mariposa para maniobrar (azul).

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
501905NB	✓	3/4"	■	11,15 €	NO	10 / 80
501418NB	✓	1"	■	17,35 €	NO	8 / 64
506299NB	✓	1"1/4	■	27,52 €	NO	8 / 64

## AC 636 NR



- Valvola a sfera diritta femmina-femmina, manovra a farfalla (rossa).
- Female-female straight ball valve, butterfly operation (red).
- Vanne à bille droite femelle-femelle, manœuvre à papillon (rouge).
- Durchgangs-Kugelventil IG-IG mit Flügelgriff (rot).
- Válvula de bola recta hembra-hembra, vuelta a mariposa para maniobrar (roja).

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
501905NR	✓	3/4"	■	11,15 €	NO	10 / 80
501418NR	✓	1"	■	17,35 €	NO	8 / 64
506299NR	✓	1"1/4	■	27,52 €	NO	8 / 64

## AC 635 NB



- Valvola a sfera diritta maschio-femmina senza raccordo, manovra a farfalla (blu).
- Male-female straight ball valve without fitting, butterfly operation (blue).
- Vanne à bille droite mâle-femelle sans raccord, manœuvre à papillon (bleu).
- Durchgangs-Kugelventil AG-IG ohne Verschraubung, mit Flügelgriff (blau).
- Válvula de bola recta macho-hembra sin racor, vuelta a mariposa para maniobrar (azul).

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
501352NB	✓	1/2" F x 3/4" M	■	8,73 €	NO	12 / 96
501353NB	✓	3/4" F x 1" M	■	11,54 €	NO	10 / 80
501354NB	✓	1" F x 1"1/4 M	■	16,42 €	NO	8 / 64
501455B	✓	1"1/4 F x 1"1/2 M	■	29,39 €	NO	6 / 48

## AC 635 NR



- Valvola a sfera diritta maschio-femmina senza raccordo, manovra a farfalla (rossa).
- Male-female straight ball valve without fitting, butterfly operation (red).
- Vanne à bille droite mâle-femelle sans raccord, manœuvre à papillon (rouge).
- Durchgangs-Kugelventil AG-IG ohne Verschraubung, mit Flügelgriff (rot).
- Válvula de bola recta macho-hembra sin racor, vuelta a mariposa para maniobrar (roja).

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
501352N	✓	1/2" F x 3/4" M	■	8,73 €	NO	12 / 96
501353N	✓	3/4" F x 1" M	■	11,54 €	NO	10 / 80
501354N	✓	1" F x 1"1/4 M	■	16,42 €	NO	8 / 64
501455	✓	1"1/4 F x 1"1/2 M	■	29,34 €	NO	6 / 48

### AC 654 NB



- Valvola a sfera diritta maschio-femmina completa di bocchettone a tenuta morbida, manovra a farfalla (blu).
- Male-female straight ball valve complete with soft-seal fitting, butterfly operation (blue).
- Vanne à bille droite mâle-femelle avec goulotte à étanchéité souple, manoeuvre à papillon (bleu).
- Durchgangs-Kugelventil AG-IG mit Selbstdichtendsstutzen und Flügelgriff (blau).
- Válvula de bola recta macho-hembra completa de manguito de unión con junta blanda, vuelta a mariposa para maniobrar (azul).

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
506400B	✓	1/2"	■	11,36 €	NO	12 / 96
506401B	✓	3/4"	■	16,38 €	NO	8 / 64
506402B	✓	1"	■	22,23 €	NO	6 / 48
506403B	✓	1"1/4	■	44,34 €	NO	3 / 24

### AC 654 NR



- Valvola a sfera diritta maschio-femmina completa di bocchettone a tenuta morbida, manovra a farfalla (rossa).
- Male-female straight ball valve complete with soft-seal fitting, butterfly operation (red).
- Vanne à bille droite mâle-femelle avec goulotte à étanchéité souple, manoeuvre à papillon (rouge).
- Durchgangs-Kugelventil AG-IG mit Selbstdichtendsstutzen und Flügelgriff (rot).
- Válvula de bola recta macho-hembra completa de manguito de unión con junta blanda, vuelta a mariposa para maniobrar (roja).

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
506400R	✓	1/2"	■	11,36 €	NO	12 / 96
506401R	✓	3/4"	■	16,38 €	NO	8 / 64
506402R	✓	1"	■	22,23 €	NO	6 / 48
506403R	✓	1"1/4	■	44,34 €	NO	3 / 24

### AC 655 NST



- Coppia di valvole a sfera diritte maschio-femmina complete di bocchettone a tenuta morbida, manovra a farfalla.
- Pair of male-female straight ball valves with soft-seal fitting, butterfly operation.
- Set de vannes à bille droites mâle-femelle avec goulotte à étanchéité souple, manoeuvre à papillon.
- Paar Durchgangs-Kugelventil AG-IG mit Selbstdichtendsstutzen und Flügelgriff.
- Conjunto de válvulas de bola rectas macho-hembra completas de manguito de unión con junta blanda, vuelta a mariposa.

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
506404	✓	1/2"	■ / ■	22,21 €	NO	6 / 48
506405	✓	3/4"	■ / ■	32,85 €	NO	5 / 40
506406	✓	1"	■ / ■	44,58 €	NO	2 / 16
506407	✓	1"1/4	■ / ■	88,68 €	NO	2 / 16
506408	✓	1"1/2	■ / ■	135,15 €	NO	1 / 8

### AC 655 N



- Coppia di valvole a sfera diritte maschio-femmina complete di bocchettone a tenuta morbida e termometro, manovra a farfalla.
- Pair of male-female straight ball valves with soft-seal fitting and thermometer, butterfly operation.
- Set de vannes à bille droites mâle-femelle avec goulotte à étanchéité souple et thermomètre, manoeuvre à papillon.
- Paar Durchgangs-Kugelventil AG-IG mit Selbstdichtendsstutzen, Thermometer und Flügelgriff.
- Conjunto de válvulas de bola rectas macho-hembra completas de manguito de unión con junta blanda y termómetro, vuelta a mariposa.

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
520132	✓	1"	■ / ■	69,81 €	NO	1 / 12
520133	✓	1"1/4	■ / ■	127,22 €	NO	1 / 8

**AC 643 NB**


- Valvola a sfera a squadra maschio-femmina senza raccordo, manovra a farfalla (blu).
- Male-female square ball valve without fitting, butterfly operation (blue).
- Vanne à bille équerre mâle-femelle sans raccord, manœuvre à papillon (bleu).
- Eck-Kugelventil AG-IG ohne Verschraubung, mit Flügelgriff (blau).
- Válvulas de bola de escuadra macho-hembra sin racor, vuelta a mariposa para maniobrar (azul).

Code	Size	Color	Price	Class	Packaging
50800NB	3/4" F x 1" M	■	20,06 €	NO	8 / 64
508001NB	1" F x 1"1/4 M	■	27,17 €	NO	6 / 48
508002NB	1" F x 1"1/2 M	■	30,10 €	NO	8 / 64

**AC 643 NR**


- Valvola a sfera a squadra maschio-femmina senza raccordo, manovra a farfalla (rossa).
- Male-female square ball valve without fitting, butterfly operation (red).
- Vanne à bille équerre mâle-femelle sans raccord, manœuvre à papillon (rouge).
- Eck-Kugelventil AG-IG ohne Verschraubung, mit Flügelgriff (rot).
- Válvulas de bola de escuadra macho-hembra sin racor, vuelta a mariposa para maniobrar (roja).

Code	Size	Color	Price	Class	Packaging
50800NR	3/4" F x 1" M	■	20,06 €	NO	8 / 64
508001NR	1" F x 1"1/4 M	■	27,17 €	NO	6 / 48
508002NR	1" F x 1"1/2 M	■	30,10 €	NO	8 / 64

**AC 682 NST**


- Coppia di valvole a sfera a squadra maschio-femmina complete di bocchettone a tenuta morbida, manovra a farfalla.
- Pair of angle ball valves complete with soft seal fitting, butterfly operation.
- Set de vannes à bille équerre avec goulotte à étanchéité souple, manœuvre à papillon.
- Paar Eck-Kugelventile mit Selbstdichtungsstutzen und Flügelgriff.
- Conjunto de válvulas de bola de escuadra completas de manguito de unión con junta blanda, vuelta a mariposa para maniobrar.

Code	Size	Color	Price	Class	Packaging
508005ST	1" F x 1" M	■ / ■	66,73 €	NO	2 / 8
508006ST	1" F x 1"1/4 M	■ / ■	89,10 €	NO	2 / 8

**AC 682 N**


- Coppia di valvole a sfera a squadra maschio-femmina complete di bocchettone a tenuta morbida e termometro, manovra a farfalla.
- Pair of angle ball valves complete with soft seal fitting and thermometer, butterfly operation.
- Set de vannes à bille équerre avec goulotte à étanchéité souple et thermomètre, manœuvre à papillon.
- Paar Eck-Kugelventile mit Selbstdichtungsstutzen, Thermometer und Flügelgriff.
- Conjunto de válvulas de bola de escuadra completas de manguito de unión con junta blanda y termómetro, vuelta a mariposa para maniobrar.

Code	Size	Accessories	Color	Price	Class	Packaging
508005	1" F x 1" M	Thermometer	■ / ■	88,47 €	NO	2 / 8
508006	1" F x 1"1/4 M	Thermometer	■ / ■	110,83 €	NO	2 / 8

### AC 658 N



- Coppia di valvole a sfera diritte con attacco girevole maschio e termometro incorporato.
- Pair of straight ball valves with male swivelling fitting and built-in thermometer.
- Set de vannes à bille droites avec embout pivotant mâle et thermomètre incorporé.
- Paar gerade Kugelventile mit AG drehbare Anschluß und eingebautem Thermometer.
- Conjunto de válvulas de bola rectas con ataque giratorio macho y termómetro incorporado.

Code	Size	Color	Price	Class	Packaging
506236	1"	■ / ■	65,15 €	NO	1

### AC 669 N



- Coppia di valvole a sfera diritte/squadra con attacco girevole maschio e termometro incorporato.
- Pair of straight/square ball valves with swivelling male fitting and built-in thermometer.
- Set de vannes à bille droites/équerre avec embout pivotant mâle et thermomètre incorporé.
- Paar gerade/Eck Kugelventile mit AG drehbare Anschluß und eingebautem Thermometer.
- Conjunto de válvulas de bola rectas/de escuadra de con ataque giratorio macho y termómetro incorporado.

Code	Size	Color	Price	Class	Packaging
506237	1"	■ / ■	79,60 €	NO	12

### AC 617 I



- Termometro per valvole a sfera.
- Thermometer for ball valves.
- Thermomètre pour vannes à bille.
- Thermometer für Kugelventile.
- Termómetro para válvulas de bola.

Code	Price	Class	Packaging
508010	10,87 €	NO	50 / 400

### AC 635 BCM



- Valvola a sfera diritta maschio-femmina completa di bocchettone semplice, manovra a leva (blu).
- Male-female straight ball valve complete with simple fitting, lever operation (blue).
- Vanne à bille droite mâle-femelle avec goulotte simple, manoeuvre à levier (bleue).
- Durchgangs-Kugelventil AG-IG mit Verschraubung und Hebelgriff (blau).
- Válvula de bola recta macho-hembra completa de manguito de unión simple, con palanca para maniobrar (azul).

Code	Size	Color	Price	Class	Packaging
506257B	1*1/2	■	67,57 €	NO	1 / 8

### AC 635 RCM



- Valvola a sfera diritta maschio-femmina completa di bocchettone semplice, manovra a leva (rossa).
- Male-female straight ball valve complete with simple fitting, lever operation (red).
- Vanne à bille droite mâle-femelle avec goulotte simple, manoeuvre à levier (rouge).
- Durchgangs-Kugelventil AG-IG mit Verschraubung und Hebelgriff (rot).
- Válvula de bola recta macho-hembra completa de manguito de unión simple, con palanca para maniobrar (roja).

Code	Size	Color	Price	Class	Packaging
506257R	1*1/2	■	67,57 €	NO	1 / 8

**AC 654 G**


- **Valvola a sfera diritta femmina-femmina completa di dado girevole, manovra a farfalla.**
- *Female-female straight ball valve with swivelling nut, butterfly operation.*
- **Vanne à bille droite femelle-femelle avec écrou rotatif, manoeuvre à papillon.**
- *Durchgangs-Kugelventil IG-IG mit drehbarer Mutter und Flügelgriff.*
- **Válvula de bola recta hembra-hembra completa de tuerca giratoria, vuelta a mariposa.**

Code	Size	Price	Class	Packaging
5201941	1" F swivel x Ø22 copper pipe	21,42 €	NO	8 / 32
5201951	1" F swivel x 3/4" F	16,20 €	NO	8 / 32
5201961	1" F swivel x 1" F	21,42 €	NO	8 / 32
5201971	1" F swivel x 1"1/4 F	26,65 €	NO	8 / 32

**SF 1335 F**


- **Valvola a sfera diritta con manovra a farfalla e dado girevole.**
- *Straight ball valve with butterfly turn and rotating nut.*
- **Vanne à bille droite avec manoeuvre à papillon et écrou rotatif.**
- *Durchgangs-Kugelventil mit Knebel und drehbarer Mutter.*
- **Válvula de bola recta con vuelta a mariposa para maniobrar y tuerca giratoria.**

Code	Size	Price	Class	Packaging
501398	EUROK x 3/4" EUROK swivel	7,37 €	NJ	20 / 160

**SF 1325 F**


- **Valvola a sfera con manovra a farfalla e bocchettone a tenuta morbida.**
- *Butterfly operated straight ball valve with soft seal fitting.*
- **Vanne à bille droite avec manoeuvre à papillon et goulotte à étanchéité souple.**
- *Durchgangs-Kugelventil mit Knebel und Stutzen mit O-Ring.*
- **Válvula de bola recta con vuelta a mariposa para maniobrar y manguito de unión con junta blanda.**

Code	Size	Price	Class	Packaging
500893	EUROK x 1/2"M O-ring	9,04 €	NJ	20 / 80

**SF 1570**


- **Valvola a sfera diritta maschio-femmina, manovra a farfalla**
- *Male-female straight ball valve, butterfly operation*
- **Vanne à bille droite mâle-femelle, manoevre à papillon**
- *Durchgangs-Kugelventil AG-IG, mit Flügelgriff*
- **Válvula de bola recta macho-hembra, vuelta a mariposa para maniobrar**

Code	Size	Price	Class	Packaging
500379	1/2" F x 1/2" M	6,65 €	NJ	20 / 160

### AGE 01 N



- Bocchettone a tenuta morbida.
- Soft seal fitting.
- Goulotte à étanchéité souple.
- Stutzen mit O-Ring.
- Manguito de unión con junta blanda.

Code	Size	Color	Price	Class	Packaging
506074	5/8" F x 3/8" M O-ring	■	3,14 €	HA	75 / 600
500106	3/4" F x 3/8" M O-ring	■	2,71 €	HA	50 / 400
501279	3/4" F x 1/2" M O-ring (short version)	■	2,71 €	HA	50 / 400
500605N	3/4" F x 1/2" M O-ring	■	2,84 €	HA	50 / 200
501215N	1" F x 3/4" M O-ring	■	5,23 €	HA	35 / 140
506032N	1" F x 1" M O-ring	■	5,23 €	HA	20 / 160
506060N	1" F TP x 1" M O-ring	■	6,01 €	HA	20 / 160
501214N	1"1/4 F x 1" M O-ring	■	6,20 €	HA	20 / 80
501219	1"1/2 F x 1"1/4 M O-ring	■	14,45 €	HA	10 / 80

### AC 637 N



- Bocchettone a tenuta morbida con termometro orientabile per valvola a sfera.
- Soft seal fitting with adjustable thermometer for ball valves.
- Embout à étanchéité souple avec thermomètre orientable pour vannes à bille.
- Selbstdichtendsstutzen mit drehbarem Thermometer für Kugelventile.
- Manguito de unión con junta blanda con termómetro orientable para válvulas de bola.

Code	Size	Price	Class	Packaging
501356N	1"1/4 F x 1" M	18,81 €	NJ	9 / 72
501357N	1"1/2 F x 1"1/4 M	33,72 €	NJ	8 / 64

### AC 619



- Bocchettone ad angolo con o senza spurgo per valvole a sfera. G = con dado girevole 1"1/4.
- Square fitting with or without drain for ball valves. G = with 1"1/4 rotating nut.
- Embout à angle avec ou sans purgeur pour vannes à bille. G = avec écrou rotatif 1"1/4.
- Winkelanschluss mit oder ohne Reinigung für Kugelventile. G = mit 1"1/4 drehbarer Mutter.
- Manguito de unión angular con o sin purga para válvulas de bola. G = con tuerca giratoria 1"1/4.

Code	Size	Accessories	Price	Class	Packaging
500523	1"		10,65 €	NJ	10 / 80
500526	1" x 1/2"		10,65 €	NJ	10 / 80
500523G	1"1/4 F x 1"	1 1/4" rotating nut	14,21 €	NJ	10 / 80
500526G	1"1/4 F x 1" x 1/2"	1 1/4" rotating nut	14,21 €	NJ	10 / 80

### AC 619 L



- Bocchettone ad L con o senza spurgo per valvole a sfera. G = con dado girevole 1"1/4.
- Square fitting with or without drain for ball valves. G = with 1"1/4 rotating nut.
- Embout à L avec ou sans purgeur pour vannes à bille. G = avec écrou rotatif 1"1/4.
- Winkelanschluss lang mit oder ohne Reinigung für Kugelventile. G = mit 1"1/4 drehbarer Mutter.
- Manguito de unión angular con o sin purga para válvulas de bola. G = con tuerca giratoria 1"1/4.

Code	Size	Accessories	Price	Class	Packaging
500528	1"		14,52 €	NJ	10 / 80
500529	1" x 1/2"		14,52 €	NJ	10 / 80
500528G	1"1/4 F x 1"	1 1/4" rotating nut	17,67 €	NJ	10 / 80
500529G	1"1/4 F x 1" x 1/2"	1 1/4" rotating nut	17,67 €	NJ	10 / 80

**AC 6450**


- **Bocchettone a tenuta morbida per valvole a sfera con termometro orientabile, valvola di sfiato automatica e rubinetto di svuotamento orientabile. G = con dado girevole 1"1/4.**
- *Soft seal fitting for ball valves with adjustable thermometer, automatic vent valve and adjustable draining cock. G = with 1"1/4 rotating nut.*
- **Embout à étanchéité souple pour vannes à bille avec thermomètre orientable, soupape d'aération automatique et robinet de vidange orientable. G = avec écrou rotatif 1"1/4.**
- *Selbstdichtungsstutzen mit drehbarem Thermometer für Kugelventile, Schnellentlüfter und drehbarem Entleerungshahn. G = mit 1"1/4 drehbarer Mutter.*
- **Manguito de unión con junta blanda para válvulas de bola con termómetro orientable, válvulas de purga automática y llave de descarga orientable. G = con tuerca giratoria 1"1/4.**

Code	Size	Price	Class	Packaging
500124	1" F x 1" M	40,71 €	NJ	4 / 32
500124G	1"1/4 F x 1" M	44,35 €	NJ	4 / 32


**AC 645**


- **Bocchettone a tenuta morbida a 3 attacchi per valvole a sfera.**
- *3 connection soft seal fitting for ball valves.*
- **Embout à étanchéité souple à 3 attaches pour vannes à bille.**
- *Anschlussstück mit O-Ring und 3 Anschlüssen für Kugelventile.*
- **Manguito de unión con junta blanda con 3 conexiones para válvulas de bola.**

Code	Size	Price	Class	Packaging
500073	1" F - 3 x 1/2" F	14,09 €	NJ	12 / 96

**AC 645 G**


- **Bocchettone a tenuta morbida a 3 attacchi per valvole a sfera con dado girevole 1"1/4.**
- *3 connection soft seal fitting for ball valves with 1"1/4 rotating nut.*
- **Embout à étanchéité souple à 3 attaches pour vannes à bille avec écrou rotatif 1"1/4.**
- *Anschlussstück mit O-Ring und 3 Anschlüssen für Kugelventile mit 1"1/4 drehbarer Mutter.*
- **Manguito de unión con junta blanda con 3 conexiones para válvulas de bola con tuerca giratoria de 1"1/4.**

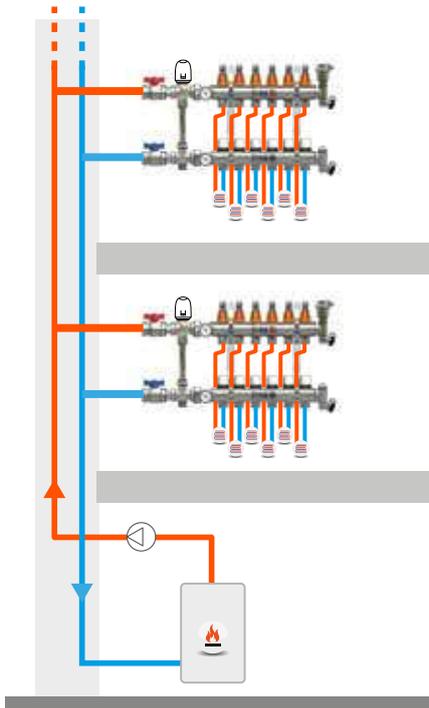
Code	Size	Accessories	Price	Class	Packaging
500073G	1"1/4 F - 3 x 1/2" F	1 1/4" rotating nut	16,61 €	NJ	10 / 80


**FOCUS: inlet port with swivel fitting**

The soft seal inlet port enables the connection of a variety of accessories such as an automatic purge valve, an adjustable thermometer, a bypass or drain valve. If aligned connections are required, for example to maintain the correct height of the purge valve, the "G" version is specially recommended, complete with additional rotary lock nut.

# ZONE VALVES

The zone valves are shutoff and bypass devices that enable control of the flow to distribution terminals such as manifolds. These devices are used in so-called separate zone systems: an ambient thermostat manages opening of the zone valve and thus the flow of heating fluid to the utilities in the relative zone.



Example of zone valve + manifold operation

Versions are available with piston control via suitable electro-thermal actuators or ball controlled versions controlled by rotary servomotors.

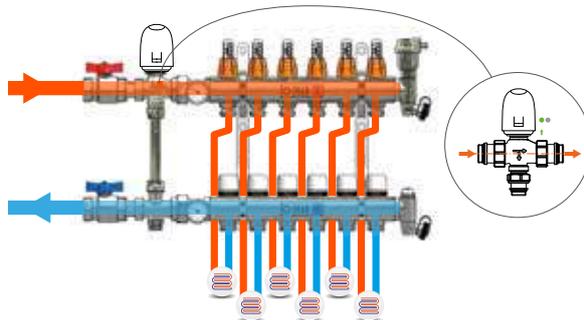
VZ range valves with piston inserts are 3-way bypass valves (one inlet and two outlets): available in stand-alone versions (VZ30) or with bypass kit for third way balancing and provision for connection to manifolds with centre-to-centre distance 200 mm (VZ 00).

Correct operation requires the valve to be open on the straight section in the event of heat demand in the zone, while the flow is bypassed along the central way of the bypass when the zone is off.

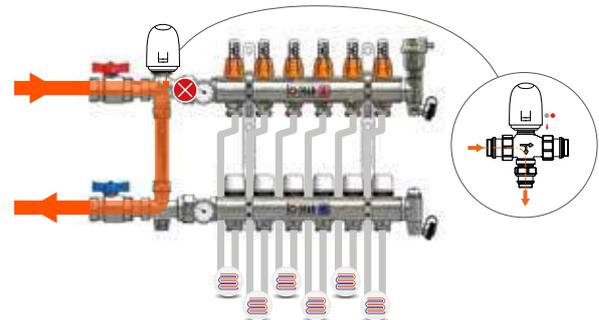
VZ 00 versions are also equipped with a bypass tee fitting with integrated balancing device: this enables the creation on the third central way of the same pressure drop generated by the circuits downline of the zone valve, so that the system is always balanced even during operation bypass mode.

Alternatively, the VZS range includes the ball zone valves. This type is used to reduce pressure drops and is therefore ideal mainly in situations where high flow rates are required. They also feature relatively low manoeuvre times thanks to the AVZS actuators which trigger opening/closure of the valve in 25 s – 50 s – 90 s, depending on the selected model.

This range also includes the models VZS 05, i.e. a 2-way ball zone valve used in zone systems served by electronic high-performance variable-speed circulation pumps, and VZS 10 which is a bypass valve with inlet from the central way.

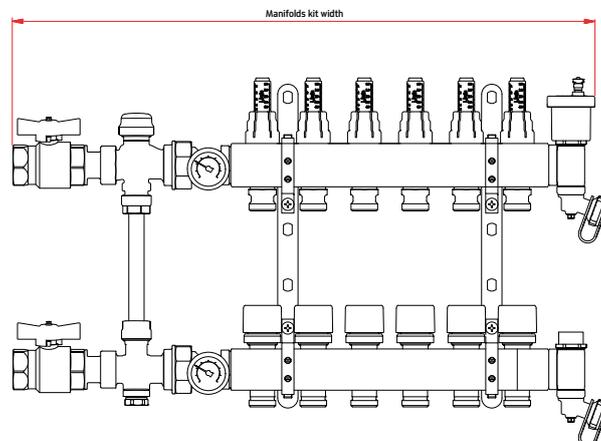


Zone valve + manifolds, flow with ON



Zone valve + manifolds, flow with OFF

## MANIFOLDS KIT WIDTH AND SUITABLE CABINET



Manifold ways	2	3	4	5	6	7	8	9	10	11	12	13
1" manifolds kit width	370 mm	420 mm	470 mm	520 mm	570 mm	620 mm	670 mm	720 mm	770 mm	820 mm	870 mm	920 mm
Suitable cabinet	200686	200686	200186	200186	200786	200786	200286	200286	200886	200886	200386	200386
Cabinet width	600 mm	600 mm	700 mm	700 mm	800 mm	800 mm	900 mm	900 mm	1.000 mm	1.000 mm	1.100 mm	1.100 mm

**VZ 00**


- Valvola di zona a pistone con bypass regolabile e memoria di posizione per collettori.
- Piston zone valve with adjustable bypass and position memory for manifolds.
- Vanne de zone à piston avec bypass réglable et mémoire de position pour collecteurs.
- Zonenventil mit Kolben mit einstellbarem Bypass und Einstellungsspeicher für Verteiler.
- Válvula de zona de pistón con bypass regulable y memoria de posición para colectores.

Code	Size	OC distance	Depth	Price	Class	Packaging
550700	3/4" O-ring	200 mm	110 mm	69,25 €	NY	1 / 10
550715P80	1" O-ring	200 mm	80 mm	69,64 €	NY	1
550715	1" O-ring	200 mm	110 mm	69,64 €	NY	1 / 10

**VZ 30**


- Valvola di zona deviatrice a pistone a 3 vie.
- 3-way diverter piston zone valve.
- Vanne de zone déviatrice à piston à 3 voies.
- 3-Wege-Zonenumschaltventil mit Kolben.
- Válvula de zona desviadora de pistón de 3 vías.

Code	Size	Price	Class	Packaging
550710	3/4" M O-ring x 1/2" M O-ring x 3/4" M O-ring	36,25 €	NY	1 / 32
550711	1" M O-ring x 1/2" M O-ring x 1" M O-ring	36,47 €	NY	1 / 32



- TE 3040 IV >> p. 177,257,420,551,563



- TE 3040 >> p. 257,420,460,551,563



- TE 3050 MC >> p. 177,257,421,551,563



- TE 3050 M >> p. 257,421,460,551,563

■ VZS 20



- Valvola di zona a sfera per collettori.
- Ball zone valve for manifolds.
- Vanne de zone à bille pour collecteurs.
- Zonenkugelventil für Verteiler.
- Válvula de zona de bola para colectores.

Code	Size	OC distance	Depth	Price	Class	Packaging
506230	3/4" O-ring	200 mm	110 mm	97,29 €	NX	1
506231P80	1" O-ring	200 mm	80 mm	118,28 €	NX	1 / 4
506231	1" O-ring	200 mm	110 mm	122,29 €	NX	1

■ VZS 21



- Valvola di zona a sfera per collettori.
- Ball zone valve for manifolds.
- Vanne de zone à bille pour collecteurs.
- Zonenkugelventil für Verteiler.
- Válvula de zona de bola para colectores.

Code	Size	OC distance	Depth	Price	Class	Packaging
506230L	3/4" O-ring	250 mm	110 mm	103,26 €	NX	1
506231L	1" O-ring	250 mm	110 mm	128,26 €	NX	1

■ VZS 00



- Valvola di zona a sfera a 2 vie.
- 2-way ball zone valve.
- Vanne de zone à bille à 2 voies.
- 2-Wege-Zonenkugelventil.
- Válvula de zona de bola con 2 vías.

Code	Size	Price	Class	Packaging
506210	3/4" M O-ring	37,00 €	NX	1 / 32
506211	1" M O-ring	46,44 €	NX	1
506212	1"1/4 M O-ring	64,43 €	NX	1

■ VZS 05



- Valvola di zona a sfera a 2 vie con doppio bocchettone.
- 2-way ball zone valve with double fitting.
- Vanne de zone à bille à 2 voies avec double embout.
- 2-Wege-Zonenkugelventil mit doppelt Selbstdichtendsutzen.
- Válvula de zona de bola con 2 vías con doble manguito de unión.

Code	Size	Price	Class	Packaging
506222	3/4" M O-ring x 3/4" M O-ring	47,98 €	NX	1 / 32
506223	1" M O-ring x 1" M O-ring	61,18 €	NX	1 / 32
506224	1"1/4 M O-ring x 1"1/4 M O-ring	90,68 €	NX	1 / 8

**VZS 10**


- Valvola di zona a sfera deviatrice a 3 vie.
- 3-way diverter ball zone valve.
- Vanne de zone à bille déviateur à 3 voies.
- 3-Wege-Zonenumschaltkugelventil.
- Válvula de zona de bola desviadora con 3 vías.

Code	Size	Price	Class	Packaging
506220	3/4" O-ring x 3/4" O-ring x 3/4" O-ring	63,95 €	NX	1
506221	1" O-ring x 1" O-ring x 1" O-ring	85,13 €	NX	1 / 4

**AC 656**


- Kit valvole di zona a sfera completo di servomotori AVZS 10 (230 V) per la commutazione del circuito primario estate/inverno (chiller/ caldaia).
- Ball zone valve kit complete with AVZS 10 motors (230 V) for the switching of the summer/winter primary circuit (chiller/boiler).
- Kit de vannes de zone à bille complet de servomoteurs AVZS 10 (230 V) pour la commutation du circuit primaire été/hiver (chiller/chaudière).
- Zonenkugelventile Kit mit AVZS 10 Stellantriebe (230 V) zum Umschalten des Hauptkreises von Sommer- auf Winterbetrieb und umgekehrt (Chiller/Heizung).
- Conjunto válvulas de zona de bola completo de servomotores AVZS 10 (230 V) para la conmutación del circuito primario verano/invierno (enfriador/caldera).

Code	Size	Price	Class	Packaging
506410	1" O-ring x 1" O-ring x 1" O-ring	444,97 €	NX	1

**AVZS 10**


- Servomotore per valvole di zona a sfera con dispositivo di sblocco.
- Servo motor for ball zone valves with release device.
- Servomoteur pour les vannes de zone à bille avec dispositif de déblocage.
- Stellantriebe für Zonenkugelventile mit Entriegelungsvorrichtung.
- Servomotor para válvulas de zona de bola con dispositivo de desbloqueo.

Code	Size	Price	Class	Packaging
506242	24 V AC - 50 sec.	138,14 €	NN	1
506243	230 V AC - 50 sec.	135,24 €	NN	2 / 8

**AVZS 11**


- Servomotore per valvole di zona a sfera con dispositivo di sblocco.
- Servo motor for ball zone valves with release device.
- Servomoteur pour les vannes de zone à bille avec dispositif de déblocage.
- Stellantriebe für Zonenkugelventile mit Entriegelungsvorrichtung.
- Servomotor para válvulas de zona de bola con dispositivo de desbloqueo.

Code	Size	Price	Class	Packaging
506242V	24 V AC - 25 sec.	138,14 €	NN	1
506243V	230 V AC - 25 sec.	135,24 €	NN	1 / 8

■ AVZS 00



- **Servomotore per valvole di zona a sfera.**
- *Servo motor for ball zone valves.*
- **Servomoteur pour vannes de zone à bille.**
- *Stellantriebe für Zonenkugelventile.*
- **Servomotor para válvulas de zona de bola.**

Code	Size	Price	Class	Packaging
506241	230 V AC - 50 sec.	127,83 €	NN	1

■ AVZS 01



- **Servomotore per valvole di zona a sfera.**
- *Servo motor for ball zone valves.*
- **Servomoteur pour vannes de zone à bille.**
- *Stellantriebe für Zonenkugelventile.*
- **Servomotor para válvulas de zona de bola.**

Code	Size	Price	Class	Packaging
506241V	230 V AC - 25 sec.	127,83 €	NN	1

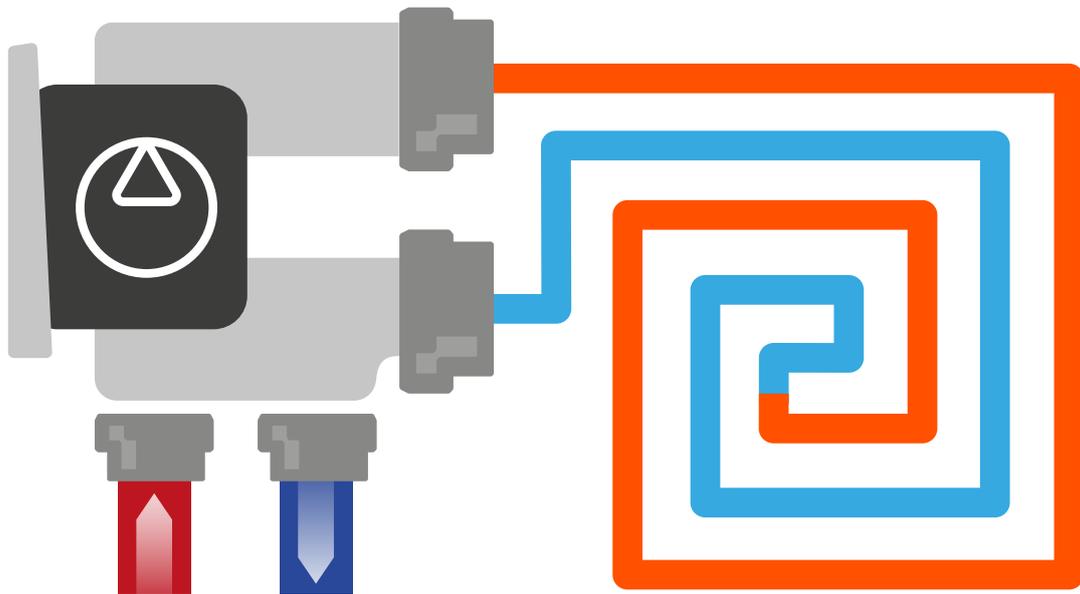
■ AVZS 02



- **Servomotore per valvole di zona a sfera a 2 vie.**
- *Servo motor for 2-way ball zone valves.*
- **Servomoteur pour vannes de zone à bille à 2 voies.**
- *Stellantriebe für 2-Wege-Zonenkugelventile.*
- **Servomotor para válvulas de zona de bola con 2 vías.**

Code	Size	Price	Class	Packaging
506166	230 V - 90 sec.	101,26 €	NN	1 / 8

# RADIANT SYSTEMS



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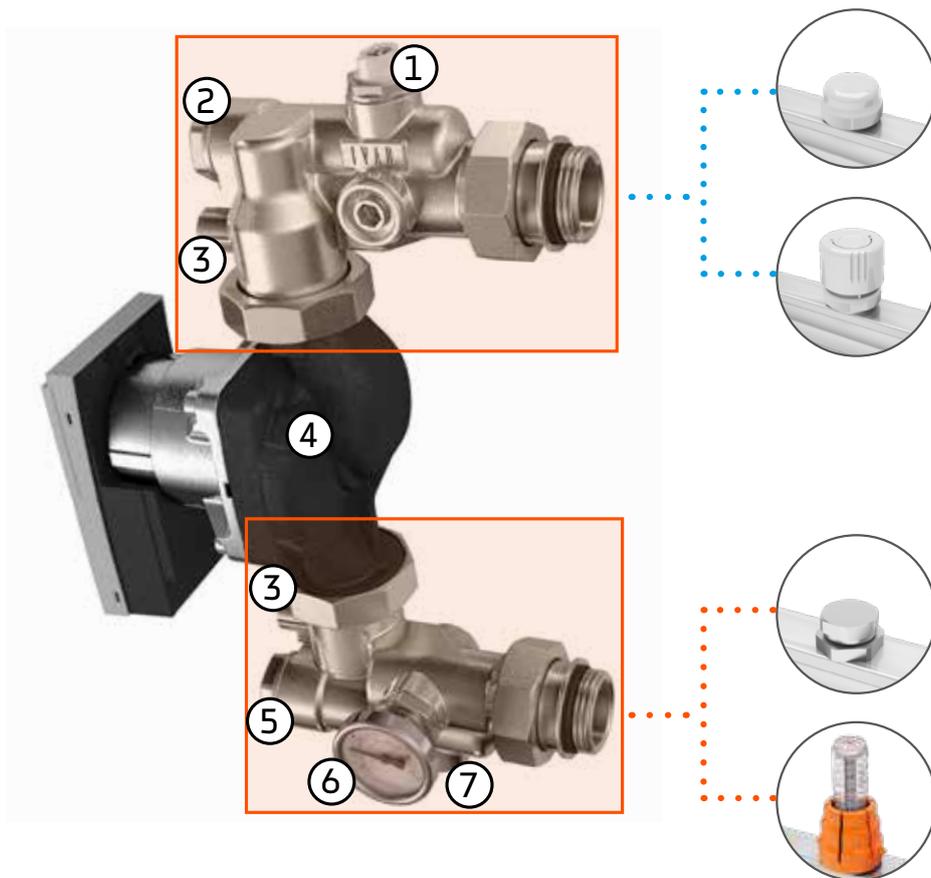
	<p><b>FLOORMIX - Sistema per riscaldamento radiante</b>  <i>FLOORMIX - System for radiant heating</i>  <b>FLOORMIX - Système pour chauffage radiant</b>  <i>FLOORMIX - System für Flachheizung</i>  <b>FLOORMIX - Sistema para calefacción radiante</b></p>	274
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	<p><b>COMBIMIX - Gruppo di miscelazione e rilancio per sistemi radianti</b>  <i>COMBIMIX - Mixing and pump unit for radiant systems</i>  <b>COMBIMIX - Groupe de mélange et relance pour systèmes radiants</b>  <i>COMBIMIX - Misch- und Versorgungsgruppe für Flachheizung-Systeme</i>  <b>COMBIMIX - Grupo de mezcla y relanzamiento para los sistemas radiantes</b></p>	280
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	<p><b>UNIFLOOR - Unità di miscelazione e distribuzione per singolo circuito radiante</b>  <i>UNIFLOOR - Mixing and distribution unit for single radiant circuit</i>  <b>UNIFLOOR - Unité de mélange et distribution pour single circuit radiant</b>  <i>UNIFLOOR - Misch- und Verteilungs-Modul für einzel Flachheizung-Schaltung</i>  <b>UNIFLOOR - Unidad de mezcla y distribución para circuito radiante único</b></p>	296

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# FLOORMIX

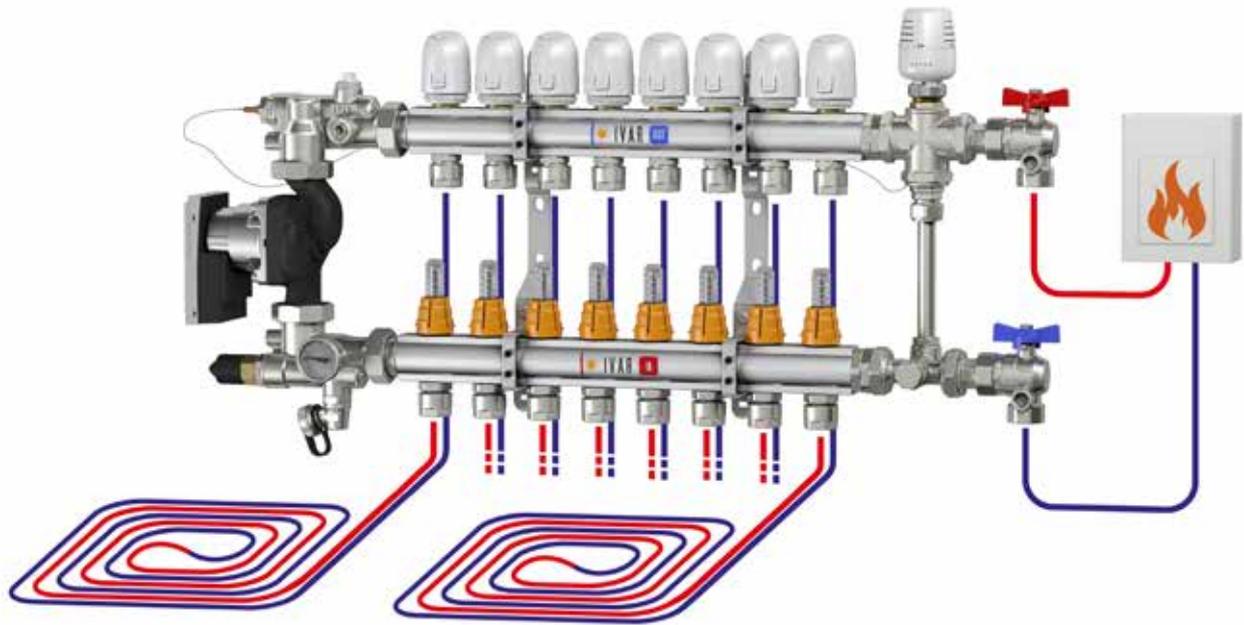
For radiant heating it is essential to control the flow temperature of the fluid in the circuit in an effective manner and to assure the design flow. FLOORMIX is a simple modular system that provides the components to carry out these important functions: a pair of fittings that make it possible to install a booster pump and service and safety components, and a series of accessories that make it possible to regulate delivery temperature. In particular, a two-way valve regulates with fixed point control (thermostatic head) or temperature control (servo motor, electronic controller and external probe) the hot water flow to mixing, which takes place directly in the return manifold. FLOORMIX is complemented by the IVAR manifold kits with pre-mounted inserts for balancing and controlling the individual zones. Power (\*): 12 kW approx.

\*Boiler temperature 60 °C; delivery temperature to radiant installation 40 °C with 7 °C thermal gradient; 8-way distribution manifolds



## □ TWO MULTI-FUNCTION FITTINGS

1. Air-vent valve
2. Flow temperature sensor
3. Pump isolation valves
4. Booster pump
5. Safety thermostat pocket
6. Thermometer
7. Fill/drain valve connection



**FOCUS: mixing kits**



Fixed-point adjustment



Two-way valve with pre-mixing port



Two-way valve

**OR**



Weather-compensated adjustment



Two-way valve with pre-mixing port



Two-way valve

■ AC 702



- Gruppo collegamento pompa per sistema FLOORMIX.
- Pump connection unit for the FLOORMIX system.
- Groupe de raccordement de pompe pour système FLOORMIX.
- Pumpenanschlußgruppe für System FLOORMIX.
- Grupo de conexión bomba para sistema FLOORMIX.



Code	Price	Class	Packaging
506075	128,27 €	NL	1 / 8

■ AC 664/L



- Kit di premiscelazione a punto fisso per sistema FLOORMIX.
- Fixed setting premixing kit for the FLOORMIX system.
- Kit de prémélange à point fixe pour système FLOORMIX.
- Vormischung festwert Regelung Kit für System FLOORMIX.
- Kit de pré-mistura com ponto fixo para sistema FLOORMIX..

Code	Size	Price	Class	Packaging
500147	Pump 130 mm	144,77 €	NL	1 / 6
500147L	Pump 180 mm	145,79 €	NL	1

■ AC 664 M/ML



- Kit di premiscelazione motorizzabile per sistema FLOORMIX.
- Motorized premixing kit for the FLOORMIX system.
- Kit de prémélange motorisable pour système FLOORMIX.
- Vormischung Regelung Kit für Mischermotor für System FLOORMIX.
- Kit de premezclado motorizable para sistema FLOORMIX.

Code	Size	Price	Class	Packaging
500147M	Pump 130 mm	105,81 €	NL	1 / 6
500147ML	Pump 180 mm	106,78 €	NL	1

■ DD 321



- Detentore diritto con bocchettone a tenuta morbida.
- Straight lockshield with soft seal pipe union.
- Raccord droit avec tubulure de raccordement à joint souple étanche.
- Rucklaufventil Durchgangsform mit Selbstdichtendsutzen.
- Detentor recto con manguito de unión con junta blanda.

Code	Size	Price	Class	Packaging
500645RC	3/4" F x 1" M O-ring	12,00 €	DA	10 / 80

■ DS 322



- Detentore a squadra con bocchettone a tenuta morbida.
- Angle lockshield with soft seal pipe union.
- Raccord équerre avec tubulure de raccordement à joint souple étanche.
- Rucklaufventil Eckform mit Selbstdichtendsutzen.
- Detentor de escuadra con manguito de unión con junta blanda.

Code	Size	Price	Class	Packaging
500634RC	3/4" F x 1" M O-ring	11,94 €	DA	10 / 80

**AC 662**


- Valvola di bilanciamento per sistema FLOORMIX.
- Balancing valve for FLOORMIX system.
- Vanne d'équilibrage pour système FLOORMIX.
- Ausgleichventil für FLOORMIX-System.
- Válvula de equilibrio para sistema FLOORMIX.

Code	Size	Price	Class	Packaging
500527	1"	19,33 €	NL	2 / 64

**WILO4F**


ErP

- Circolatore elettronico a velocità variabile (Conforme alla direttiva europea 2009/125/CE - ErP „Energy related Products“).
- Variable speed electronic circulator (In accordance with European Directive 2009/125/CE - ErP "Energy related Products").
- Circulateur électronique à vitesse variable (Conforme à la Directive Européenne 2009/125/CE - ErP "Energy related Products").
- Elektronische Umwälzpumpe mit variabler Geschwindigkeit (Entspricht der Europaischen Richtlinie 2009/125/CE - ErP "Energy related Produkts").
- Circulador electrónico de velocidad variable (Conforme a la directiva europea 2009/125/CE - ErP „Energy related Products“).

Code	Size	Head loss	Price	Class	Packaging
WILO4F	1"1/2 - 130 mm	6 m	236,64 €	HK	3
WILO4F-180	1"1/2 - 180 mm	6 m	255,00 €	HK	5

**WILO3F**


ErP

- Circolatore standard a 3 velocità.
- 3-speed standard circulator.
- Circulateur standard à 3 vitesses.
- Umwälzpumpe mit 3 Geschwindigkeitsstufen.
- Circulador estándar de 3 velocidades.

Code	Size	Head loss	Price	Class	Packaging
WILO3F	1"1/2 - 130 mm	6 m	164,00 €	HK	5
WILO3F-180	1"1/2 - 180 mm	6 m	175,00 €	HK	1

**AC 633**


- Distanziatore filettato per pompe.
- Threaded spacer for pumps.
- Ecarteur fileté pour pompes.
- Zwischenstück mit Gewinde für Pumpen.
- Distanciadór roscado para bombas.

Code	Size	Price	Class	Packaging
500933	1"1/2 - 130 mm	14,11 €	HK	25
500934	1"1/2 - 180 mm	16,67 €	HK	20

# 2-WAY AXIAL VALVES

## ■ VDS 01



- Valvola termostattizzabile a squadra/diritta per elevate portate.
- Angle/straight thermostatic valve for high flow capacity
- Robinet thermostatizable équerre/droite pour débit élevé.
- Thermostatierbares Ventil Eckform/Durchgangsform für erhöhte Durchfluss.
- Válvula termostatizable de escuadra/recta para caudales elevados.

Code	Size	Price	Class	Packaging
500388	3/4" F x 3/4" M O-ring	31,24 €	BA	5 / 40
500403	3/4" F x 1" M O-ring	32,48 €	BA	5 / 40

## ■ T 5011



- Testa termostatica con comando incorporato e sensore remoto a immersione.
- Thermostatic head with incorporated command and remote immersion sensor.
- Tête thermostatique avec commande incorporée et senseur à distance à immersion.
- Thermostat-Kopf mit eingebauter Steuerung und Eintauch-Fernfühler.
- Cabeza termostática con mando incorporado y sensor remoto por inmersión.

Code	Size	Range	Length	Price	Class	Packaging
501175	M30 x 1,5 - 1/2"	20-60 °C	2 m	41,20 €	AA	5 / 40

## ■ T 5012



- Testa termostatica con comando incorporato e sensore remoto a contatto.
- Thermostatic head with incorporated command and remote contact sensor
- Tête thermostatique avec commande incorporée et senseur à distance à contact.
- Thermostat-Kopf mit eingebauter Steuerung und Berührungs-Fernfühler.
- Cabeza termostática con mando incorporado y sensor remoto de contacto.

Code	Size	Range	Length	Price	Class	Packaging
501176	M30 x 1,5	20-60 °C	2 m	35,52 €	AA	5 / 40

## ■ AGE 13



- Pozzetto porta sonda per teste termostatiche T 5011 e T 5011 U.
- Thermometer well for T 5011 and T 5011 U thermostatic heads.
- Doigt de gant porte-sonde pour têtes thermostatiques T 5011 et T 5011 U.
- Tauchhülse Halterung für Thermostatköpfe T 5011 und T 5011 U.
- Termopozo para sonda para cabezas termostáticas T 5011 y T 5011 U.

Code	Actuator	Size	Price	Class	Packaging
500530	T 5011	1/2"	9,14 €	AE	25 / 200
500530U	T 5011 U	1/2"	9,76 €	AE	25 / 200

## ■ AGE 12



- Kit piastrina e molle per teste termostatiche T 5012.
- Plate and springs kit for T 5012 thermostatic heads.
- Kit plaquette et ressorts pour têtes thermostatiques T 5012.
- Platte- und Federsatz für Thermostatköpfe T 5012.
- Conjunto plaquetas y muelle para cabezas termostáticas T 5012.

Code	Actuator	Price	Class	Packaging
509200	T 5012	4,57 €	AE	25 / 200

**VDS 02**


- **Valvola motorizzabile a squadra/dritta per elevate portate.**
- *Angle/straight motorized valve for high flow capacity.*
- **Robinet motorisable équerre/droite pour débit élevé.**
- *Motorisierbares Ventil Eckform/Durchgangsform für erhöhte Durchfluss.*
- **Válvula motorizable de escuadra/recta para caudales elevados.**

Code	Size	Price	Class	Packaging
500388M	3/4" F x 3/4" M O-ring	35,58 €	BA	5 / 40
500403M	3/4" F x 1" M O-ring	35,58 €	BA	5 / 40

**RV 01**


- **Servomotore assiale. Compatibile con tutti i vitoni termostatici IVAR.**
- *Axial motor. Suitable for all IVAR thermostatic inserts.*
- **Servomoteur axial. Adapté pour tous les inserts thermostatiques IVAR.**
- *Axial-Stellantrieb. Geeignet für alle Thermostat-Regulievorrichtungen IVAR.*
- **Servomotor axial. Adecuado para todos los tornillos termostáticos IVAR.**

Code	Size	Price	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	109,71 €	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC)	127,27 €	PC	1 / 100

**TE 3061**


- **Testa elettrotermica normalmente chiusa (comando proporzionale 0-10 V). Compatibile con tutti i vitoni termostaticizzabili IVAR.**
- *Electrothermal head normally closed (proportional control 0-10 V). Suitable for all IVAR thermostatic inserts.*
- **Tête électrothermique normalement fermée (commande proportionnel 0-10 V). Adaptée pour tous les inserts thermostatisables IVAR.**
- *Elektrothermischer Stellantriebe normalerweise geschlossen (proportional Steuerung 0-10 V). Geeignet für alle Thermostat-Regulievorrichtungen IVAR.*
- **Cabeza electrotrémica normalmente cerrada (control proporcional 0-10 V). Adecuada para todos los tornillos termostaticizables IVAR.**

Code	Size	Price	Class	Packaging
500887	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	97,92 €	AC	100

# COMBIMIX

COMBIMIX is a mixing and boosting unit for radiant systems. The delivery temperature is controlled by a 2-way valve, which regulates the inflow of hot water to the mixing station ("injection" system). The unit is available in a version with fixed point control and thermostat head or climate controlled with servomotor, to be integrated with electronic regulator with external probe.

Complete with valves for balancing, shutoff, air purge and draining/filling, COMBIMIX combines all essential functions in a compact and easily accessible unit. The unit can be combined with an IVAR kit of manifolds in brass or stainless steel with pre-assembled inserts for balancing and control of individual zones, and can be joined with kit of horizontal or vertical manifolds, fitted upline of mixing to supply high temperature heating elements.

Power (\*): approx. 14 kW.

\*Boiler temperature 60 °C; delivery temperature with radiant system 40 °C with temperature variation of 7 °C; 8-way distribution manifolds

## MIXING UNIT

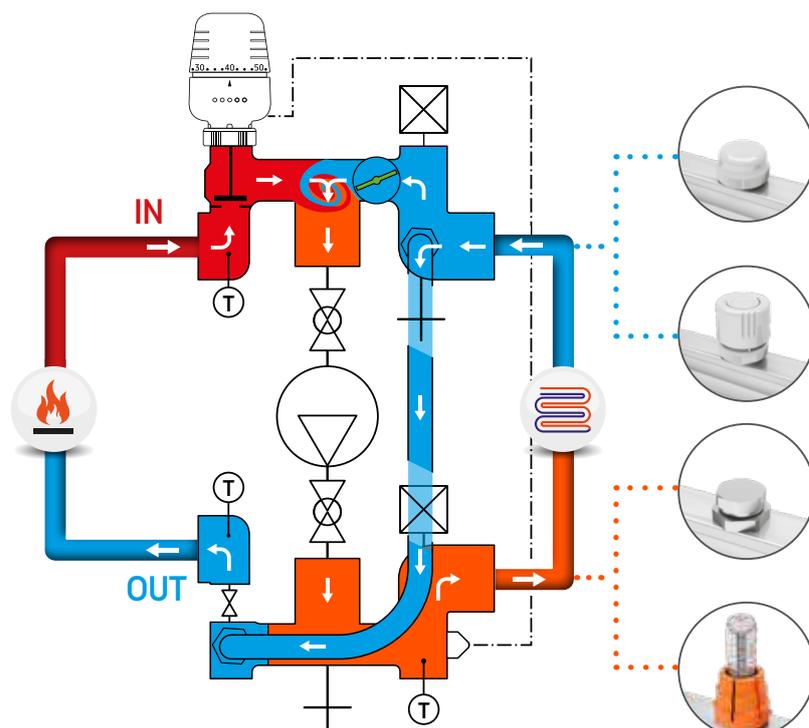
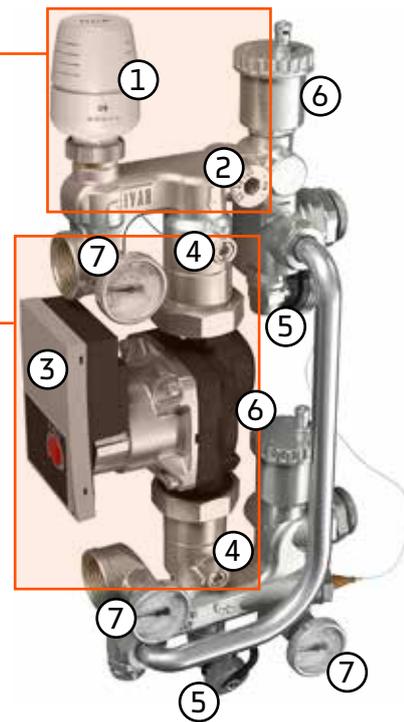
1. 2-way control valve with motor drive or controlled by thermostat head
2. Mixing balancing valve

## BOOSTER UNIT

3. High-efficiency variable rpm pump; centre-to-centre distance 130 mm or 180 mm
4. Shutoff ball valve

## ACCESSORIES

5. Filler/drain valves
6. Automatic air purge valves
7. Thermometers



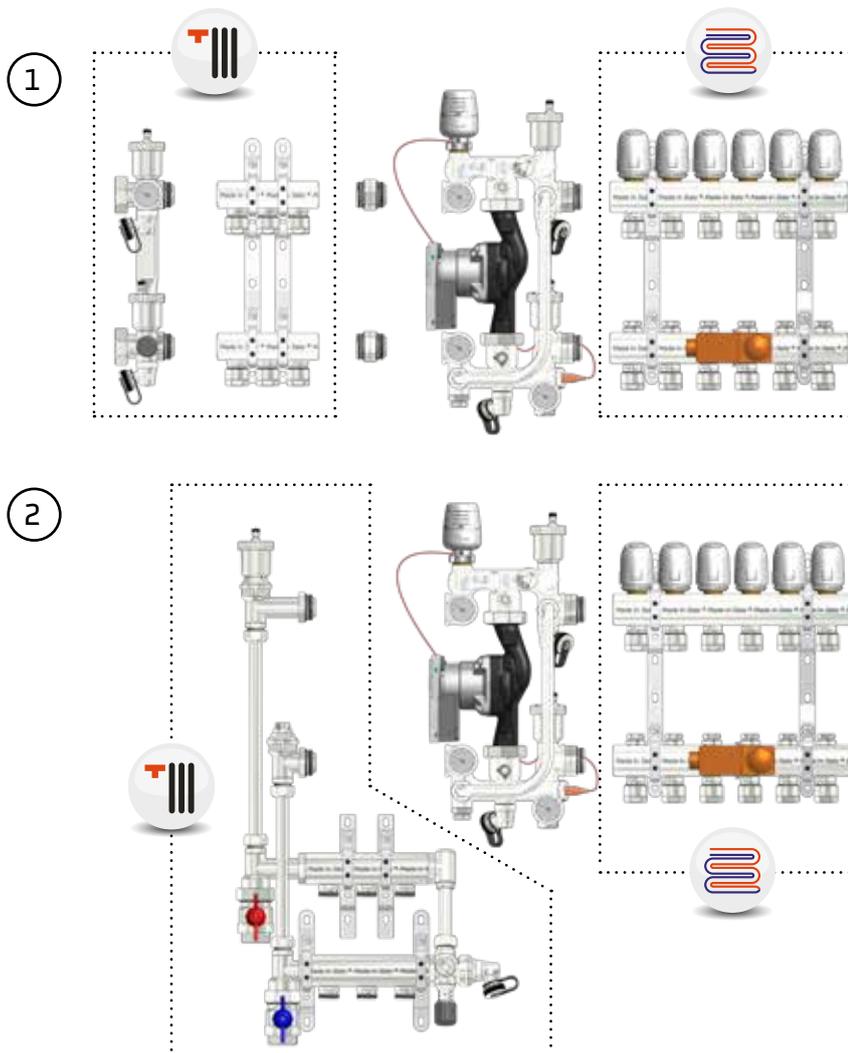
## ⊕ PLUS

- Complete compact system for radiant system control
- Fixed point or climate control
- Two-way mixing control valve
- Pump centre-to-centre distance 130 mm or 180 mm with shutoff valves

## 🎯 FOCUS: kit per alta temperatura

The COMBIMIX system offers two options to supply high temperature components directly using the boiler fluid:

1. **horizontal** version, with standard manifolds connected to the primary connectors on COMBIMIX using two AC 606 nipples
2. **vertical** version, using the special kit, including simple or shutoff version manifolds and all required accessories.



**COMBI TNB**



- Gruppo di regolazione COMBIMIX a punto fisso per sistemi radianti con/senza pompa elettronica a velocità variabile da 130/180 mm.
- Fixed setting COMBIMIX regulator unit for radiant systems with/without 130/180 mm variable speed electronic pump.
- Groupe de réglage COMBIMIX à point fixe pour systèmes à plancher chauffant avec/sans pompe électronique à vitesse variable de 130/180 mm.
- Fußbodenregulierungseinheit COMBIMIX mit festwert Regelung mit/ohne elektronischer Pumpe mit variabler Geschwindigkeit von 130/180 mm.
- Grupo de regulación COMBIMIX a punto fijo para sistemas de calefacción por suelo radiante con/sin bomba electrónica de velocidad variable de 130/180 mm.

Code	Actuator	Pump	Size	Price	Class	Packaging
500454NB	T 5011		130 mm	384,74 €	NL	1
500410NB	T 5011		180 mm	384,74 €	NL	1
500454PE	T 5011	WILO4F	130 mm	636,88 €	NL	1
500410PE	T 5011	WILO4F-180	180 mm	656,44 €	NL	1

**COMBI T**



- Gruppo di regolazione COMBIMIX a punto fisso per sistemi radianti con/senza pompa standard a 3 velocità da 130/180 mm.
- Fixed setting COMBIMIX regulator unit for radiant systems with/without 130/180 mm standard 3-speed pump.
- Groupe de réglage COMBIMIX à point fixe pour systèmes à plancher chauffant avec/sans pompe standard à 3 vitesses de 130/180 mm.
- Fußbodenregulierungseinheit COMBIMIX mit festwert Regelung mit/ohne Standardpumpe mit 3 Geschwindigkeiten von 130/180 mm.
- Grupo de regulación COMBIMIX a punto fijo para sistemas de calefacción por suelo radiante con/sin bomba estándar de 3 velocidades de 130/180 mm.

Code	Actuator	Bypass	Pump	Size	Price	Class	Packaging
500454	T 5011	✓		130 mm	408,65 €	NL	1
500410	T 5011	✓		180 mm	408,65 €	NL	1
500454P	T 5011	✓	WILO3F	130 mm	547,76 €	NL	1

**T 5011**



- Testa termostatica con comando incorporato e sensore remoto a immersione.
- Thermostatic head with incorporated command and remote immersion sensor.
- Tête thermostatique avec commande incorporée et senseur à distance à immersion.
- Thermostat-Kopf mit eingebauter Steuerung und Eintauch-Fernfühler.
- Cabeza termostática con mando incorporado y sensor remoto por inmersión.

Code	Size	Range	Length	Price	Class	Packaging
501175	M30 x 1,5 - 1/2"	20-60 °C	2 m	41,20 €	AA	5 / 40

**ACM 01**



- Copertura isolante per COMBIMIX.
- Insulating cover for COMBIMIX.
- Couverture isolante pour COMBIMIX.
- Isolierung Box für COMBIMIX.
- Cobertura aislante para COMBIMIX.

Code	Price	Class	Packaging
506255	47,08 €	NL	4

**COMBI MNB**


- Gruppo di regolazione COMBIMIX motorizzabile per sistemi radianti con/senza pompa elettronica a velocità variabile da 130/180 mm.
- COMBIMIX motorized regulation unit for radiant systems with/without 130/180 mm variable speed electronic pump.
- Groupe de réglage COMBIMIX motorisable pour systèmes à plancher chauffant avec/sans pompe électronique à vitesse variable de 130/180 mm.
- Fußbodenregulierungseinheit COMBIMIX mit Regelung durch Stellantriebe mit/ohne elektronischer Pumpe mit variabler Geschwindigkeit von 130/180 mm.
- Grupo de regulación COMBIMIX motorizable para sistemas de calefacción por suelo radiante con/sin bomba electrónica de velocidad variable de 130/180 mm.

Code	Pump	Size	Price	Class	Packaging
501728NB		130 mm	342,72 €	NL	1
501729NB		180 mm	342,72 €	NL	1
501728PE	WILO4F	130 mm	594,86 €	NL	1
501729PE	WILO4F-180	180 mm	614,42 €	NL	1

**COMBI M**


- Gruppo di regolazione COMBIMIX motorizzabile per sistemi radianti con/senza pompa standard a 3 velocità da 130/180 mm.
- COMBIMIX motorized regulation unit for radiant systems with/without 130/180 mm standard 3-speed pump.
- Groupe de réglage COMBIMIX motorisable pour systèmes à plancher chauffant avec/sans pompe standard à 3 vitesses de 130/180 mm.
- Fußbodenregulierungseinheit COMBIMIX mit Regelung durch Stellantriebe mit/ohne Standardpumpe mit 3 Geschwindigkeiten von 130/180 mm.
- Grupo de regulación COMBIMIX motorizable para sistemas de calefacción por suelo radiante con/sin bomba estándar de 3 velocidades de 130/180 mm.

Code	Bypass	Pump	Size	Price	Class	Packaging
501728	✓		130 mm	366,63 €	NL	1
501729	✓		180 mm	366,63 €	NL	1
501728P	✓	WILO3F	130 mm	505,74 €	NL	1
501729P	✓	WILO3F-180	180 mm	528,56 €	NL	1

**RV 01**


- Servomotore assiale. Compatibile con tutti i vitoni termostatici IVAR.
- Axial motor. Suitable for all IVAR thermostatic inserts.
- Servomoteur axial. Adapté pour tous les inserts thermostatiques IVAR.
- Axial-Stellantrieb. Geeignet für alle Thermostat-Regulier Vorrichtungen IVAR.
- Servomotor axial. Adecuado para todos los tornillos termostáticos IVAR.

Code	Size	Price	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	109,71 €	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC)	127,27 €	PC	1 / 100

**TE 3061**


- Testa elettrotermica normalmente chiusa (comando proporzionale 0-10 V). Compatibile con tutti i vitoni termostattizzabili IVAR.
- Electrothermal head normally closed (proportional control 0-10 V). Suitable for all IVAR thermostatic inserts.
- Tête électrothermique normalement fermée (commande proportionnel 0-10 V). Adaptée pour tous les inserts thermostatisables IVAR.
- Elektrothermischer Stellantriebe normalerweise geschlossen (proportional Steuerung 0-10 V). Geeignet für alle Thermostat-Regulier Vorrichtungen IVAR.
- Cabeza electrotérmica normalmente cerrada (control proporcional 0-10 V). Adecuada para todos los tornillos termostattizables IVAR.

Code	Size	Price	Class	Packaging
500887	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	97,92 €	AC	100

■ CEP/02 I - CEP/03 I



- Kit alta temperatura per COMBIMIX con collettori intercettabili.
- High temperature kit for the COMBIMIX system with manifolds with isolation valves.
- Kit haute température pour COMBIMIX avec collecteurs interceptables.
- Einbausatz Hochtemperatur für COMBIMIX mit absperbare Heizkreise Verteiler.
- Kit alta temperatura para COMBIMIX con colectores interceptables.

Code	Ways	Size	Price	Class	Packaging
502105	2	1" x EUROK	281,30 €	NL	1
502106	3	1" x EUROK	314,10 €	NL	1

■ CEP/02 - CEP/03



- Kit alta temperatura per COMBIMIX con collettori semplici.
- High temperature kit for the COMBIMIX system with plain manifolds.
- Kit haute température pour COMBIMIX avec collecteurs simples.
- Einbausatz Hochtemperatur für COMBIMIX mit Heizkreise Verteiler.
- Kit alta temperatura para COMBIMIX con colectores simples.

Code	Ways	Size	Price	Class	Packaging
502103	2	1" x EUROK	259,64 €	NL	1
502100	3	1" x EUROK	278,67 €	NL	1

■ WILO4F



- Circolatore elettronico a velocità variabile (Conforme alla direttiva europea 2009/125/CE - ErP „Energy related Products“).
- Variable speed electronic circulator (In accordance with European Directive 2009/125/CE - ErP “Energy related Products“).
- Circulateur électronique à vitesse variable (Conforme à la Directive Européenne 2009/125/CE - ErP “Energy related Products“).
- Elektronische Umwälzpumpe mit variabler Geschwindigkeit (Entspricht der Europäischen Richtlinie 2009/125/CE - ErP “Energy related Products“).
- Circulador electrónico de velocidad variable (Conforme a la directiva europea 2009/125/CE - ErP „Energy related Products“).

Code	Size	Head loss	Price	Class	Packaging
WILO4F	1"1/2 - 130 mm	6 m	236,64 €	HK	3
WILO4F-180	1"1/2 - 180 mm	6 m	255,00 €	HK	5

■ WILO3F



- Circolatore standard a 3 velocità.
- 3-speed standard circulator.
- Circulateur standard à 3 vitesses.
- Umwälzpumpe mit 3 Geschwindigkeitsstufen.
- Circulador estándar de 3 velocidades.

Code	Size	Head loss	Price	Class	Packaging
WILO3F	1"1/2 - 130 mm	6 m	164,00 €	HK	5
WILO3F-180	1"1/2 - 180 mm	6 m	175,00 €	HK	1

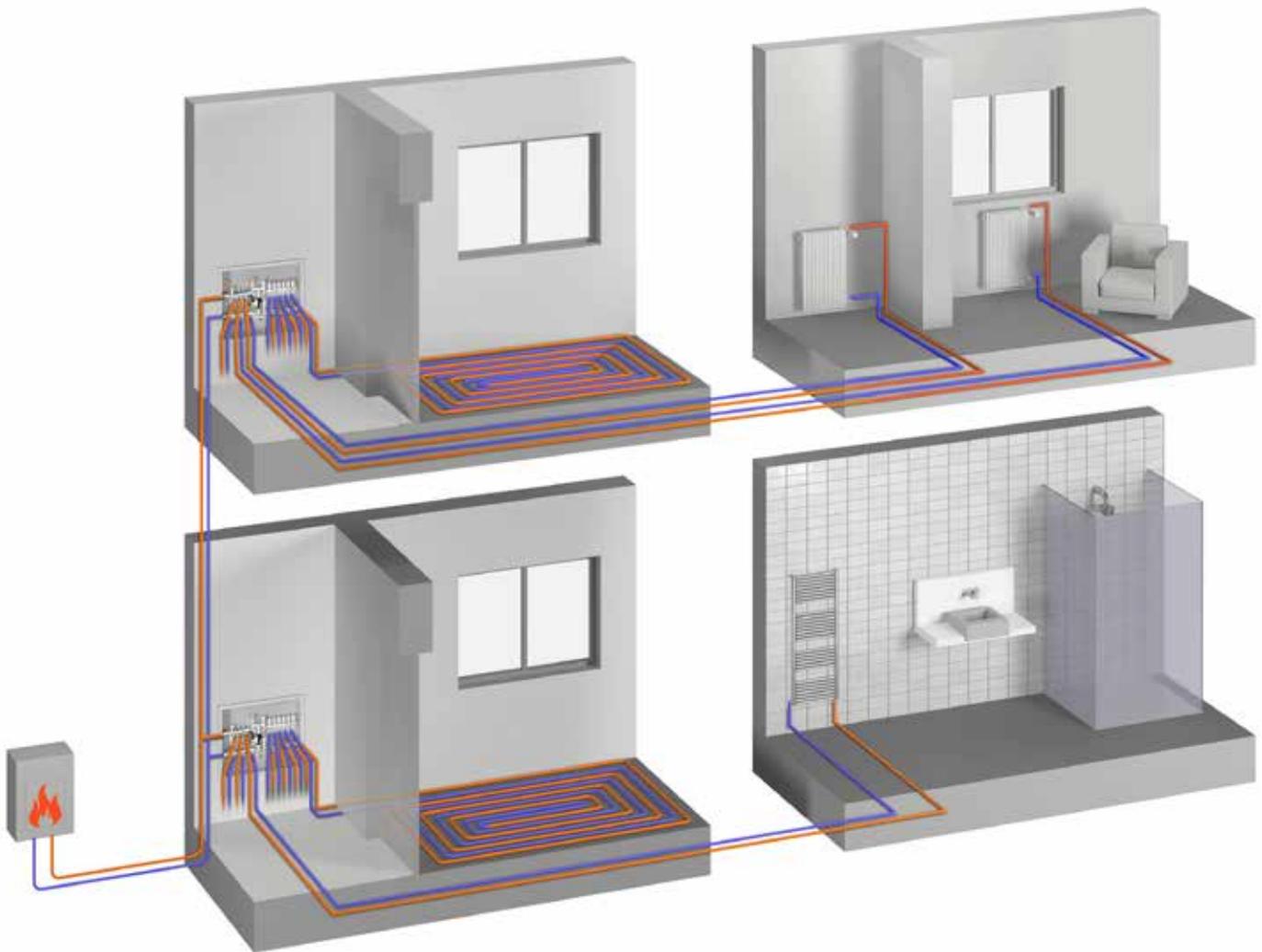
■ AC 633



- Distanziatore filettato per pompe.
- Threaded spacer for pumps.
- Ecarteur fileté pour pompes.
- Zwischenstück mit Gewinde für Pumpen.
- Distancidor roscado para bombas.

Code	Size	Price	Class	Packaging
500933	1"1/2 - 130 mm	14,11 €	HK	25
500934	1"1/2 - 180 mm	16,67 €	HK	20

### INSTALLATION LAYOUT



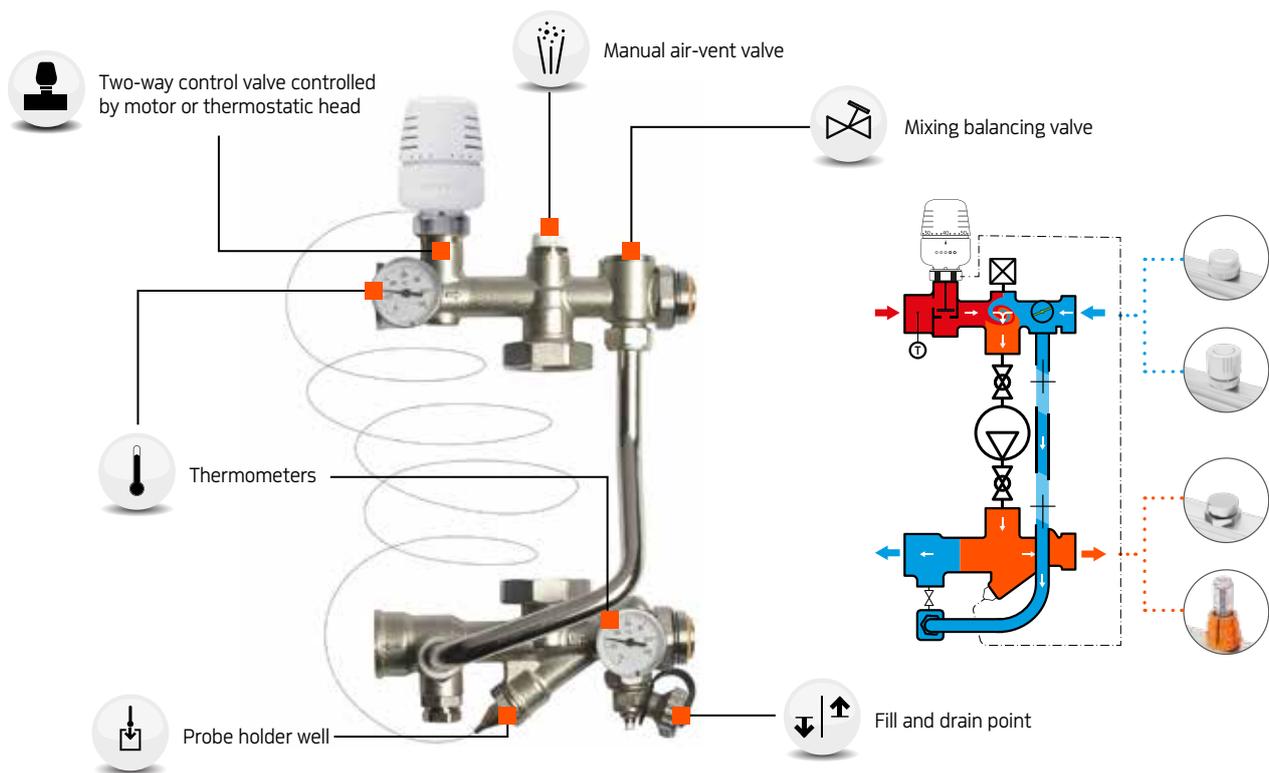
# TECHNOMIX

TECHNOMIX is a mixing pump unit for radiant systems. Flow temperature is controlled with a two-way valve, adjusting the quantity of heating/cooling fluid to mixing ("injection" system). The unit is available in version with fixed-point adjustment by thermostatic head, or version suitable to weather-compensated adjustment by servomotor and controller with outdoor sensor. In the latter version, TECHNOMIX can be used also in cooling applications.

Equipped with balancing, shut-off, air-vent and fill/drain valves, TECHNOMIX combines all the necessary functions in a small, easily accessible space. The unit is reversible with inlet from the right or the left, can be completed with IVAR manifolds featuring balancing and control valves on each radiant distribution circuit, and with horizontal- or vertical-structure manifold kits to supply high-temperature heating bodies upstream of the mixing zone.

## PLUS

- Temperature control carried out by a two-way valve («injection» system) to obtain maximum compactness.
- Available with fixed point or weather compensated regulation.
- Reversible system: connection to primary from right or left.



### TECHNO TNB



- Gruppo di regolazione TECHNOMIX a punto fisso per sistemi radianti.
- Fixed setting TECHNOMIX regulator unit for radiant systems.
- Groupe de réglage TECHNOMIX à point fixe pour systèmes à plancher chauffant.
- Fußbodenregulierungseinheit TECHNOMIX mit festwert Regelung.
- Grupo de regulación TECHNOMIX a punto fijo para sistemas de calefacción por suelo radiante.

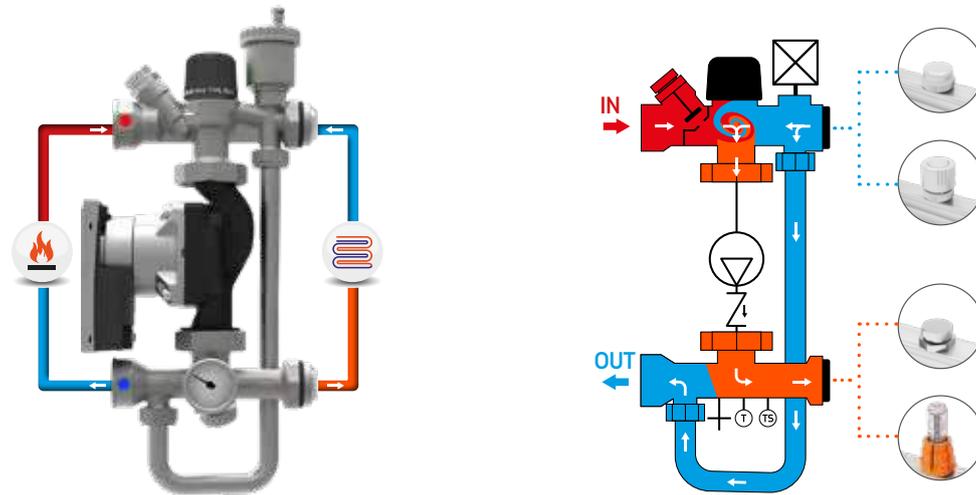
Code	Actuator	Size	Price	Class	Packaging
508100	T 5011	130 mm	326,58 €	NL	1

# MULTIFLOOR

MULTIFLOOR is a mixing and boosting unit for radiant underfloor systems. An adjustable thermostatic mixer keeps the delivery temperature stable at the required value, which can be set by means of a simple knob. Complete with supply temperature gauge, safety thermostat, shutoff valve on inlet, air purge/filler valves, MULTIFLOOR offers a ready-to-use solution with compact dimensions and easily accessible, completely reversible for left/right installations. The unit can be integrated with IVAR manifold kits with pre-assembled inserts for balancing and control of individual radiant circuits, and can be completed with horizontal or vertical manifold kits to supply high temperature heating units upline of mixing.

## PLUS

- Integrated thermostatic insert for optimal fixed station control (28-53 °C)
- Designed to control medium size residential systems
- Balancing valve and control integrated on primary circuit



### MF 01



- Gruppo di miscelazione e rilancio con/senza pompa da 130 mm per sistemi radianti MULTIFLOOR.
- Mixing and pump kit with/without 130 mm pump for radiant systems MULTIFLOOR.
- Groupe de mélange et relance avec/sans pompe de 130 mm pour systèmes radiants MULTIFLOOR.
- Misch- und Versorgungsgruppe mit/ohne Pumpe von 130 mm für Flachheizung-Systeme MULTIFLOOR.
- Grupo de mezcla y relanzamiento con/sin bomba de 130 mm para los sistemas radiantes MULTIFLOOR.

Code	Pump	Range	Erp	Price	Class	Packaging
500414		28-53 °C	-	303,47 €	NL	1
500414P	WILO3F	28-53 °C	-	442,58 €	NL	1
500414PE	WILO4F	28-53 °C	✓	555,61 €	NL	1

### AMF 01



- Copertura isolante per MULTIFLOOR.
- Insulating cover for MULTIFLOOR.
- Couverture isolante pour MULTIFLOOR.
- Isolierung Box für MULTIFLOOR.
- Cobertura aislante para MULTIFLOOR.

Code	Price	Class	Packaging
506271	54,34 €	NL	5

UNIMIX is a regulation unit designed to deliver water from a high temperature generator to the most suitable temperature for distribution in radiant circuits. All essential functions are achieved by just two components: mixing, boosting, drain/filling, air purge, shutoff, temperature monitoring and safety shutdown. Mixing is performed in a 3-way valve controllable from a fixed point or using climate compensation.

Management of the radiant system is completed with distribution manifolds and relative accessories. It is also possible to divert a direct branch upline of the mixer thanks to a special set of manifolds, which can be selected either as simple versions or with shutoff valves.

All UNIMIX components are available with pre-formed insulation casing, which makes the system suitable for applications in heating or cooling.

Power (\*): approx. 15 kW.

\*Boiler temperature 60 °C; flow temperature with radiant system 40 °C with temperature variation of 7 °C; 8-way distribution manifolds

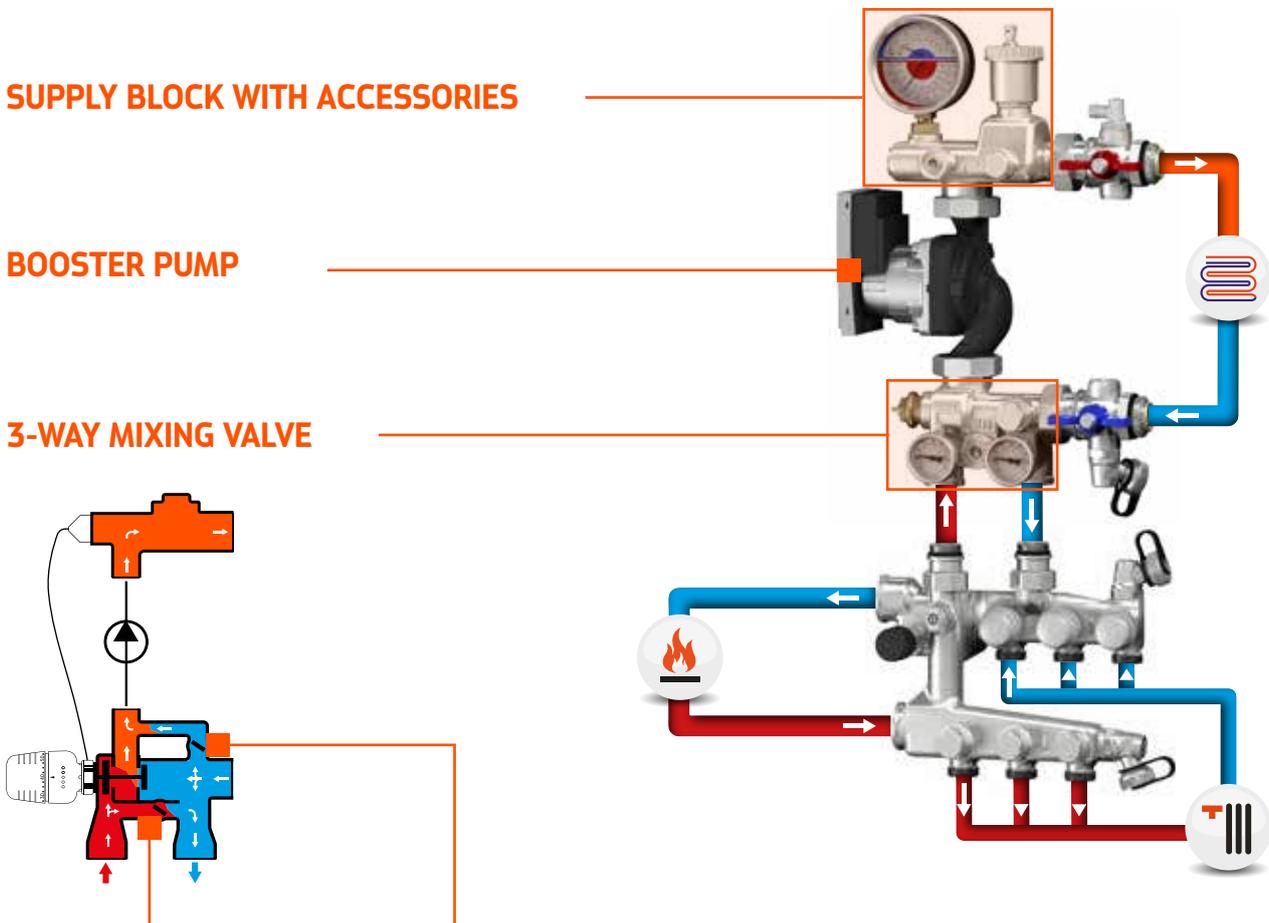
## PLUS

- Compact system for radiant heating and cooling
- Fixed point or climate control
- Three-way mixing control valve
- Manifold kit with dedicated straight branches

### SUPPLY BLOCK WITH ACCESSORIES

### BOOSTER PUMP

### 3-WAY MIXING VALVE



Primary bypass:

- recirculation on generator
- balancing

Secondary bypass:

- improved mixing control
- increased flow rate to circuit

**UM 01**


- Gruppo di regolazione UNIMIX con/senza pompa.
- UNIMIX regulation unit with/without pump.
- Groupe de réglage UNIMIX avec/sans pompe.
- Fußbodenregulierungseinheit UNIMIX mit/ohne Pumpe.
- Grupo de regulación UNIMIX con/sin bomba.

Code	Pump	Erp	Price	Class	Packaging
500438		-	342,11 €	NL	1
500438P130	WILO3F	-	481,22 €	NL	1
500438PE130	WILO4F	✓	594,25 €	NL	1

**UM 01 D/S**


- Gruppo di regolazione UNIMIX con/senza pompa, con valvole a sfera diritte (D) o a squadra (S).
- UNIMIX regulation unit with/without pump, with straight (D) or angle (S) ball valves.
- Groupe de réglage UNIMIX avec/sans pompe, avec vannes à bille droites (D) ou équerre (S).
- Fußbodenregulierungseinheit UNIMIX mit/ohne Pumpe, mit Kugelventilen Durchgangsform (D) oder Eckform (S).
- Grupo de regulación UNIMIX con/sin bomba, con válvulas de bola rectas (D) o de escuadra (S).

Code	Included Accessories	Pump	Erp	Price	Class	Packaging
500438D	Straight ball valves		-	376,57 €	NL	1
500438DP130	Straight ball valves	WILO3F	-	515,68 €	NL	1
500438DPE130	Straight ball valves	WILO4F	✓	628,70 €	NL	1
500438S	Angle ball valves		-	434,74 €	NL	1
500438SP130	Angle ball valves	WILO3F	-	573,85 €	NL	1
500438SPE130	Angle ball valves	WILO4F	✓	686,88 €	NL	1

**AUM 03**


- Copertura isolante per UNIMIX.
- Insulating cover for UNIMIX.
- Couverture isolante pour UNIMIX.
- Isolierabdeckung für UNIMIX.
- Cobertura aislante para UNIMIX.

Code	Price	Class	Packaging
506256	47,08 €	NL	3

**MA 20**


- Termomanometro con attacco posteriore.
- Temperature-pressure gauge with rear coupling.
- Thermomanomètre avec embout postérieure.
- Thermomanometer mit rückwärtigem Anschluss.
- Termomanómetro con conexión posterior.

Code	Size	Range	Price	Class	Packaging
509141	1/2" M	0-120 °C - 0-6 bar	27,93 €	NL	40

**MA 20 R**


- Termomanometro con attacco radiale.
- Temperature-pressure gauge with radial coupling.
- Thermomanomètre avec embout radiale.
- Thermomanometer mit radial Anschluss.
- Termomanómetro con conexión radial.

Code	Size	Range	Price	Class	Packaging
509141R	1/2" M	0-120 °C - 0-6 bar	27,93 €	NL	30

For special configurations of UNIMIX with pre-assembled manifold kit in the cabinet, please contact

**LINEA ARANCIO**  
**TECHNICAL SUPPORT**  
[linea.arancio@ivar.it](mailto:linea.arancio@ivar.it)

Type	HEATING	
Actuator / controller	<p>Fixed point adjustment</p>	<p>Weather-compensated adjustment</p>
System	<b>KM01T</b>	<b>KM02M</b>

Variable speed electronic circulator WIL04F  
 (In accordance with European Directive 2009/125/CE ErP Energy related Products).

3-speed standard circulator WIL03F.

Manifolds 1"

Manifolds 1"1/4.

Systems can be ordered with/without cabinet.

High temperature kit with plain manifolds (OPTIONAL).

High temperature kit with manifolds with isolation valves (OPTIONAL).

Angle ball valves (connections on the left for only low T. systems; connections at the bottom for systems with high T. kit)

Straight ball valves (connections at the bottom for only low T. systems; connections on the left for systems with high T. kit)

For special configurations of UNIMIX with pre-assembled manifold kit in the cabinet, please contact

**LINEA ARANCIO**  
**TECHNICAL SUPPORT**  
[linea.arancio@ivar.it](mailto:linea.arancio@ivar.it)

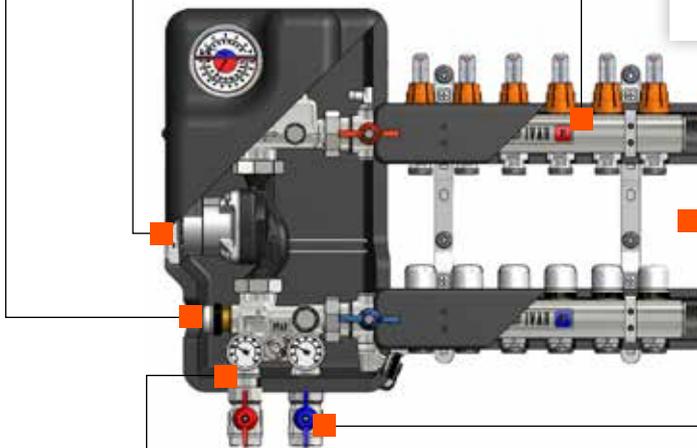
Type	HEATING / COOLING	
Actuator / controller	<p>Weather-compensated adjustment (electronic devices already wired)</p>	<p>Weather-compensated adjustment (electronic devices not included)</p>
System	<b>KM03M</b>	<b>KM04M</b>

ErP

Variable speed electronic circulator WIL04F  
(In accordance with European Directive 2009/125/CE ErP Energy related Products).

Manifolds 1"      Manifolds 1"1/4.

Systems can be ordered with/without cabinet, except KM03M system which comes with wired control devices



High temperature kit with plain manifolds (OPTIONAL).

High temperature kit with manifolds with isolation valves (OPTIONAL).

AQUASTOP  
(Cold water non-circulation device)

Angle ball valves (connections on the left for only low T. systems; connections at the bottom for systems with high T. kit)

Straight ball valves (connections at the bottom for only low T. systems; connections on the left for systems with high T. kit)

# UNIMIX•C

UNIMIX•C is a mixing system that, thanks to attentive simplification, has been developed to become a compact version of UNIMIX without losing its functional and performance features.

All UNIMIX C components are available with pre-formed insulation casing, which makes the system suitable for heating or cooling applications.

Power (\*): approx. 15 kW.

\*Boiler temperature 60 °C; delivery temperature with radiant system 40 °C with temperature variation of 7 °C; 8-way distribution manifolds

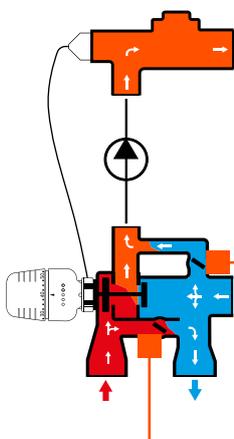
## ⊕ PLUS

- Compact system for radiant heating and cooling
- Fixed point or climate control
- 3-way mixing control valve
- Manifold kit with dedicated straight branches

### DELIVERY BLOCK WITH ACCESSORIES

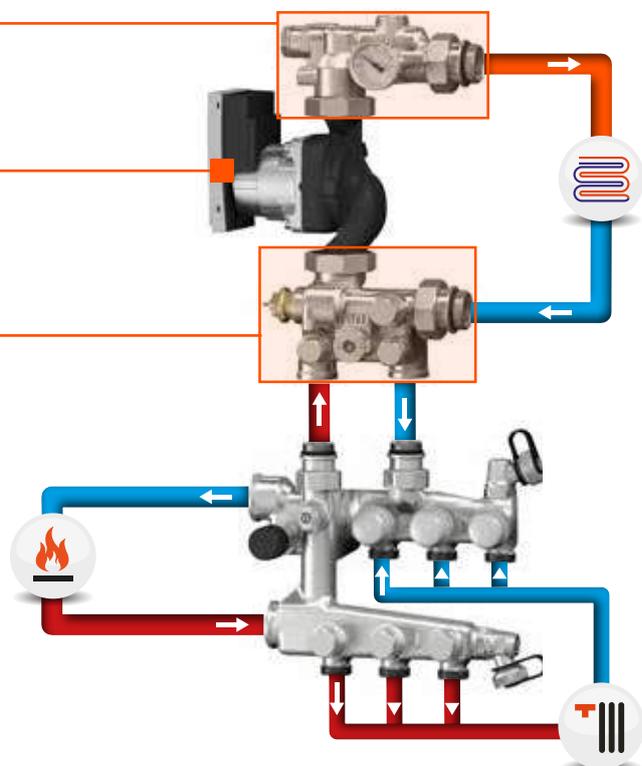
### BOOSTING PUMP

### 3-WAY MIXING VALVE



Primary bypass:  
• circulation on generator  
• balancing

Secondary bypass:  
• improved mixing control  
• increased flow rate to circuit



**UMC 01**


- Gruppo di regolazione UNIMIX-C con/senza pompa.
- UNIMIX-C regulation unit with/without pump.
- Groupe de réglage UNIMIX-C avec/sans pompe.
- Fußbodenregulierungseinheit UNIMIX-C mit/ohne Pumpe.
- Grupo de regulación UNIMIX-C con/sin bomba.

Code	Pump	Erp	Price	Class	Packaging
500897WP		-	233,66 €	NL	1
500897	WILO3F	-	372,77 €	NL	1
500897E	WILO4F	✓	485,80 €	NL	1

**UMC 01 D/S**


- Gruppo di regolazione UNIMIX-C con/senza pompa, con valvole a sfera diritte (D) o a squadra (S).
- UNIMIX-C regulation unit with/without pump, with straight (D) or angle (S) ball valves.
- Groupe de réglage UNIMIX-C avec/sans pompe, avec vannes à bille droites (D) ou équerre (S).
- Fußbodenregulierungseinheit UNIMIX-C mit/ohne Pumpe, mit Kugelventilen Durchgangsform (D) oder Eckform (S).
- Grupo de regulación UNIMIX-C con/sin bomba, con válvulas de bola rectas (D) o de escuadra (S).

Code	Included Accessories	Pump	Erp	Price	Class	Packaging
500897DWP	Straight ball valves		-	268,12 €	NL	1
500897D	Straight ball valves	WILO3F	-	407,23 €	NL	1
500897DE	Straight ball valves	WILO4F	✓	520,25 €	NL	1
500897SWP	Angle ball valves		-	326,29 €	NL	1
500897S	Angle ball valves	WILO3F	-	465,40 €	NL	1
500897SE	Angle ball valves	WILO4F	✓	578,43 €	NL	1

# ACCESSORIES FOR UNIMIX - UNIMIX•C

## ■ T 5011 U



- **Testa termostatica con comando incorporato e sensore remoto ad immersione.**
- *Thermostatic head with incorporated control and immersion remote sensor.*
- **Tête thermostatique avec commande incorporée et capteur à distance à immersion.**
- *Thermostat-Kopf mit eingebauter Steuerung und Eintauch-Fernfühler.*
- **Cabeza termostático con mando incorporado y sensor remoto de inmersión.**

Code	Size	Range	Length	Price	Class	Packaging
501175U	M30 x 1,5 - 1/2"	30-55 °C	1 m	42,19 €	AA	5 / 40

## ■ RV 01



- **Servomotore assiale. Compatibile con tutti i vitoni termostatici IVAR.**
- *Axial motor. Suitable for all IVAR thermostatic inserts.*
- **Servomoteur axial. Adapté pour tous les inserts thermostatiques IVAR.**
- *Axial-Stellantrieb. Geeignet für alle Thermostat-Regulievorrichtungen IVAR.*
- **Servomotor axial. Adecuado para todos los tornillos termostáticos IVAR.**

Code	Size	Price	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	109,71 €	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC)	127,27 €	PC	1 / 100

## ■ AC 613 FU



- **Termostato di sicurezza a taratura fissa precablato.**
- *Fixed setting safety thermostat pre-wired.*
- **Thermostat de sécurité à graduation fixe pré câblé.**
- *Vorverklemmt Sicherheitsthermostat mit festverter Einstellung.*
- **Termostato de seguridad con ajuste fijo precableado.**

Code	Max operating temp.	Price	Class	Packaging
580014U	60 °C	62,77 €	VA	1 / 8

## ■ AC 613 CU



- **Termostato di sicurezza a contatto precablato.**
- *Safety thermostat with pre-wired contact.*
- **Thermostat de sécurité à contact, pré-câblé.**
- *Vorverklemmt Anlege-Sicherheitsthermostat.*
- **Termostato de seguridad de contacto precableado.**

Code	Price	Class	Packaging
580000U	57,63 €	VA	1 / 8

## ■ AC 613 SU



- **Termostato di sicurezza con sonda ad immersione precablato.**
- *Pre-wired security thermostat with immersion probe.*
- **Thermostat de sécurité avec sonde à immersion, pré-câblé.**
- *Vorverklemmt Sicherheitsthermostat mit Tauchhülse.*
- **Termostato de seguridad con sonda de inmersión precableado.**

Code	Price	Class	Packaging
580001U	75,62 €	VA	1 / 8

**CBL 01**


- Scatola di cablaggio con scheda elettrica per regolazione a punto fisso.
- Wiring box with electric card for fixed point adjustment.
- Boîtier de câblage avec carte électrique pour régulation à point fixe.
- Anschlusskasten mit Platine zur festen Temperaturregelung.
- Caja de cableado con tarjeta eléctrica para ajuste a punto fijo.

Code	Size	Price	Class	Packaging
501828I	230 V AC	75,73 €	VA	4 / 32

**AUM 01**


- Kit alta temperatura per UNIMIX / UNIMIX-C con collettori semplici.
- High temperature kit for UNIMIX / UNIMIX-C with plain manifolds.
- Kit haute température pour UNIMIX / UNIMIX-C avec collecteurs simples.
- Hochtemperatur-Bausatz für UNIMIX / UNIMIX-C mit Heizkreise Verteiler.
- Kit alta temperatura para UNIMIX / UNIMIX-C con colectores simples.

Code	Ways	Size	Price	Class	Packaging
500456	3	EUROK	146,62 €	NL	1

**AUM 11 D/S**


- Kit alta temperatura per UNIMIX / UNIMIX-C con collettori semplici e valvole a sfera diritte (D) o a squadra (S).
- High temperature kit for UNIMIX / UNIMIX-C with plain manifolds and straight (D) or angle (S) ball valves.
- Kit haute température UNIMIX / UNIMIX-C avec collecteurs simples et vannes à bille droites (D) ou équerre (S).
- Hochtemperatur-Bausatz für UNIMIX / UNIMIX-C mit Heizkreise Verteiler und Kugelventilen Durchgangsform (D) oder Eckform (S).
- Kit alta temperatura para UNIMIX / UNIMIX-C con colectores simples y válvulas de bola rectas (D) o de escuadra (S).

Code	Included Accessories	Ways	Size	Price	Class	Packaging
500456D	Straight ball valves	3	EUROK	225,56 €	NL	1
500456S	Angle ball valves	3	EUROK	234,59 €	NL	1

**AUM 02**


- Kit alta temperatura per UNIMIX / UNIMIX-C con collettori intercettabili.
- High temperature kit for UNIMIX / UNIMIX-C with manifolds with isolation valves.
- Kit haute température pour UNIMIX / UNIMIX-C avec collecteurs avec des vannes d'interception.
- Hochtemperatur-Bausatz für UNIMIX / UNIMIX-C mit Verteiler mit Absperbareventilen.
- Kit alta temperatura para UNIMIX / UNIMIX-C con colectores con válvulas de cierre.

Code	Ways	Size	Price	Class	Packaging
500586	3	EUROK	278,01 €	NL	1

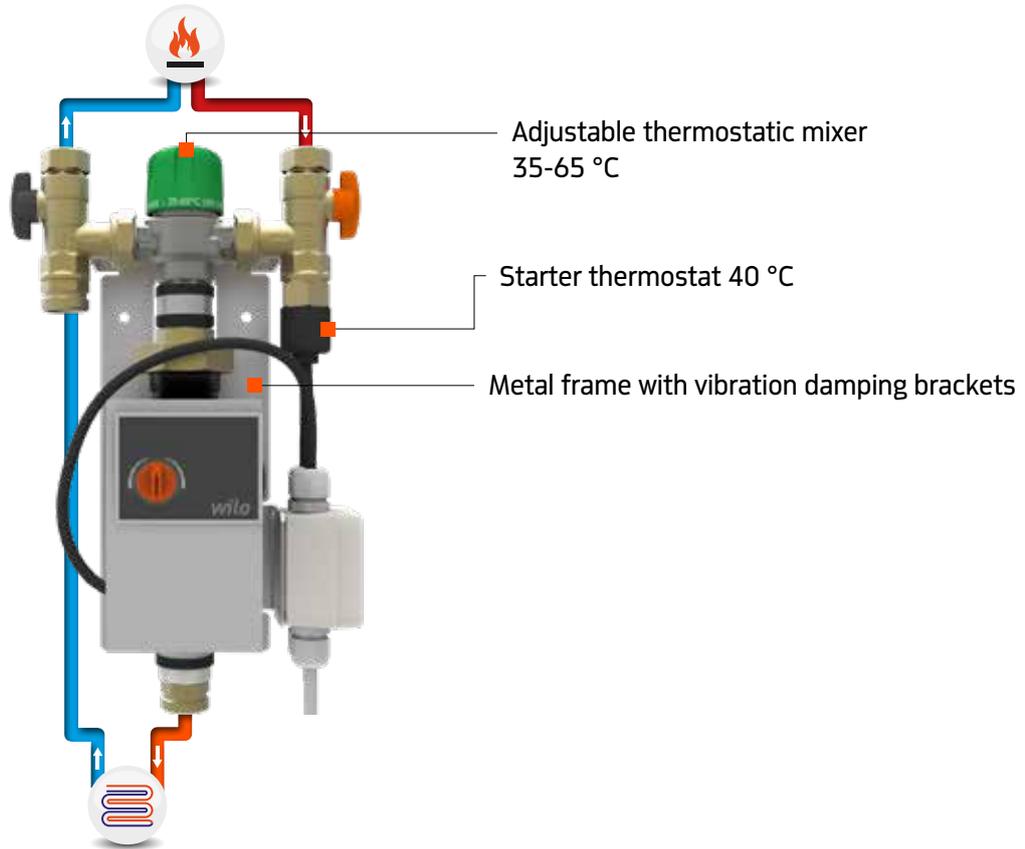
**AUM 12 D/S**


- Kit alta temperatura per UNIMIX / UNIMIX-C con collettori intercettabili con valvole a sfera diritte (D) o a squadra (S).
- High temperature kit for UNIMIX / UNIMIX-C with manifolds with isolation valves and straight (D) or angle (S) ball valves.
- Kit haute température pour UNIMIX / UNIMIX-C avec collecteurs avec des vannes d'interception et vannes à bille droites (D) ou équerre (S).
- Hochtemperatur-Bausatz für UNIMIX / UNIMIX-C mit Verteiler mit Absperbareventilen und Kugelventilen Durchgangsform (D) oder Eckform (S).
- Kit alta temperatura para UNIMIX / UNIMIX-C con colectores con válvulas de cierre y válvulas de bola rectas (D) o a de escuadra (S).

Code	Included Accessories	Ways	Size	Price	Class	Packaging
500586D	Straight ball valves	3	EUROK	356,96 €	NL	1
500586S	Angle ball valves	3	EUROK	365,99 €	NL	1

# UNIFLOOR

The UNIFLOOR unit is a compact system for mixing and distribution to small radiant underfloor systems. The thermostatic mixer keeps the supply temperature at the set value rapidly and precisely. The high-efficiency electronic pump sends the mixed fluid to the components, supplying the necessary head. A normally open thermostat guarantees pump operation only when the boiler fluid is at a sufficiently high temperature, and prevents cold fluid from being delivered to the radiant system. Two shutoff valves on the inlets facilitate initial connection and maintenance operations. UNIFLOOR is supplied installed on a metal frame with vibration damping brackets, pre-wired to the junction box, and is used to serve a single radiant circuit.



## UF 01



- Unità di miscelazione e distribuzione con/senza pompa elettronica a velocità variabile da 130 mm per singolo circuito radiante UNIFLOOR.
- Mixing and distribution unit with/without 130 mm variable speed electronic pump for single radiant circuit UNIFLOOR.
- Unité de mélange et distribution avec/sans pompe électronique à vitesse variable de 130 mm pour single circuit radiant UNIFLOOR.
- Misch- und Verteilungs-Modul UNIFLOOR mit/ohne elektronischer Pumpe mit variabler Geschwindigkeit von 130 mm für einzel Flachheizung-Schaltung.
- Unidad de mezcla y distribución UNIFLOOR con/sin bomba electrónica de velocidad variable de 130 mm para circuito radiante único.

Code	Pump	Range	Price	Class	Packaging
506717WP		35-65 °C	306,22 €	NL	1
506717W	WILO4F	35-65 °C	558,35 €	NL	1

## AC 4615 N



- Raccordo portatermometro per derivazioni.
- Thermometer fitting for junctions.
- Raccord porte-thermomètre pour dérivations.
- Anschlussstück mit Thermometer.
- Racor con termómetro para derivaciones.

Code	Size	Color	Price	Class	Packaging
500804	EUROK	■	14,07 €	NJ	10 / 80

## WILO4F



ErP

- **Circolatore elettronico a velocità variabile (Conforme alla direttiva europea 2009/125/CE - ErP ,Energy related Products').**
- *Variable speed electronic circulator (In accordance with European Directive 2009/125/CE - ErP "Energy related Products").*
- **Circulateur électronique à vitesse variable (Conforme à la Directive Européenne 2009/125/CE - ErP "Energy related Products").**
- *Elektronische Umwälzpumpe mit variabler Geschwindigkeit (Entspricht der Europäischen Richtlinie 2009/125/CE - ErP "Energy related Produkts").*
- **Circulador electrónico de velocidad variable (Conforme a la directiva europea 2009/125/CE - ErP ,Energy related Products').**

Code	Size	Head loss	Price	Class	Packaging
WILO4F-110	1" - 110 mm	6 m	259,49 €	HK	1 / 4
WILO4F	1"1/2 - 130 mm	6 m	236,64 €	HK	3
WILO4F-180	1"1/2 - 180 mm	6 m	255,00 €	HK	5

## WILO3F



ErP

- **Circolatore standard a 3 velocità.**
- *3-speed standard circulator.*
- **Circulateur standard à 3 vitesses.**
- *Umwälzpumpe mit 3 Geschwindigkeitsstufen.*
- **Circulador estándar de 3 velocidades.**

Code	Size	Head loss	Price	Class	Packaging
WILO3F	1"1/2 - 130 mm	6 m	164,00 €	HK	5
WILO3F-180	1"1/2 - 180 mm	6 m	175,00 €	HK	1

## AC 633



- **Distanziatore filettato per pompe.**
- *Threaded spacer for pumps.*
- **Ecarteur fileté pour pompes.**
- *Zwischenstück mit Gewinde für Pumpen.*
- **Distanciador roscado para bombas.**

Code	Size	Price	Class	Packaging
500933	1"1/2 - 130 mm	14,11 €	HK	25
500934	1"1/2 - 180 mm	16,67 €	HK	20

## AC 626



- **Bocchettone a tenuta morbida per collegamento circolatore.**
- *Soft seal pipe union for pump connection.*
- **Tubulure de raccordement à joint souple étanche pour raccordement à la pompe.**
- *Pumpen Anschlussverschraubung.*
- **Manguito de unión con junta blanda para la conexión de la bomba.**

Code	Size	Price	Class	Packaging
520022	1"1/2 F x 1" M	9,94 €	NJ	8 / 64

# IC•BOX

IC-BOX is a system for the control of a single radiant system (underfloor, wall, or ceiling mounted) branching directly from the column and without the need for mixing valves or booster pumps. The simple design allows it to be housed in a compact case, making it suitable for serving small environments in new or existing systems. The IC-BOX range includes modules fitted with return temperature control "RTL", suitable for high supply temperatures, and module with only control of ambient temperature "TA", suitable for low supply temperature applications. IC-BOX modules 1, 2 and 3 need to be installed on the return line of the radiant circuit controlling them, and due to the presence of the "RTL" device, require spiral circuits to ensure a uniform temperature of the underfloor heating system. When choosing and installing IC-BOX, take care to observe applicable standards (such as European standard EN 1264), any local design and installation requisites, and the specifications from manufacturers of the installed floor coverings.

## IC•BOX 1



## IC•BOX 2



## IC•BOX 3



- High-temperature systems
- Spiral circuit
- Installation on return

## IC•BOX 4



## IC•BOX 5



- Low-temperature systems
- Spiral or coil circuit
- Installation on flow/return

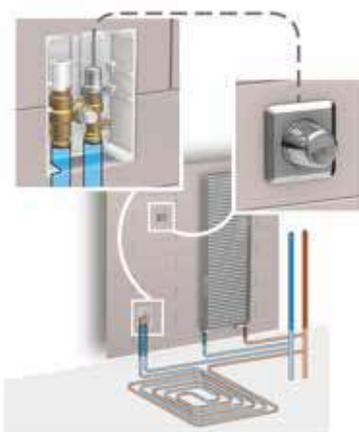


All versions are available in recessed accessible cabinets and cover with white (RAL9010) or chrome finish

## IC-BOX 1



- **Dispositivo di controllo della temperatura di ritorno regolabile 15-45 °C. Completo di:**
  - valvola termostattizzabile per testa con sensore remoto o testina elettrotermica collegata a termostato ambiente;
  - valvola manuale di sfianto aria;
  - vassetta ad incasso.
- **Adjustable return temperature controller 15-45 °C. Complete with:**
  - valve suitable to thermostatic control by head with remote sensor or to control by electrothermal head connected to room thermostat;
  - manual air vent valve;
  - recessed cabinet.
- **Dispositif de contrôle de la température de retour réglable de 15 à 45 °C. Complet de:**
  - vanne thermostatizable pour tête avec capteur à distance ou tête électrothermique reliée à un thermostat ambiant;
  - purgeur manuel d'air;
  - caisse à encastrement.
- **Steuergerät der einstellbaren Rücklauftemperatur 15-45 °C. Komplett mit:**
  - Thermostatventil für Kopf mit Fernsensor oder elektrothermischer Kopf, der mit dem Raumthermostat verbunden ist;
  - Entlüftungsventil manuell;
  - Einbaugeschäuse.
- **Dispositivo de control de la temperatura de retorno regulable 15-45 °C. Completo con:**
  - válvula termo-estabilizadora para cabeza con sensor remoto o cabeza electro-térmica conectado al termostato ambiente;
  - válvula purgadora manual;
  - caja empotrada.



Code	Version	Range	Color	Price	Class	Packaging
506602	RTL - TA	15-45 °C	□	107,74 €	BH	1 / 16
506602CR	RTL - TA	15-45 °C	■	121,13 €	BH	1 / 16

**IC-BOX 2**


- **Dispositivo di controllo della temperatura di ritorno regolabile 15-45 °C. Completo di:**
  - valvola termostattabile per testa con comando e sensore incorporati;
  - valvola manuale di sfianto aria;
  - cassetta ad incasso.
- *Adjustable return temperature controller 15-45 °C. Complete with:*
  - valve suitable to thermostatic control by head with incorporated sensor;
  - manual air vent valve;
  - recessed cabinet.
- **Dispositif de contrôle de la température de retour réglable de 15 à 45°C. Complet de:**
  - vanne thermostatizable pour tête avec commande et capteur incorporés;
  - purgeur manuel d'air;
  - caisse à encastrement.
- *Steuergerät der einstellbaren Rücklauftemperatur 15-45 °C. Komplett mit:*
  - Thermostatventil für eingebauten Steuerkopf und Sensor;
  - Entlüftungsventil manuell;
  - Einbaugehäuse.
- **Dispositivo de control de la temperatura de retorno regulable 15-45 °C. Completo con:**
  - válvula termo-estabilizadora para cabeza con mando y sensor incorporados;
  - válvula purgadora manual;
  - caja empotrada.

Code	Version	Range	Color	Price	Class	Packaging
506603	RTL - TA	15-45 °C	<input type="checkbox"/>	107,74 €	BH	1 / 16
506603CR	RTL - TA	15-45 °C	<input checked="" type="checkbox"/>	121,13 €	BH	1 / 16


**IC-BOX 3**


- **Dispositivo di controllo della temperatura di ritorno regolabile 15-45 °C. Completo di:**
  - valvola manuale di sfianto aria
  - cassetta ad incasso.
- *Adjustable return temperature controller 15-45 °C. Complete with:*
  - manual air vent valve;
  - recessed cabinet.
- **Dispositif de contrôle de la température de retour réglable de 15 à 45°C. Complet de:**
  - purgeur manuel d'air;
  - caisse à encastrement.
- *Steuergerät der einstellbaren Rücklauftemperatur 15-45 °C. Komplett mit:*
  - Entlüftungsventil manuell;
  - Einbaugehäuse.
- **Dispositivo de control de la temperatura de retorno regulable 15-45 °C. Completo con:**
  - válvula purgadora manual
  - caja empotrada.

Code	Version	Range	Color	Price	Class	Packaging
506604	RTL	15-45 °C	<input type="checkbox"/>	102,13 €	BH	1 / 16
506604CR	RTL	15-45 °C	<input checked="" type="checkbox"/>	115,50 €	BH	1 / 16

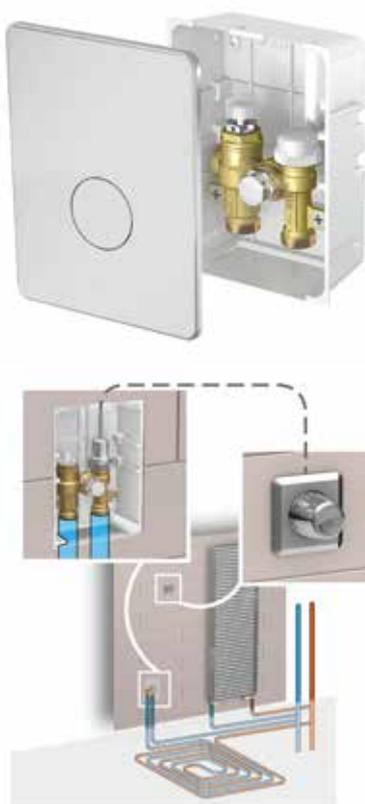
■ IC-BOX 4



- **Dispositivo di regolazione della temperatura ambiente. Completo di:**
  - detentore a doppia regolazione micrometrica;
  - valvola manuale di sfiato aria;
  - cassetta ad incasso.
- *Room temperature adjustment device. Complete with:*
  - double micrometric adjustment lockshield
  - manual air vent valve
  - recessed cabinet.
- **Dispositif pour le réglage de la température ambiante. Complet de:**
  - détendeur à double réglage micrométrique;
  - purgeur manuel d'air;
  - caisse à encastrement.
- *Vorrichtung zur Regelung der Zimmertemperatur. Komplett mit:*
  - Rücklaufverschraubung mit doppelter Feineinstellung;
  - Entlüftungsventil manuell;
  - Einbaugeschäuse.
- **Dispositivo para la regulación de la temperatura ambiente. Completo con:**
  - detentor de regulación doble micrométrica;
  - válvula purgadora manual;
  - caja empotrada.

Code	Version	Color	Price	Class	Packaging
506606	TA	□	78,00 €	BH	1 / 16
506606CR	TA	■	91,49 €	BH	1 / 16

■ IC-BOX 5



- **Dispositivo di regolazione della temperatura ambiente. Completo di:**
  - detentore a doppia regolazione micrometrica;
  - valvola manuale di sfiato aria;
  - cassetta ad incasso.
- *Room temperature adjustment device. Complete with:*
  - double micrometric adjustment lockshield;
  - manual air vent valve;
  - recessed cabinet.
- **Dispositif pour le réglage de la température ambiante. Complet de:**
  - détendeur à double réglage micrométrique;
  - purgeur manuel d'air;
  - caisse à encastrement.
- *Vorrichtung zur Regelung der Zimmertemperatur. Komplett mit:*
  - Rücklaufverschraubung mit doppelter Feineinstellung;
  - Entlüftungsventil manuell;
  - Einbaugeschäuse.
- **Dispositivo para la regulación de la temperatura ambiente. Completo con:**
  - detentor de regulación doble micrométrica;
  - válvula purgadora manual;
  - caja empotrada.

Code	Version	Color	Price	Class	Packaging
506607	TA	□	78,00 €	BH	1 / 16
506607CR	TA	■	91,49 €	BH	1 / 16

**T 5000**


- Testa termostatica con comando e sensore a espansione di liquido incorporati. Isteresi 0,5 K.
- Thermostatic head with incorporated command and liquid expansion sensor. Hysteresis 0.5 K.
- Tête thermostatique avec commande et senseur à expansion de liquide incorporés. Hystérésis 0,5 K.
- Thermostat-Kopf mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler. Hysterese 0,5 K.
- Cabeza termostática con mando y sensor de expansión de líquido incorporados. Histéresis 0,5 K.



Code	Size	D	W	Z	Color	Price	Class	Packaging
501172	M30 x 1,5	0.25 K	0.75 K	30 min	□	13,99 €	AA	10 / 80

**T 5000 CHROME**


- Testa termostatica con comando e sensore a espansione di liquido incorporati.
- Thermostatic head with incorporated command and liquid expansion sensor.
- Tête thermostatique avec commande et senseur à expansion de liquide incorporés.
- Thermostat-Kopf mit eingebauten Steuerung und Flüssigkeitsausdehnung Fühler.
- Cabeza termostática con mando y sensor de expansión de líquido incorporados.

Code	Size	Z	Range	Color	Price	Class	Packaging
501172C	M30 x 1,5	< 40 min	6,5-28 °C	■	32,92 €	AA	10 / 80

**T 5030**

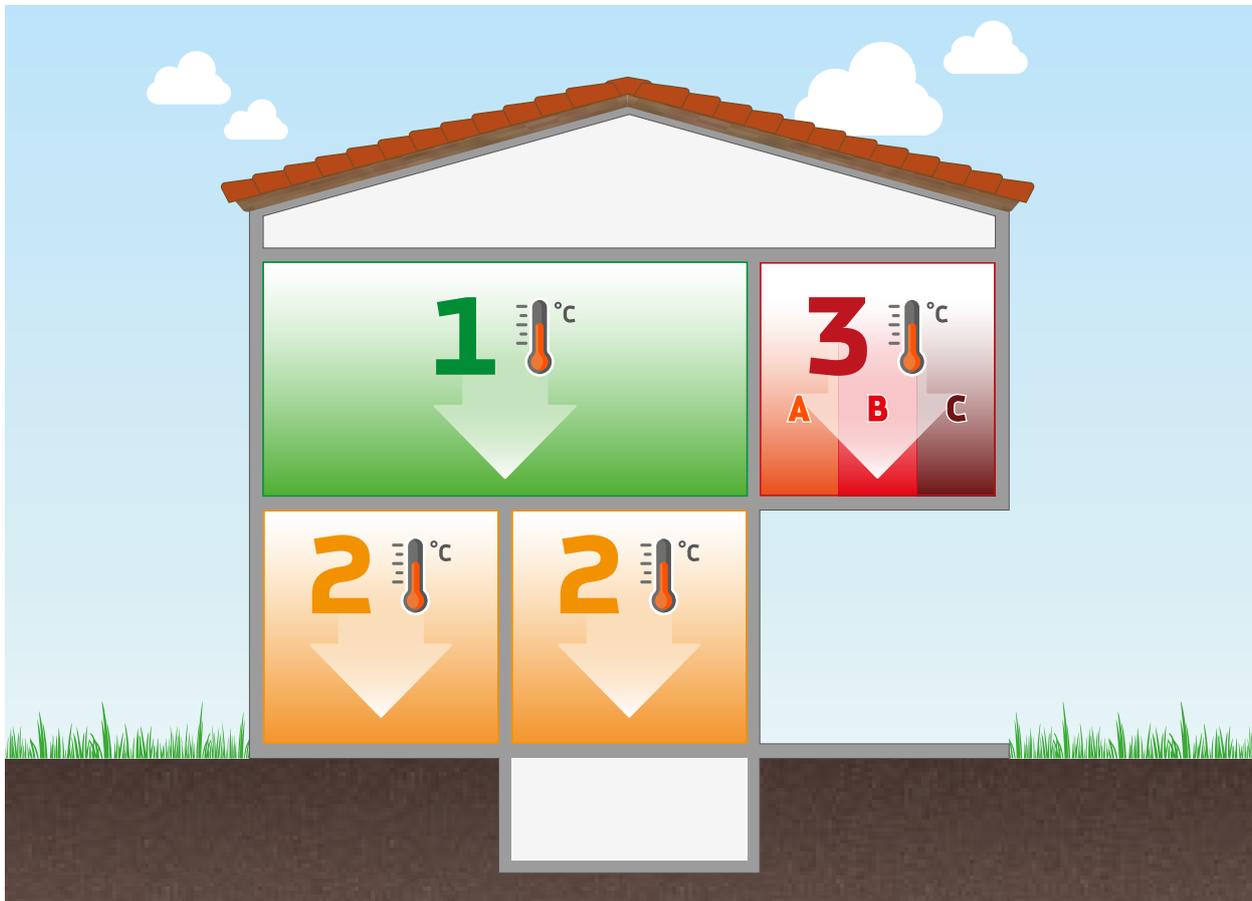

- Testa termostatica con sensore remoto e comando ad incasso.
- Thermostatic head with remote sensor and concealed command.
- Tête thermostatique avec senseur à distance commande d'encaissement.
- Thermostat-Kopf mit Fernfühler und UP-Steuerung.
- Cabeza termostática con sensor remoto y mando empotrable.

Code	Size	Z	Range	Length	Price	Class	Packaging
501179	M30 x 1,5	< 40 min	6,5-28 °C	2 m	50,45 €	AA	2 / 16
501180	M30 x 1,5	< 40 min	6,5-28 °C	5 m	57,05 €	AA	2 / 16

# FLOOR SYSTEMS

## MINIMUM THERMAL RESISTANCE OF THE INSULATION LAYER ACCORDING TO UNI EN 1264-4 STANDARD

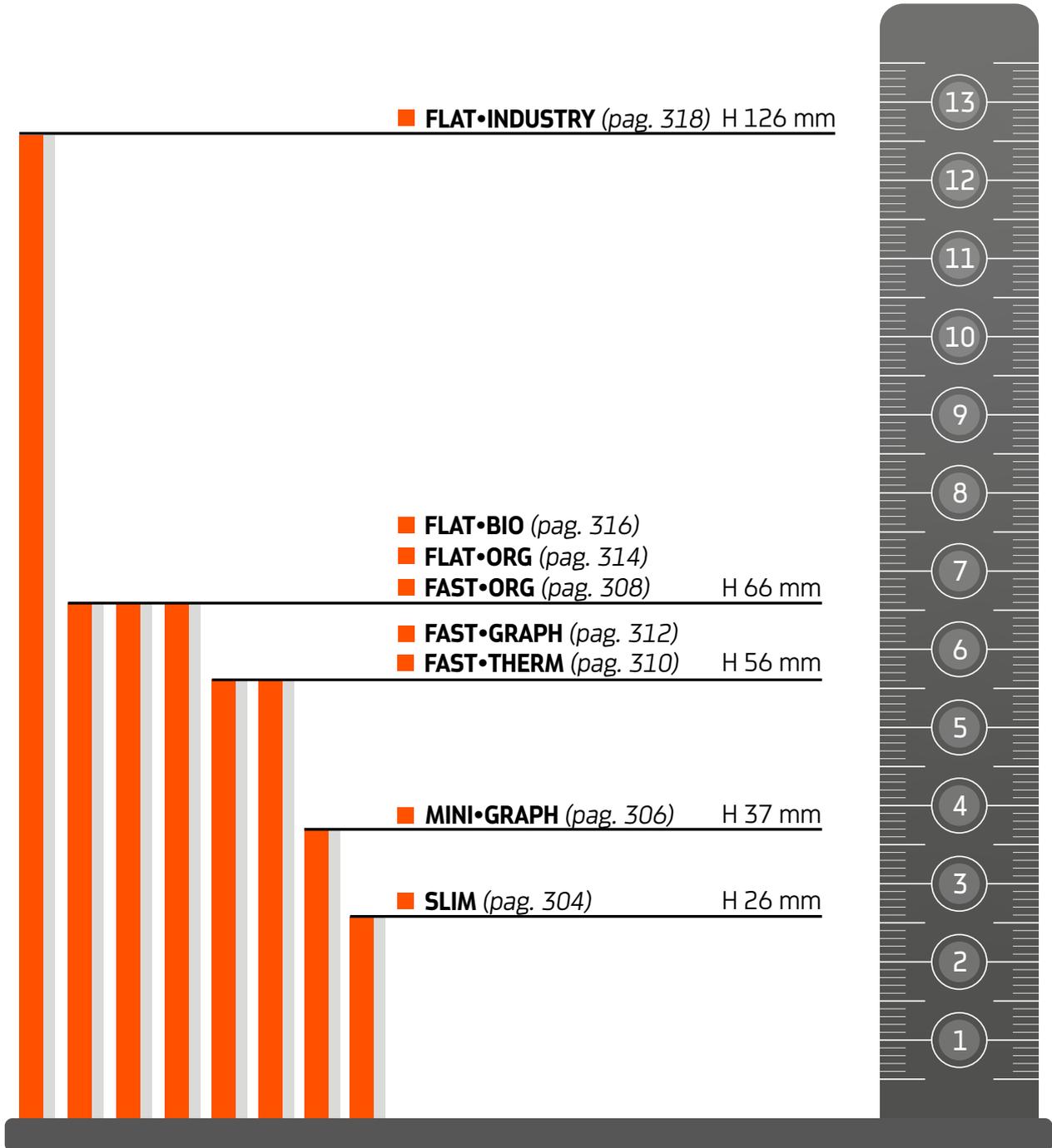
To limit heat dispersions to the underlying room through the floor, standard UNI EN 1264-4 recommends a minimum thermal resistance value ( $R_d$ ) for the insulation layers (panel) according to thermal conditions below the heated room.



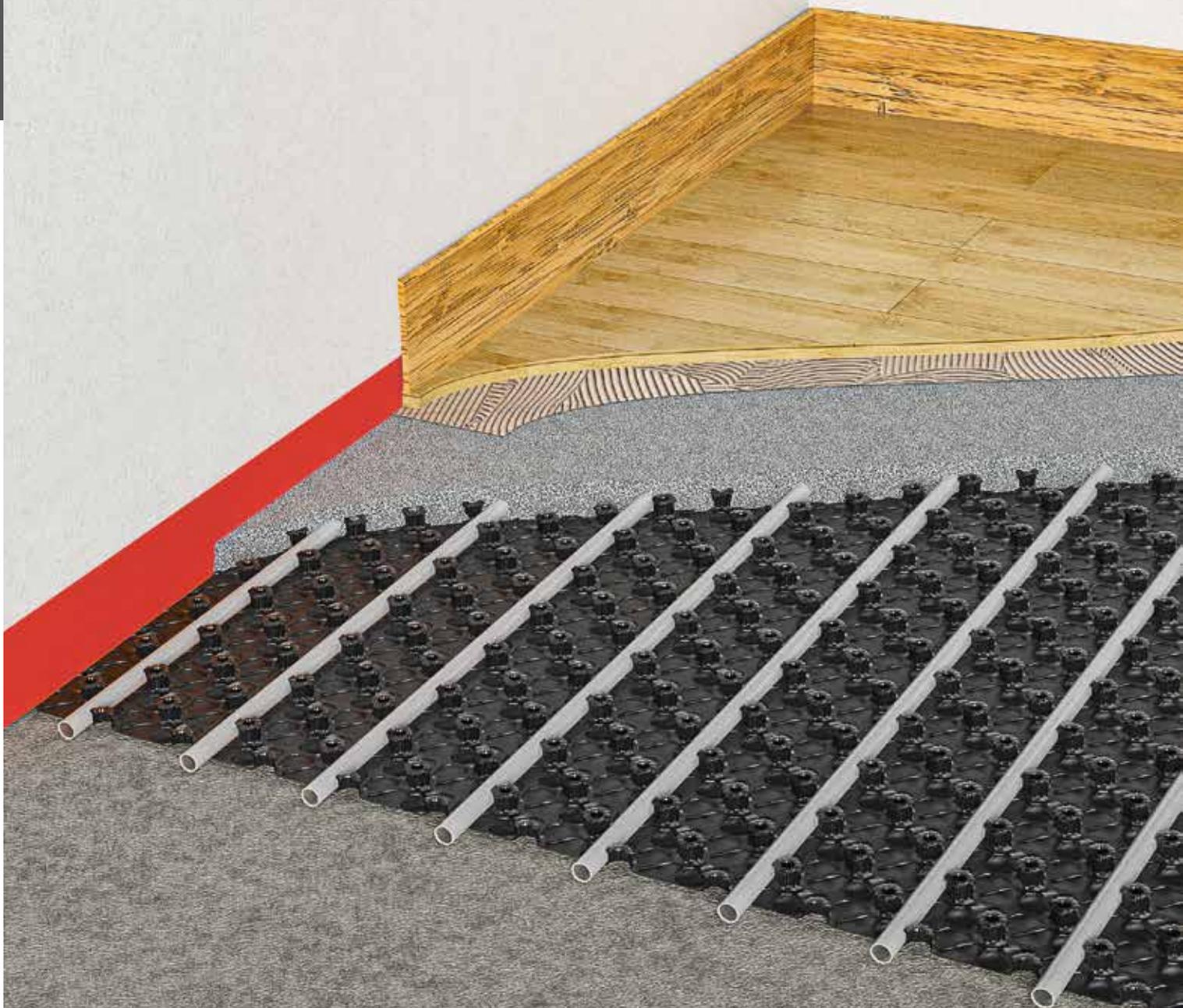
	1	2	3		
Application case	Underlying room heated	*Underlying room not heated, non-continuously heated or directly on the ground.	Underlying outdoor temperature		
			3A	3B	3C
			Design outdoor T. $T_d \geq 0 \text{ }^\circ\text{C}$	Design outdoor T. $0 \text{ }^\circ\text{C} > T_d \geq -5 \text{ }^\circ\text{C}$	Design outdoor T. $-5 \text{ }^\circ\text{C} > T_d \geq -15 \text{ }^\circ\text{C}$
Min. thermal resistance of the insulation layer $R_d$ ( $\text{m}^2 \text{ k/W}$ )	<b>0,75</b>	<b>1,25</b>	<b>1,25</b>	<b>1,50</b>	<b>2,00</b>

\* With a groundwater level  $\leq 5 \text{ m}$ , the level should be increased

MINIMUM HEIGHT OF FLOOR SYSTEMS



Minimum installation space	 26 mm
Multiple laying steps	5 cm
Pipes that can be installed	Ø16/2 - Ø17/2 mm



**⊕ PLUS**

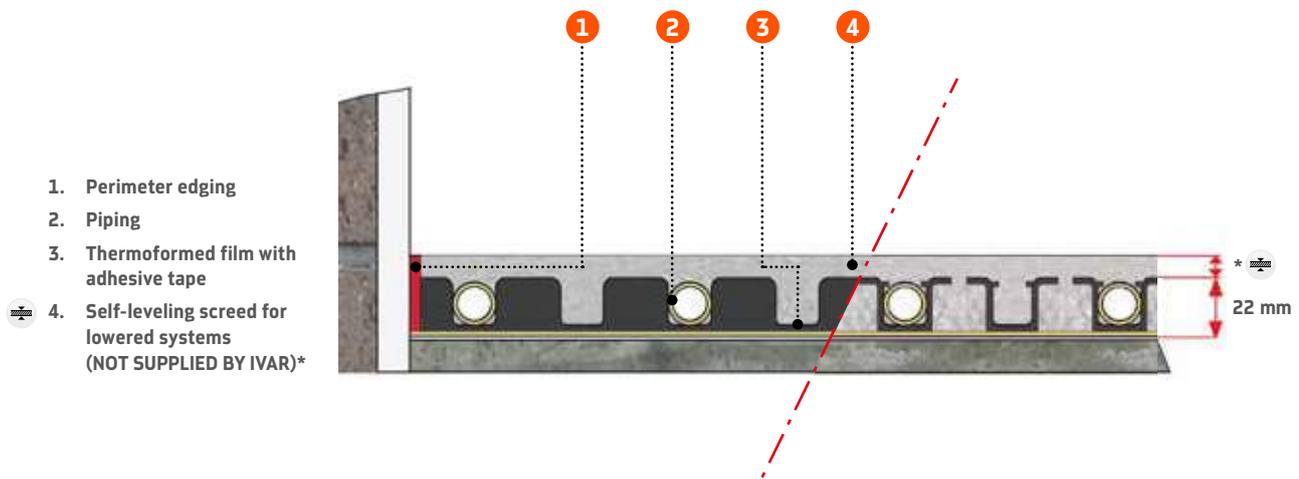
- Suited for lowered installations with reduced thermal inertia
- Light system that can also be installed in lofts or in areas with low load resistance
- Compatible with piping with standard diameter of 16 or 17 mm

**SLIM**



- Pellicola termoformata (senza strato isolante) con biadesivo.
  - Dimensioni utili: 120 x 80 cm
  - Film plastico: 1 mm
- Thermoformed film (without insulating layer) with double-sided tape.
  - Useful dimensions: 120 x 80 cm
  - Plastic film: 1 mm
- Film thermoformée (sans couche isolante) avec ruban adhésif double face.
  - Dimensions utiles: 120 x 80 cm
  - Film plastique: 1 mm
- Folie (ohne Isolierschicht), mit doppelseitigem Klebeband.
  - Nützliche Abmessungen: 120 x 80 cm
  - Kunststoffolie: 1 mm
- Película (sin capa aislante), con cinta adhesiva de doble cara.
  - Dimensiones útiles: 120 x 80 cm
  - Película de plástico: 1 mm

Code	Total thickness	Pcs per package	Price	Class	Packaging
SLIM22	22 mm	11 pcs	25,209 €/m <sup>2</sup>	HU	10,56 m <sup>2</sup>



1. Perimeter edging
2. Piping
3. Thermoformed film with adhesive tape
4. Self-leveling screed for lowered systems (NOT SUPPLIED BY IVAR)\*



• Pipe >> p. 113-115



• Holding bend >> p. 328



• Insulating sheath >> p. 328



• Perimeter edging >> p. 328



• Expansion joint >> p. 329

\* Suggested self-leveling screed



**NOVOPLAN MAXI**  
h = 4 mm



**NE 499**  
h = 5 mm



**PARIS SLIM**  
h = 5 mm



**SM 485**  
h = 5 mm

Minimum installation space	 37 mm
Multiple laying steps	5 cm
Pipes that can be installed	Ø16/2 - Ø17/2 mm



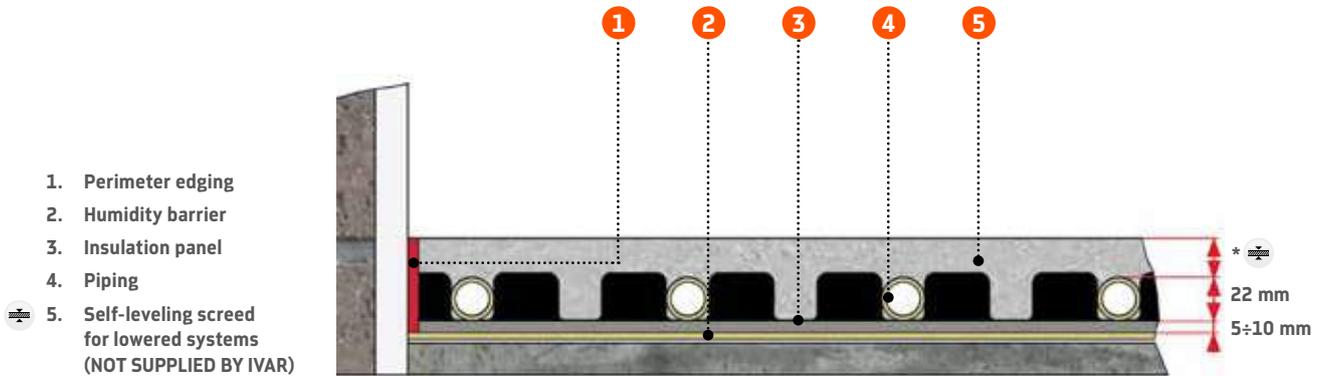
**+** PLUS

- Easy to install as a traditional system and with dimensions comparable to a dry system
- The high-density graphite insulating layer thermally separates the screed from the slab, reducing the thermal inertia of the system
- High compressive strength for a robust and easy to install panel

**MINIGRAPH**


- **Pannello termoformato in polistirene espanso con grafite.**
  - Dimensioni utili: 140 x 80 cm
  - Film plastico: 600 µm
  - Classe materiale (UNI EN 13163): EPS 400
  - Conducibilità termica (EN 12667):  $d$  0,030 W/m K
  - Resistenza a compressione al 10% di deformazione (UNI EN 826): 400 kPa
- **Thermoformed panel in expanded polystyrene with graphite.**
  - Useful dimensions: 140 x 80 cm
  - Plastic film: 600 µm
  - Material class (UNI EN 13163): EPS 400
  - Thermal conductivity (EN 12667):  $d$  0,030 W/m K
  - Compressive strength at 10% deformation (UNI EN 826): 400 kPa
- **Panneau thermoformé en polystyrène expansé avec graphite.**
  - Dimensions utiles: 140 x 80 cm
  - Film plastique: 600 µm
  - Classe de matériau (UNI EN 13163): EPS 400
  - Conductivité thermique (EN 12667):  $d$  0,030 W/m K
  - Résistance à la compression à 10% de déformation (UNI EN 826): 400 kPa
- **Thermoformplatte aus expandiertem Polystyrol mit Graphit.**
  - Nützliche Abmessungen: 140 x 80 cm
  - Kunststoffolie: 600 µm
  - Materialklasse (UNI EN 13163): EPS 400
  - Wärmeleitfähigkeit (EN 12667):  $d$  0,030 W/m K
  - Druckfestigkeit bei 10% der Verformung (UNI EN 826): 400 kPa
- **Panel termoformato de poliestireno expandido con grafito.**
  - Dimensiones útiles: 140 x 80 cm
  - Película de plástico: 600 µm
  - Clase de material (UNI EN 13163): EPS 400
  - Conductividad térmica (EN 12667):  $d$  0,030 W/m K
  - Resistencia a la compresión al 10% de deformación (UNI EN 826): 400 kPa

Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Price	Class	Packaging
MINIGRAPH5	5 mm	27 mm	0,33 m <sup>2</sup> K/W	14 pcs	17,141 €/m <sup>2</sup>	HU	15,68 m <sup>2</sup>
MINIGRAPH10	10 mm	32 mm	0,50 m <sup>2</sup> K/W	22 pcs	18,928 €/m <sup>2</sup>	HU	24,64 m <sup>2</sup>



• Pipe >> p. 113-115



• Holding bend >> p. 328



• Insulating sheath >> p. 328



• Perimeter edging >> p. 328



• Expansion joint >> p. 329



• Humidity barrier >> p. 329

\* **Suggested self-leveling screed**



**TOPCEM PRONTO**  
h = 30 mm



**NE 499**  
h = 10 mm



**PARIS SLIM**  
h = 10 mm



**SM 485**  
h = 15 mm

Minimum installation space

  $\geq 66 \text{ mm}$

Multiple laying steps

5 cm

Pipes that can be installed

$\text{Ø}16/2 - \text{Ø}17/2 \text{ mm}$



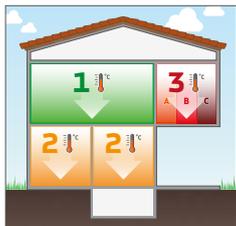
**⊕ PLUS**

- Easy to install
- Suitable for piping with 16 and 17 mm diameter
- Available in different thicknesses and thermal resistance values, compatible with all types of installation provided for by standard UNI EN 1264

**FAST-ORG**

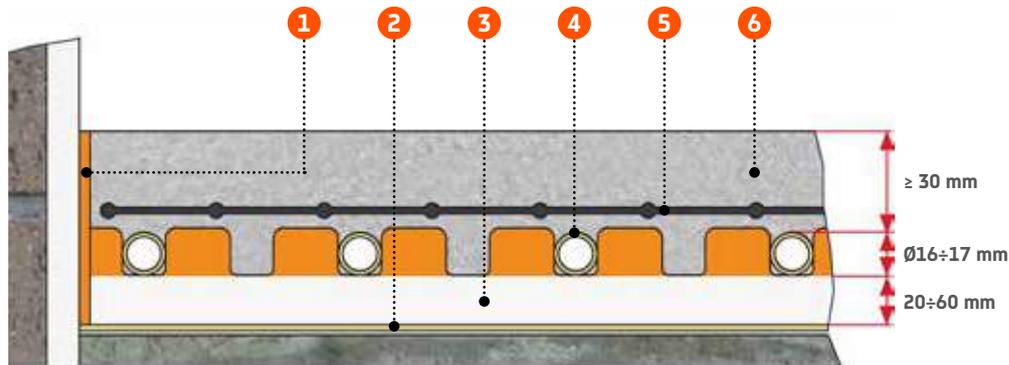

- **Pannello bugnato in polistirene espanso.**
  - Dimensioni utili: 140 x 80 cm
  - Film plastico: 170 µm
  - Classe materiale (UNI EN 13163): EPS 200
  - Conducibilità termica (EN 12667): d 0,033 W/m K
  - Resistenza a compressione al 10% di deformazione (UNI EN 826): 200 kPa
- **Ashlar panel in expanded polystyrene.**
  - Useful dimensions: 140 x 80 cm
  - Plastic film: 170 µm
  - Material class (UNI EN 13163): EPS 200
  - Thermal conductivity (EN 12667): d 0,033 W/m K
  - Compressive strength at 10% deformation (UNI EN 826): 200 kPa
- **Panneau bossage en polystyrène expansé.**
  - Dimensions utiles: 140 x 80 cm
  - Film plastique: 170 µm
  - Classe de matériau (UNI EN 13163): EPS 200
  - Conductivité thermique (EN 12667): d 0,033 W/m K
  - Résistance à la compression à 10% de déformation (UNI EN 826): 200 kPa
- **Noppenplatte aus expandiertem Polystyrol.**
  - Nützliche Abmessungen: 140 x 80 cm
  - Kunststoffolie: 170 µm
  - Materialklasse (UNI EN 13163): EPS 200
  - Wärmeleitfähigkeit (EN 12667): d 0,033 W/m K
  - Druckfestigkeit bei 10% der Verformung (UNI EN 826): 200 kPa
- **Panel almohadillado de poliestireno expandido.**
  - Dimensiones útiles: 140 x 80 cm
  - Película de plástico: 170 µm
  - Clase de material (UNI EN 13163): EPS 200
  - Conductividad térmica (EN 12667): d 0,033 W/m K
  - Resistencia a la compresión al 10% de deformación (UNI EN 826): 200 kPa

**FOCUS: UNI EN 1264-4**  
 >> p. 302



	Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Price	Class	Packaging
■	FAST20-ORG	20 mm	45 mm	0,79 m² K/W	16 pcs	11,845 €/m²	HU	17,92 m²
■	FAST30-ORG	30 mm	55 mm	1,09 m² K/W	12 pcs	15,28 €/m²	HU	13,44 m²
■ ■	FAST40-ORG	40 mm	65 mm	1,39 m² K/W	10 pcs	18,832 €/m²	HU	11,20 m²
■ ■ ■	FAST50-ORG	50 mm	75 mm	1,69 m² K/W	8 pcs	22,481 €/m²	HU	8,96 m²
■ ■ ■ ■	FAST60-ORG	60 mm	85 mm	2,00 m² K/W	7 pcs	24,064 €/m²	HU	7,84 m²

1. Perimeter edging
2. Humidity barrier
3. Insulation panel
4. Piping
5. Electro-welded mesh
6. Screed with additive



• Pipe >> p. 113-115



• Holding bend >> p. 328



• Insulating sheath >> p. 328



• Perimeter edging >> p. 328



• Expansion joint >> p. 329



• Humidity barrier >> p. 329



• Clips >> p. 330



• Reinforcement fibres >> p. 332



• Additive for screed >> p. 332



• Electro-welded net >> p. 330

Minimum installation space

  $\geq 56 \text{ mm}$

Multiple laying steps

5 cm

Pipes that can be installed

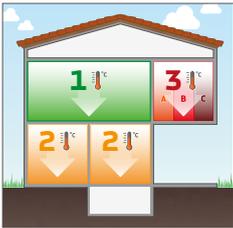
$\text{Ø}16/2 - \text{Ø}17/2 \text{ mm}$

**+** PLUS

- Thanks to the heat-formed ashlar panel with undercut, the system ensures easy coupling between the panels and firm fixing of the pipe, with no additional clip
- Ashlars with extremely high resistance to being walked on in order to make it easier to lay the system
- It can also be installed in tight spaces thanks to the lowered version 10 mm thick

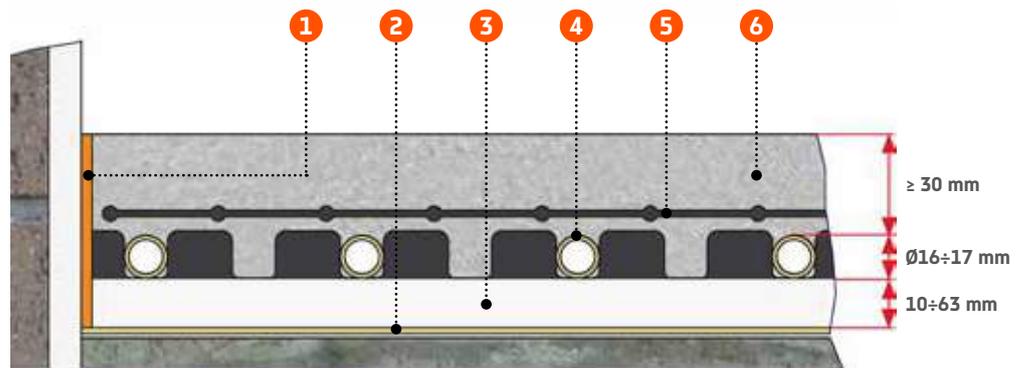
**THERM**


- **Pannello termoformato in polistirene espanso.**
  - Dimensioni utili: 140 x 80 cm
  - Film plastico: 600 µm
  - Classe materiale (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-63 mm)
  - Conducibilità termica (EN 12667): d 0,033 W/m K (10 mm); d 0,034 W/m K (20-63 mm)
  - Resistenza a compressione al 10% di deformazione (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-63 mm)
- **Thermoformed panel in expanded polystyrene.**
  - Useful dimensions: 140 x 80 cm
  - Plastic film: 600 µm
  - Material class (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-63 mm)
  - Thermal conductivity (EN 12667): d 0,033 W/m K (10 mm); d 0,034 W/m K (20-63 mm)
  - Compressive strength at 10% deformation (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-63 mm)
- **Panneau thermoformé en polystyrène expansé.**
  - Dimensions utiles: 140 x 80 cm
  - Film plastique: 600 µm
  - Classe de matériau (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-63 mm)
  - Conductivité thermique (EN 12667): d 0,033 W/m K (10 mm); d 0,034 W/m K (20-63 mm)
  - Résistance à la compression à 10% de déformation (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-63 mm)
- **Thermoformplatte aus expandiertem Polystyrol.**
  - Nützliche Abmessungen: 140 x 80 cm
  - Kunststoffolie: 600 µm
  - Materialklasse (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-63 mm)
  - Wärmeleitfähigkeit (EN 12667): d 0,033 W/m K (10 mm); d 0,034 W/m K (20-63 mm)
  - Druckfestigkeit bei 10% der Verformung (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-63 mm)
- **Panel termoformato de poliestireno expandido.**
  - Dimensiones útiles: 140 x 80 cm
  - Película de plástico: 600 µm
  - Clase de material (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-63 mm)
  - Conductividad térmica (EN 12667): d 0,033 W/m K (10 mm); d 0,034 W/m K (20-63 mm)
  - Resistencia a la compresión al 10% de deformación (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-63 mm)

**FOCUS: UNI EN 1264-4**
**>> p. 302**


Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Price	Class	Packaging
THERM10	10 mm	32 mm	0,45 m² K/W	14 pcs	12,829 €/m²	HU	24,64 m²
THERM20	20 mm	42 mm	0,75 m² K/W	10 pcs	14,349 €/m²	HU	17,92 m²
THERM30	30 mm	52 mm	1,03 m² K/W	8 pcs	16,211 €/m²	HU	13,44 m²
THERM40	40 mm	62 mm	1,32 m² K/W	10 pcs	20,405 €/m²	HU	11,20 m²
THERM50	50 mm	72 mm	1,62 m² K/W	8 pcs	23,626 €/m²	HU	8,96 m²
THERM63	63 mm	85 mm	2,00 m² K/W	6 pcs	25,755 €/m²	HU	6,72 m²

1. Perimeter edging
2. Humidity barrier
3. Insulation panel
4. Piping
5. Electro-welded mesh
6. Screed with additive



• Pipe &gt;&gt; p. 113-115



• Holding bend &gt;&gt; p. 328



• Insulating sheath &gt;&gt; p. 328



• Perimeter edging &gt;&gt; p. 328



• Expansion joint &gt;&gt; p. 329



• Humidity barrier &gt;&gt; p. 329



• Clips &gt;&gt; p. 330



• Reinforcement fibres &gt;&gt; p. 332



• Additive for screed &gt;&gt; p. 332



• Electro-welded net &gt;&gt; p. 330

Minimum installation space

  $\geq 56 \text{ mm}$

Multiple laying steps

5 cm

Pipes that can be installed

$\text{Ø}16/2 - \text{Ø}17/2 \text{ mm}$

**+** PLUS

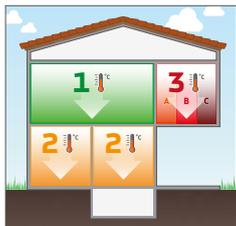
- Insulation panel made of polystyrene sintered with graphite and with heat-formed film
- Excellent thermal insulation even in the case of material with reduced thickness
- Superior class panel that combines the advantages of FAST-THERM with a higher-performing insulation material, thickness being equal

**GRAPH**



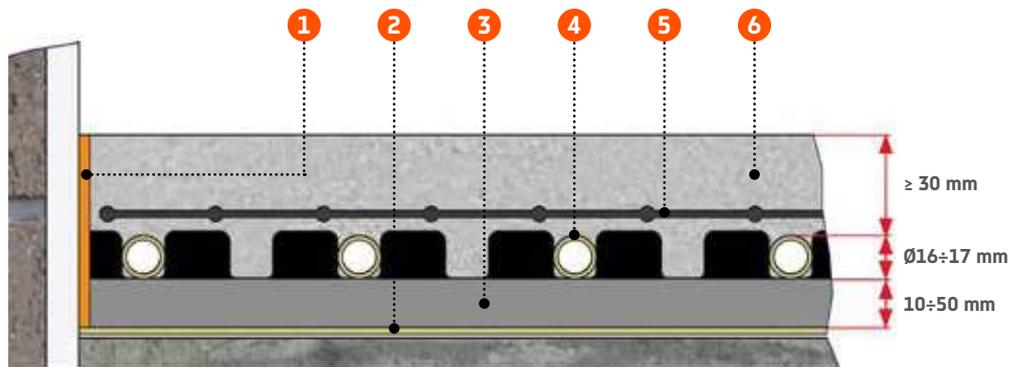
- **Pannello termoformato in polistirene espanso con grafite.**
  - Dimensioni utili: 140 x 80 cm
  - Film plastico: 600 µm
  - Classe materiale (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-50 mm)
  - Conducibilità termica (EN 12667): d 0,030 W/m K
  - Resistenza a compressione al 10% di deformazione (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-50 mm)
- **Thermoformed panel in expanded polystyrene with graphite.**
  - Useful dimensions: 140 x 80 cm
  - Plastic film: 600 µm
  - Material class (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-50 mm)
  - Thermal conductivity (EN 12667): d 0,030 W/m K
  - Compressive strength at 10% deformation (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-50 mm)
- **Panneau thermoformé en polystyrène expansé avec graphite.**
  - Dimensions utiles: 140 x 80 cm
  - Film plastique: 600 µm
  - Classe de matériau (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-50 mm)
  - Conductivité thermique (EN 12667): d 0,030 W/m K
  - Résistance à la compression à 10% de déformation (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-50 mm)
- **Thermoformplatte aus expandiertem Polystyrol mit Graphit.**
  - Nützliche Abmessungen: 140 x 80 cm
  - Kunststoffolie: 600 µm
  - Materialklasse (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-50 mm)
  - Wärmeleitfähigkeit (EN 12667): d 0,030 W/m K
  - Druckfestigkeit bei 10% der Verformung (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-50 mm)
- **Panel termoformato de poliestireno expandido con grafito.**
  - Dimensiones útiles: 140 x 80 cm
  - Película de plástico: 600 µm
  - Clase de material (UNI EN 13163): EPS 200 (10 mm); EPS 150 (20-50 mm)
  - Conductividad térmica (EN 12667): d 0,030 W/m K
  - Resistencia a la compresión al 10% de deformación (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-50 mm)

**FOCUS: UNI EN 1264-4**  
 >> p. 302



Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Price	Class	Packaging
GRAPH10	10 mm	32 mm	0,50 m² K/W	22 pcs	15,312 €/m²	HU	24,64 m²
GRAPH20	20 mm	42 mm	0,83 m² K/W	16 pcs	17,794 €/m²	HU	17,92 m²
GRAPH30	30 mm	52 mm	1,17 m² K/W	12 pcs	20,469 €/m²	HU	13,44 m²
GRAPH40	40 mm	62 mm	1,50 m² K/W	10 pcs	23,198 €/m²	HU	11,20 m²
GRAPH50	50 mm	72 mm	1,83 m² K/W	8 pcs	26,194 €/m²	HU	8,96 m²

1. Perimeter edging
2. Humidity barrier
3. Insulation panel
4. Piping
5. Electro-welded mesh
6. Screed with additive



• Pipe >> p. 113-115



• Holding bend >> p. 328



• Insulating sheath >> p. 328



• Perimeter edging >> p. 328



• Expansion joint >> p. 329



• Humidity barrier >> p. 329



• Clips >> p. 330



• Reinforcement fibres >> p. 332



• Additive for screed >> p. 332



• Electro-welded net >> p. 330

Minimum installation space	 $\geq 66 \text{ mm}$
Multiple laying steps	5 cm
Pipes that can be installed	$\text{Ø}16/2 - \text{Ø}17/2 - \text{Ø}20/2 - \text{Ø}25/2,3 \text{ mm}$

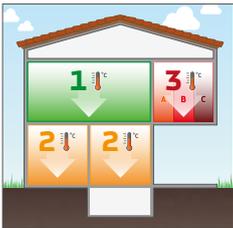


**⊕ PLUS**

- Flat system suited for installations in the tertiary and industrial sectors
- Quick laying of the pipe thanks to the graphic references for choosing the step
- Flexible installation, with clips anchored directly to the panel or to the support mesh

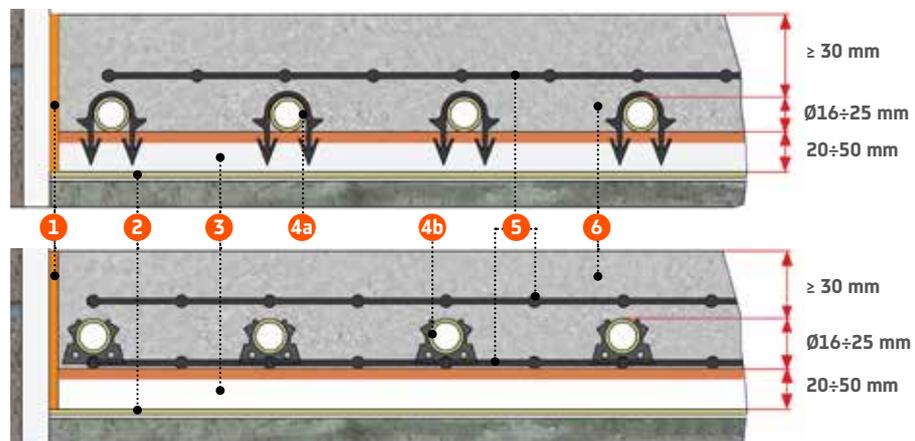
**FLAT-ORG**


- **Pannello piano in polistirene espanso.**
  - Dimensioni utili: 140 x 80 cm (20-40 mm); 100 x 50 cm (50 mm)
  - Film plastico: 170 µm
  - Classe materiale (UNI EN 13163): EPS 200
  - Conducibilità termica (EN 12667):  $d$  0,033 W/m K
  - Resistenza a compressione al 10% di deformazione (UNI EN 826): 200 kPa
- **Flat panel in expanded polystyrene.**
  - Useful dimensions: 140 x 80 cm (20-40 mm); 100 x 50 cm (50 mm)
  - Plastic film: 170 µm
  - Material class (UNI EN 13163): EPS 200
  - Thermal conductivity (EN 12667):  $d$  0,033 W/m K
  - Compressive strength at 10% deformation (UNI EN 826): 200 kPa
- **Panneau plat en polystyrène expansé.**
  - Dimensions utiles: 140 x 80 cm (20-40 mm); 100 x 50 cm (50 mm)
  - Film plastique: 170 µm
  - Classe de matériau (UNI EN 13163): EPS 200
  - Conductivité thermique (EN 12667):  $d$  0,033 W/m K
  - Résistance à la compression à 10% de déformation (UNI EN 826): 200 kPa
- **Flachplatte aus expandiertem Polystyrol.**
  - Nützliche Abmessungen: 140 x 80 cm (20-40 mm); 100 x 50 cm (50 mm)
  - Kunststoffolie: 170 µm
  - Materialklasse (UNI EN 13163): EPS 200
  - Wärmeleitfähigkeit (EN 12667):  $d$  0,033 W/m K
  - Druckfestigkeit bei 10% der Verformung (UNI EN 826): 200 kPa
- **Panel plano de poliestireno expandido.**
  - Dimensiones útiles: 140 x 80 cm (20-40 mm); 100 x 50 cm (50 mm)
  - Película de plástico: 170 µm
  - Clase de material (UNI EN 13163): EPS 200
  - Conductividad térmica (EN 12667):  $d$  0,033 W/m K
  - Resistencia a la compresión al 10% de deformación (UNI EN 826): 200 kPa

**FOCUS: UNI EN 1264-4**
**>> p. 302**


Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Price	Class	Packaging
FLAT20-ORG	20 mm	20 mm	0,60 m <sup>2</sup> K/W	26 pcs	13,097 €/m <sup>2</sup>	HU	29,12 m <sup>2</sup>
FLAT30-ORG	30 mm	30 mm	0,90 m <sup>2</sup> K/W	17 pcs	15,44 €/m <sup>2</sup>	HU	10 m <sup>2</sup>
FLAT40-ORG	40 mm	40 mm	1,21 m <sup>2</sup> K/W	13 pcs	17,794 €/m <sup>2</sup>	HU	14,56 m <sup>2</sup>
FLAT50-ORG	50 mm	50 mm	1,51 m <sup>2</sup> K/W	13 pcs	20,405 €/m <sup>2</sup>	HU	6,50 m <sup>2</sup>

1. Perimeter edging
2. Humidity barrier
3. Insulation panel
- 4a. Piping + clip
- 4b. Piping + clip on the net
5. Electro-welded mesh
6. Screed with additive



• Pipe &gt;&gt; p. 113-115



• Holding bend &gt;&gt; p. 328



• Insulating sheath &gt;&gt; p. 328



• Perimeter edging &gt;&gt; p. 328



• Expansion joint &gt;&gt; p. 329



• Humidity barrier &gt;&gt; p. 329



• Clips &gt;&gt; p. 330



• Clips &gt;&gt; p. 331



• Rails &gt;&gt; p. 331



• Electro-welded net &gt;&gt; p. 330



• Reinforcement fibres &gt;&gt; p. 332



• Additive for screed &gt;&gt; p. 332

Minimum installation space

  $\geq 66 \text{ mm}$

Multiple laying steps

5 cm

Pipes that can be installed

$\text{Ø}16/2 - \text{Ø}17/2 - \text{Ø}20/2 \text{ mm}$

**⊕ PLUS**

- Made exclusively of natural and non-toxic materials
- Unlimited service life
- Used in “green” construction, as well as in the industrial sector, thanks to its high compression resistance

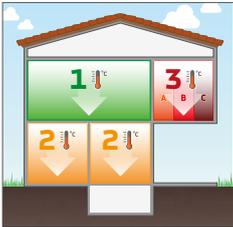
**BIO**



- **Pannello piano in sughero naturale compresso senza collante.**
  - Dimensioni utili: 103 x 59 cm
  - Conducibilità termica (EN 12667): d 0,043 W/m K
  - Resistenza a compressione al 10% di deformazione (UNI EN 826): 450 kPa
- *Flat panel in natural compressed cork without glue.*
  - Useful dimensions: 103 x 59 cm
  - Thermal conductivity (EN 12667): d 0,043 W/m K
  - Compressive strength at 10% deformation (UNI EN 826): 450 kPa
- **Panneau plat en liège naturel compressé sans colle.**
  - Dimensions utiles: 103 x 59 cm
  - Conductivité thermique (EN 12667): d 0,043 W/m K
  - Résistance à la compression à 10% de déformation (UNI EN 826): 450 kPa
- *Flachplatte aus komprimiertem Naturkork ohne Klebstoff.*
  - Nützliche Abmessungen: 103 x 59 cm
  - Wärmeleitfähigkeit (EN 12667): d 0,043 W/m K
  - Druckfestigkeit bei 10% der Verformung (UNI EN 826): 450 kPa
- **Panel plano de corcho natural comprimido sin cola.**
  - Dimensiones útiles: 103 x 59 cm
  - Conductividad térmica (EN 12667): d 0,043 W/m K
  - Resistencia a la compresión al 10% de deformación (UNI EN 826): 450 kPa

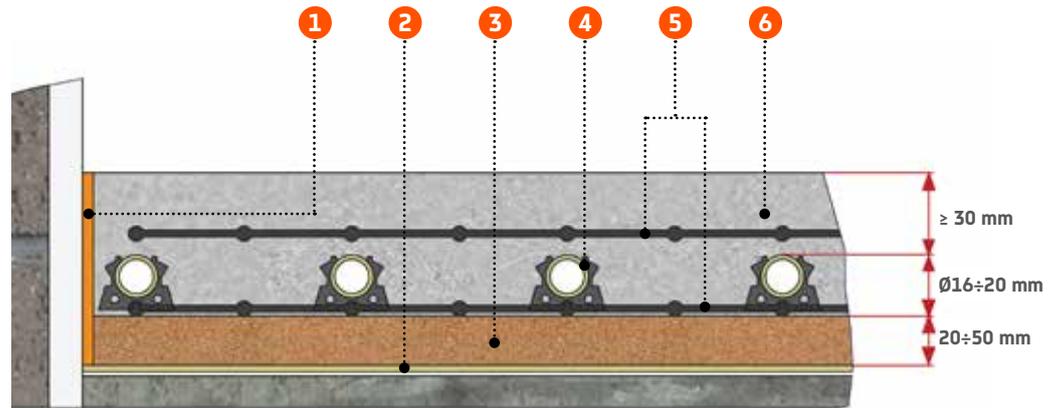
**FOCUS: UNI EN 1264-4**

>> p. 302



Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Price	Class	Packaging
BIO20	20 mm	20 mm	0,47 m² K/W	80 pcs	40,253 €/m²	HU	48,62 m²
BIO30	30 mm	30 mm	0,70 m² K/W	54 pcs	55,683 €/m²	HU	32,82 m²
BIO40	40 mm	40 mm	0,93 m² K/W	58 pcs	72,46 €/m²	HU	35,25 m²
BIO50	50 mm	50 mm	1,16 m² K/W	46 pcs	90,576 €/m²	HU	27,95 m²

1. Perimeter edging
2. Anti-vibration mat
3. Insulation panel
4. Piping + clip on the net
5. Electro-welded mesh
6. Screed with additive



• Pipe >> p. 107-109



• Holding bend >> p. 328



• Insulating sheath >> p. 328



• Perimeter edging >> p. 328



• Expansion joint >> p. 329



• Anti-vibration mat >> p. 329



• Electro-welded net >> p. 330



• Clips >> p. 331



• Rails >> p. 332



• Reinforcement fibres >> p. 332



• Additive for screed >> p. 332

Minimum installation space

  $\geq 126 \text{ mm}$

Free multiple laying steps

Pipes that can be installed

$\text{\O}16/2 - \text{\O}17/2 - \text{\O}20/2 - \text{\O}25/2,3 \text{ mm}$

**+** PLUS

- System specifically designed for industrial applications, thanks to compression resistance of up to 500 kPa
- Vapour barrier incorporated in the panel and overlapping for ideal coupling of the panels
- Flexible installation with clips or with anchoring rail

**INDUSTRY**



- **Pannello piano in polistirene espanso estruso con battentaura.**
  - Dimensioni utili: 125 x 60 cm
  - Classe materiale: XPS500
  - Conducibilità termica (EN 12667):  $d\ 0,033\ W/m\ K$
  - Resistenza a compressione al 10% di deformazione (UNI EN 826): 500 kPa
- **Flat panel in extruded expanded polystyrene with rabbet.**
  - Useful dimensions: 125 x 60 cm
  - Material class: XPS500
  - Thermal conductivity (EN 12667):  $d\ 0,033\ W/m\ K$
  - Compressive strength at 10% deformation (UNI EN 826): 500 kPa
- **Panneau plat en polystyrène expansé extrudé.**
  - Dimensions utiles: 125 x 60 cm
  - Classe de matériau: XPS500
  - Conductivité thermique (EN 12667):  $d\ 0,033\ W/m\ K$
  - Résistance à la compression à 10% de déformation (UNI EN 826): 500 kPa
- **Flachplatte aus extrudiertem expandiertem Polystyrol.**
  - Nützliche Abmessungen: 125 x 60 cm
  - Materialklasse: XPS500
  - Wärmeleitfähigkeit (EN 12667):  $d\ 0,033\ W/m\ K$
  - Druckfestigkeit bei 10% der Verformung (UNI EN 826): 500 kPa
- **Panel plano de poliestireno expandido extruido.**
  - Dimensiones útiles: 125 x 60 cm
  - Clase de material: XPS500
  - Conductividad térmica (EN 12667):  $d\ 0,033\ W/m\ K$
  - Resistencia a la compresión al 10% de deformación (UNI EN 826): 500 kPa

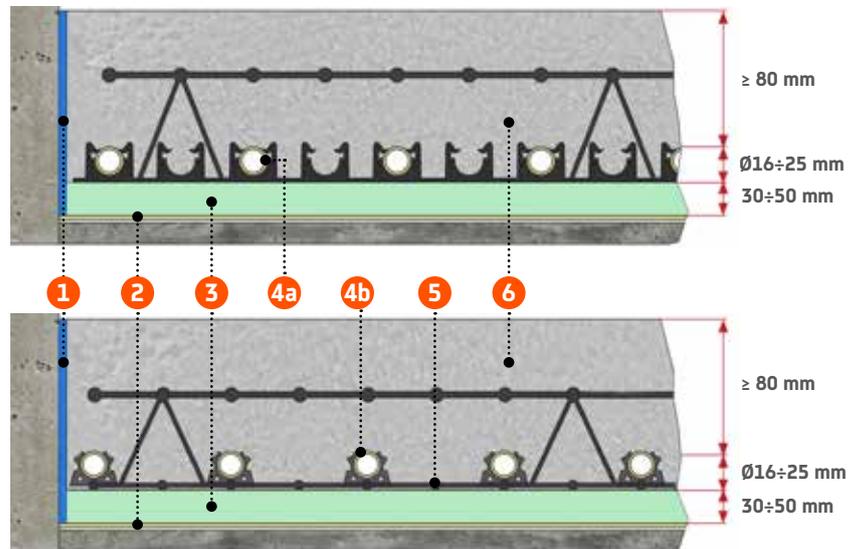
**FOCUS: UNI EN 1264-4**

>> p. 302



Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Price	Class	Packaging
INDUSTRY30	30 mm	30 mm	0,91 m <sup>2</sup> K/W	14 pcs	17,901 €/m <sup>2</sup>	HU	10,50 m <sup>2</sup>
INDUSTRY40	40 mm	40 mm	1,21 m <sup>2</sup> K/W	10 pcs	23,305 €/m <sup>2</sup>	HU	7,50 m <sup>2</sup>
INDUSTRY50	50 mm	50 mm	1,52 m <sup>2</sup> K/W	8 pcs	29,136 €/m <sup>2</sup>	HU	6 m <sup>2</sup>

1. Perimeter edging
2. Humidity barrier
3. Insulation panel
- 4a. Piping + rail
- 4b. Piping + clip on the net
5. Electro-welded mesh
6. Screed with additive for industrial systems (NOT SUPPLIED BY IVAR)



• Pipe >> p. 107-109



• Holding bend >> p. 328



• Insulating sheath >> p. 328



• Perimeter edging >> p. 328



• Humidity barrier >> p. 329



• Electro-welded net >> p. 330



• Clips >> p. 331



• Clips >> p. 331



• Rails >> p. 332

# CEILING-WALL SYSTEMS

Minimum installation space

  $\geq 140$  mm

Panels available with smooth (L) or drilled (F) surface

Supply pipes that can be installed

$\varnothing 20/2$  mm

## PLUS

- Modular system with standard dimensions 60x60 cm, completely removable and reusable
- Steel panels with smooth or micro-perforated surface
- System with extremely high response speed

**EASY-TEC A**


- **Pannello metallico attivo per finitura a vista con serpentina in alluminio e strato isolante in polistirene espanso.**
  - Dimensioni utili: 60 x 60 cm
  - Classe materiale (UNI EN 13163): EPS 100
  - Conducibilità termica (EN 12667):  $d$  0,035 W/m K
  - Diametro tubazione di collegamento: 10/1,3 mm
  - Diametro attacco serpentina interna: 8 mm
  - Passo serpentina interna: 5 cm
- *Exposed metal active panel with aluminium coil and insulating layer in expanded polystyrene.*
  - Useful dimensions: 60 x 60 cm
  - Material class (UNI EN 13163): EPS 100
  - Thermal conductivity (EN 12667):  $d$  0,035 W/m K
  - Connection pipe diameter: 10/1,3 mm
  - Internal coil connection diameter: 8 mm
  - Internal coil step: 5 cm
- **Panneau métallique actif pour finition à vue avec serpentín en aluminium et couche isolante en polystyrène expansé.**
  - Dimensions utiles: 60 x 60 cm
  - Classe de matériau (UNI EN 13163): EPS 100
  - Conductivité thermique (EN 12667):  $d$  0,035 W/m K
  - Diamètre du tuyau de raccordement: 10 / 1,3 mm
  - Diamètre de connexion de la bobine interne: 8 mm
  - Empattement de la bobine interne: 5 cm
- *Aktive Metallplatte mit Aluminiumspirale und Isolierschicht aus expandiertem Polystyrol.*
  - Nützliche Abmessungen: 60 x 60 cm
  - Materialklasse (UNI EN 13163): EPS 100
  - Wärmeleitfähigkeit (EN 12667):  $d$  0,035 W/m K
  - Anschlussrohrdurchmesser: 10 / 1,3
  - Anschlussdurchmesser der inneren Serpentin: 8 mm
  - Innerer Serpentinradstand: 5 cm
- **Panel metálico activo con bobina de aluminio y capa aislante de poliestireno expandido.**
  - Dimensiones útiles: 60 x 60 cm
  - Clase de material (UNI EN 13163): EPS 100
  - Conductividad térmica (EN 12667):  $d$  0,035 W/m K
  - Diámetro de la tubería de conexión: 10 / 1.3
  - Diámetro interno de la conexión de la bobina: 8 mm
  - Distancia entre ejes serpentina interior: 5 cm

Code	Panel type	Insulation thickness	Useful dimensions	Thermal resistance	Finishing	Price	Class	Packaging
EASYTEC-AL	Active	27 mm	60 x 60 cm	0,77 m <sup>2</sup> K/W	Smooth	179,696 €/m <sup>2</sup>	HU	0,36 m <sup>2</sup>
EASYTEC-AF	Active	27 mm	60 x 60 cm	0,77 m <sup>2</sup> K/W	Drilled	186,362 €/m <sup>2</sup>	HU	0,36 m <sup>2</sup>

**EASY-TEC P**


- **Pannello metallico passivo per finitura a vista con strato isolante in polistirene espanso.**
  - Dimensioni utili: 60 x 60 cm
  - Classe materiale (UNI EN 13163): EPS 100
  - Conducibilità termica (EN 12667):  $d$  0,035 W/m K
- *Exposed metal passive panel with insulating layer in expanded polystyrene.*
  - Useful dimensions: 60 x 60 cm
  - Material class (UNI EN 13163): EPS 100
  - Thermal conductivity (EN 12667):  $d$  0,035 W/m K
- **Panneau métallique passif pour finition à vue avec couche isolante en polystyrène expansé.**
  - Dimensions utiles: 60 x 60 cm
  - Classe de matériau (UNI EN 13163): EPS 100
  - Conductivité thermique (EN 12667):  $d$  0,035 W/m K
- *Passive Metallplatte mit Isolierschicht aus expandiertem Polystyrol.*
  - Nützliche Abmessungen: 60 x 60 cm
  - Materialklasse (UNI EN 13163): EPS 100
  - Wärmeleitfähigkeit (EN 12667):  $d$  0,035 W/m K
- **Panel metálico pasivo con capa aislante de poliestireno expandido.**
  - Dimensiones útiles: 60 x 60 cm
  - Clase de material (UNI EN 13163): EPS 100
  - Conductividad térmica (EN 12667):  $d$  0,035 W/m K

Code	Panel type	Insulation thickness	Useful dimensions	Thermal resistance	Finishing	Price	Class	Packaging
EASYTEC-PL	Passive	27 mm	60 x 60 cm	0,77 m <sup>2</sup> K/W	Smooth	84,915 €/m <sup>2</sup>	HU	0,36 m <sup>2</sup>
EASYTEC-PF	Passive	27 mm	60 x 60 cm	0,77 m <sup>2</sup> K/W	Drilled	97,028 €/m <sup>2</sup>	HU	0,36 m <sup>2</sup>



• Pipe >> p. 334



• Perimeter edging >> p. 334



• Insulating sheath >> p. 337



• Fittings >> p. 337



• Fittings >> p. 348-349-350



• Insulation for fittings >> p. 337

Minimum installation space

  $\geq 96 \text{ mm}$

Panels with plasterboard surface

Supply pipes that can be installed

$\text{Ø}20/2 \text{ mm}$

**+** PLUS

- Reduced installation dimensions
- It can be used in false ceilings, wall covering or mixed installation
- Multiple dimensions available for optimised laying

**ECO-CLIMA A**


- **Pannello attivo in cartongesso con tubo PE-RT Ø10/1,3 e strato isolante in polistirene espanso.**
  - Classe materiale (UNI EN 13163): EPS 100
  - Conduttività termica (EN 12667): d 0,035 W/m K (isolante); d 0,25 W/m K (lastra)
  - Diametro tubazione di collegamento: 10/1,3
  - Passo tubazione interna (spirale): 5 cm
  - Reazione al fuoco (UNI EN 13501-1): Euroclasse A2-s1,d0(B)
- *Plasterboard active panel with PE-RT pipe Ø10/1,3 and insulating layer in expanded polystyrene.*
  - Material class (UNI EN 13163): EPS 100
  - Thermal conductivity (EN 12667): d 0,035 W/m K (insulation); d 0,25 W/m K (slab)
  - Connection pipe diameter: 10/1,3
  - Internal pipe step (spiral): 5 cm
  - Fire rating (UNI EN 13501-1): Euroclass A2-s1,d0(B)
- **Panneau actif en placoplâtre avec tuyau PE-RT Ø10/1,3 et couche isolante en polystyrène expansé.**
  - Classe de matériau (UNI EN 13163): EPS 100
  - Conductivité thermique (EN 12667): d 0,035 W/m K (isolante); d 0,25 W/m K (feuille)
  - Diamètre du tuyau de raccordement: 10 / 1,3 mm
  - Empattement du tuyau interne (spirale): 5 cm
  - Réaction au feu (UNI EN 13501-1): Euroclasse A2-s1, d0 (B)
- *Aktive Platte aus Gipskarton mit PE-RT Rohr Ø10/1,3 und Isolierschicht aus expandiertem Polystyrol.*
  - Materialklasse (UNI EN 13163): EPS 100
  - Wärmeleitfähigkeit (EN 12667): d 0,035 W/m K (Isolierschicht); d 0,25 W/m K (Platte)
  - Anschlussrohrdurchmesser: 10 / 1,3
  - Innerer Serpentinradstand (Spirale): 5 cm
  - Brandverhalten (UNI EN 13501-1): Euroklasse A2-s1, d0 (B)
- **Panel activo de cartón-yeso con tubo PE-RT Ø10/1,3 y capa aislante de poliestireno expandido.**
  - Clase de material (UNI EN 13163): EPS 100
  - Conductividad térmica (EN 12667): d 0,035 W/m K (aislante); d 0,25 W/m K (placa)
  - Diámetro de la tubería de conexión: 10/1,3
  - Distancia entre ejes serpentina interior (espiral): 5 cm
  - Reacción al fuego (UNI EN 13501-1): Euroclase A2-s1, d0 (B)

Code	Panel type	Insulation thickness	Total thickness	Useful dimensions	Price	Class	Packaging
ECO-A1006	Active	27 mm	42 mm	100 x 60 cm	84,584 €/m <sup>2</sup>	HU	0,60 m <sup>2</sup>
ECO-A1012	Active	27 mm	42 mm	100 x 120 cm	84,584 €/m <sup>2</sup>	HU	1,20 m <sup>2</sup>
ECO-A2006	Active	27 mm	42 mm	200 x 60 cm	84,584 €/m <sup>2</sup>	HU	1,20 m <sup>2</sup>
ECO-A2012	Active	27 mm	42 mm	200 x 120 cm	84,584 €/m <sup>2</sup>	HU	2,40 m <sup>2</sup>

**ECO-CLIMA P**


- **Pannello passivo in cartongesso con strato isolante in polistirene espanso.**
  - Classe materiale (UNI EN 13163): EPS 100
  - Conduttività termica (EN 12667): d 0,035 W/m K (isolante); d 0,25 W/m K (lastra)
  - Reazione al fuoco (UNI EN 13501-1): Euroclasse A2-s1,d0(B)
- *Plasterboard passive panel with insulating layer in expanded polystyrene.*
  - Material class (UNI EN 13163): EPS 100
  - Thermal conductivity (EN 12667): d 0,035 W/m K (insulation); d 0,25 W/m K (slab)
  - Fire rating (UNI EN 13501-1): Euroclass A2-s1,d0(B)
- **Panneau passif en placoplâtre avec couche isolante en polystyrène expansé.**
  - Classe de matériau (UNI EN 13163): EPS 100
  - Conductivité thermique (EN 12667): d 0,035 W/m K (isolante); d 0,25 W/m K (feuille)
  - Réaction au feu (UNI EN 13501-1): Euroclasse A2-s1, d0 (B)
- *Passive Platte aus Gipskarton mit Isolierschicht aus expandiertem Polystyrol.*
  - Materialklasse (UNI EN 13163): EPS 100
  - Wärmeleitfähigkeit (EN 12667): d 0,035 W/m K (Isolierschicht); d 0,25 W/m K (Platte)
  - Brandverhalten (UNI EN 13501-1): Euroklasse A2-s1, d0 (B)
- **Panel pasivo de cartón-yeso con capa aislante de poliestireno expandido.**
  - Clase de material (UNI EN 13163): EPS 100
  - Conductividad térmica (EN 12667): d 0,035 W/m K (aislante); d 0,25 W/m K (placa)
  - Reacción al fuego (UNI EN 13501-1): Euroclase A2-s1, d0 (B)

Code	Panel type	Insulation thickness	Total thickness	Useful dimensions	Price	Class	Packaging
ECO-P2012	Passive	27 mm	42 mm	200 x 120 cm	35,257 €/m <sup>2</sup>	HU	2,40 m <sup>2</sup>



• Pipe >> p. 334



• Perimeter edging >> p. 334



• Insulating sheath >> p. 337



• Fittings >> p. 334-335-336



• Insulation for fittings >> p. 337

Minimum installation space

  $\geq 96 \text{ mm}$

Panels with plasterboard surface, water and fire-resistant

Supply pipes that can be installed

$\text{Ø}20/2 \text{ mm}$

### PLUS

- It can be used in combination with the ECO-CLIMA system thanks to the same-size panels and the same connection fittings
- High fire resistance
- It can be installed under conditions of high humidity (for example, in bathrooms)

**■ HYDROFIRE-CLIMA A**


- **Pannello attivo in cartongesso additivato con fibre di vetro e legno per tenuta all'umidità e protezione al fuoco, con tubo PE-RT Ø10/1,3 e strato isolante in polistirene espanso.**
  - Classe materiale (UNI EN 13163): EPS 100
  - Conducibilità termica (EN 12667): d 0,035 W/m K (isolante); d 0,25 W/m K (lastra)
  - Diametro tubazione di collegamento: 10/1,3
  - Passo tubazione interna (spirale): 5 cm
  - Reazione al fuoco (UNI EN 13501-1): Euroclasse A1 (B)
- *Humidity and fire-resistant plasterboard active panel with wood and glass fibres, PE-RT pipe Ø10/1,3 and insulating layer in expanded polystyrene.*
  - Material class (UNI EN 13163): EPS 100
  - Thermal conductivity (EN 12667): d 0,035 W/m K (insulation); d 0,25 W/m K (slab)
  - Connection pipe diameter: 10/1,3
  - Internal pipe step (spiral): 5 cm
  - Fire rating (UNI EN 13501-1): Euroclass A1 (B)
- **Panneau actif en placoplâtre additivé avec de la fibre de verre et du bois pour la protection contre l'humidité et le feu, avec tuyau PE-RT Ø10/1,3 et couche isolante en polystyrène expansé.**
  - Classe de matériau (UNI EN 13163): EPS 100
  - Conductivité thermique (EN 12667): d 0,035 W/m K (isolante); d 0,25 W/m K (feuille)
  - Diamètre du tuyau de raccordement: 10 / 1,3 mm
  - Empattement du tuyau interne (spirale): 5 cm
  - Réaction au feu (UNI EN 13501-1): Euroclasse A1 (B)
- *Aktive Platte aus Gipskarton vermischt mit Glas- und Holzfasern für die Feuchtigkeitsbeständigkeit und Feuerschutz, mit PE-RT Rohr Ø10/1,3 und Isolierschicht aus expandiertem Polystyrol.*
  - Materialklasse (UNI EN 13163): EPS 100
  - Wärmeleitfähigkeit (EN 12667): d 0,035 W/m K (Isolierschicht); d 0,25 W/m K (Platte)
  - Anschlussrohrdurchmesser: 10 / 1,3
  - Innerer Serpentinradstand (Spirale): 5 cm
  - Brandverhalten (UNI EN 13501-1): Euroklasse A1 (B)
- **Panel activo de cartón-yeso aditivado con fibra de vidrio y madera para la protección contra la humedad y el fuego, con tubo PE-RT Ø10/1,3 y capa aislante de poliestireno expandido.**
  - Clase de material (UNI EN 13163): EPS 100
  - Conductividad térmica (EN 12667): d 0,035 W/m K (aislante); d 0,25 W/m K (placa)
  - Diámetro de la tubería de conexión: 10/1,3
  - Distancia entre ejes serpentina interior (espiral): 5 cm
  - Reacción al fuego (UNI EN 13501-1): Euroclase A1 (B)

Code	Panel type	Insulation thickness	Total thickness	Useful dimensions	Price	Class	Packaging
HF-A1006	Active	27 mm	42 mm	100 x 60 cm	120,054 €/m <sup>2</sup>	HU	0,60 m <sup>2</sup>
HF-A1012	Active	27 mm	42 mm	100 x 120 cm	120,054 €/m <sup>2</sup>	HU	1,20 m <sup>2</sup>
HF-A2006	Active	27 mm	42 mm	200 x 60 cm	120,054 €/m <sup>2</sup>	HU	1,20 m <sup>2</sup>
HF-A2012	Active	27 mm	42 mm	200 x 120 cm	120,054 €/m <sup>2</sup>	HU	2,40 m <sup>2</sup>

**■ HYDROFIRE-CLIMA P**


- **Pannello passivo in cartongesso additivato con fibre di vetro e legno per tenuta all'umidità e protezione al fuoco, con strato isolante in polistirene espanso.**
  - Classe materiale (UNI EN 13163): EPS 100
  - Conducibilità termica (EN 12667): d 0,035 W/m K (isolante); d 0,25 W/m K (lastra)
  - Reazione al fuoco (UNI EN 13501-1): Euroclasse A1 (B)
- *Humidity and fire-resistant plasterboard passive panel with wood and glass fibres and insulating layer in expanded polystyrene.*
  - Material class (UNI EN 13163): EPS 100
  - Thermal conductivity (EN 12667): d 0,035 W/m K (insulation); d 0,25 W/m K (slab)
  - Fire rating (UNI EN 13501-1): Euroclass A1 (B)
- **Panneau passif en placoplâtre additivé avec de la fibre de verre et du bois pour la protection contre l'humidité et le feu, avec couche isolante en polystyrène expansé.**
  - Classe de matériau (UNI EN 13163): EPS 100
  - Conductivité thermique (EN 12667): d 0,035 W/m K (isolante); d 0,25 W/m K (feuille)
  - Réaction au feu (UNI EN 13501-1): Euroclasse A1 (B)
- *Passive Platte aus Gipskarton vermischt mit Glas- und Holzfasern für die Feuchtigkeitsbeständigkeit und Feuerschutz, mit Isolierschicht aus expandiertem Polystyrol.*
  - Materialklasse (UNI EN 13163): EPS 100
  - Wärmeleitfähigkeit (EN 12667): d 0,035 W/m K (Isolierschicht); d 0,25 W/m K (Platte)
  - Brandverhalten (UNI EN 13501-1): Euroklasse A1 (B)
- **Panel pasivo de cartón-yeso aditivado con fibra de vidrio y madera para la protección contra la humedad y el fuego, con capa aislante de poliestireno expandido.**
  - Clase de material (UNI EN 13163): EPS 100
  - Conductividad térmica (EN 12667): d 0,035 W/m K (aislante); d 0,25 W/m K (placa)
  - Reacción al fuego (UNI EN 13501-1): Euroclase A1 (B)

Code	Panel type	Insulation thickness	Total thickness	Useful dimensions	Price	Class	Packaging
HF-P2012	Passive	27 mm	42 mm	200 x 120 cm	66,361 €/m <sup>2</sup>	HU	2,40 m <sup>2</sup>



• Pipe >> p. 334



• Perimeter edging >> p. 334



• Insulating sheath >> p. 337



• Fittings >> p. 334-335-336



• Insulation for fittings >> p. 337

Minimum installation space

 30 mm

Multiple laying steps

2,5 cm

Supply pipes that can be installed

Ø10/1,3 mm

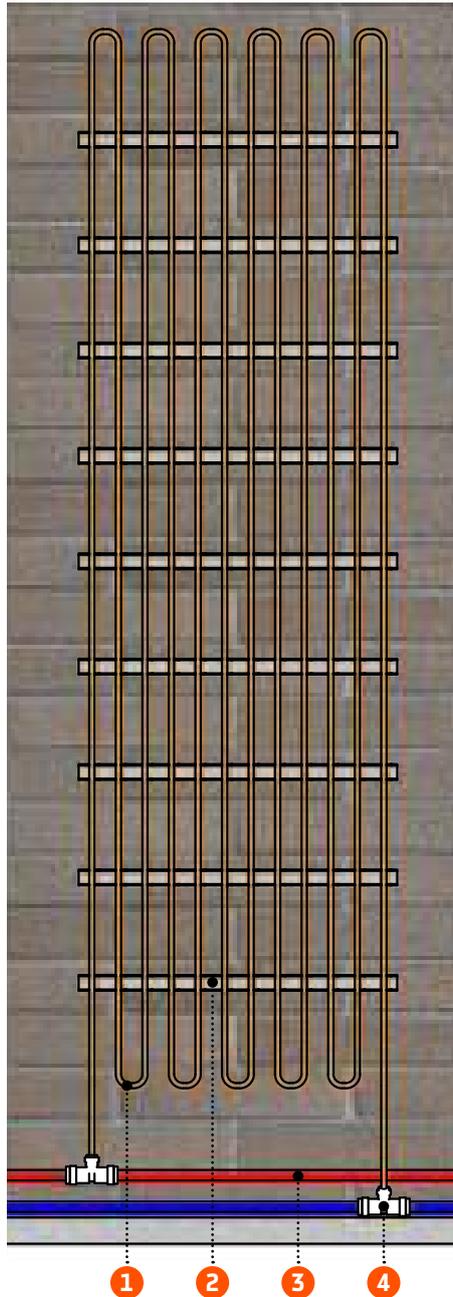
**+** PLUS

- Extremely reduced installation thickness
- Pipe anchored to the rail for totally flexible use
- Easy to install

**BIN-10**


- **Binario per ancoraggio tubi Ø10 mm con biadesivo.**
- *Rail for Ø10 mm pipe fixing with double-sided tape.*
- **Binaire pour ancrage tuyaux Ø10 mm avec ruban adhésif double face.**
- *Schiene für Rohrverankerung Ø10 mm mit doppelseitigem Klebeband.*
- **Binario de anclaje de los tubos de Ø10 mm con cinta adhesiva de doble cara.**

Code	Height	Length	Width	Pcs per package	Price	Class	Packaging
BIN-10B	15,5 mm	2 m	30 mm	16 pcs	3,22 €/m	HP	32 m



1. Distribution piping
2. Rail for pipes fixing
3. Supply piping
4. Fittings



• Supply pipe >> p. 334



• Distribution pipe >> p. 107



• Fittings >> p. 334-335-336



• Insulation for fittings >> p. 337

# ACCESSORIES FOR FLOOR SYSTEMS

## REGCU



- Reggicurva di sostegno per protezione tubazioni.
- Holding bend for pipe protection.
- Courbe de support pour la protection des tuyaux.
- Stützkurve für den Rohrschutz.
- Curva de soporte para protección de tubería.

Code	Pipe	Price	Class	Packaging
REGCU-17	Ø16 - Ø17 mm	1,92 €	HP	50
REGCU-20	Ø20 mm	2,69 €	HP	50
REGCU-25	Ø25 mm	3,18 €	HP	50

## ISOL



- Guaina isolante per tubazioni.
- Insulating sheath for pipes.
- Gaine isolante pour tuyaux.
- Isoliermantel für Rohre.
- Vaina aislante para tubos.

Code	Insulation thickness	Pipe	Length	Price	Class	Packaging
ISOL-10	6 mm	Ø10 mm	2 m	0,99 €/m	HP	2 m
ISOL-17	6 mm	Ø16 - Ø17 mm	2 m	1,27 €/m	HP	2 m
ISOL-20	6 mm	Ø20 mm	2 m	1,36 €/m	HP	2 m
ISOL-25	6 mm	Ø25 mm	2 m	1,59 €/m	HP	2 m

## FAS



- Fascia perimetrale con adesivo parziale, bandella e logo IVAR.
- Perimeter edging with partial adhesive, strip and IVAR logo.
- Bande périmétrique avec adhésif partiel, bande et logo IVAR.
- Umfangsband mit Teilkleber, Streifen und IVAR-Logo.
- Banda perimetral con adhesivo parcial, tira y logotipo IVAR.

Code	Size	Color	Price	Class	Packaging
FAS-150	150 x 8 mm		1,78 €/m	HP	50 m

## FAS-INDUSTRY



- Fascia perimetrale con adesivo parziale.
- Perimeter edging with partial adhesive.
- Bande périmétrique avec adhésif partiel.
- Umfangsband mit Teilkleber.
- Banda perimetral con adhesivo parcial.

Code	Size	Color	Price	Class	Packaging
FAS-300	300 x 10 mm		3,38 €/m	HP	50 m

## FAS-SLIM



- Fascia perimetrale con adesivo parziale, bandella adesiva e logo IVAR.
- Perimeter edging with partial adhesive, adhesive strip and IVAR logo.
- Bande périmétrique avec adhésif partiel, bande adhésive et logo IVAR.
- Umfangsband mit Teilkleber, Klebestreifen und IVAR-Logo.
- Banda perimetral con adhesivo parcial, tira adhesiva y logotipo IVAR.

Code	Size	Color	Price	Class	Packaging
FAS-080L	80 x 6 mm		3,04 €/m	HP	25 m

**GIU**


- **Giunto di dilatazione.**
- *Expansion joint.*
- **Joint de dilatation.**
- *Dehnfuge.*
- **Junta de dilatación.**

Code	Size	Price	Class	Packaging
GIU-90	90 x 2000 mm	8,78 €/m	HP	2 m

**SOUND**


- **Isolante acustico per sistemi a pavimento,  $\Delta Lw = 32$  dB.**
- *Sound absorbing panel for floor systems,  $\Delta Lw = 32$  dB.*
- **Panneau absorbant acoustique pour les systèmes à plancher,  $\Delta Lw = 32$  dB.**
- *Geräuschkämmende Platte für Bodensysteme,  $\Delta Lw = 32$  dB.*
- **Panel fonoabsorbente para sistemas de suelo,  $\Delta Lw = 32$  dB.**

Code	Size	Insulation thickness	Price	Class	Packaging
SOUND-09	1,3 x 50 m	9 mm	11,25 €/m <sup>2</sup>	HP	65 m <sup>2</sup>

**SOUND-SLIM**


- **Isolante acustico per sistemi a pavimento,  $\Delta Lw = 15$  dB.**
- *Sound absorbing panel for floor systems,  $\Delta Lw = 15$  dB.*
- **Panneau absorbant acoustique pour les systèmes à plancher,  $\Delta Lw = 15$  dB.**
- *Geräuschkämmende Platte für Bodensysteme,  $\Delta Lw = 15$  dB.*
- **Panel fonoabsorbente para sistemas de suelo,  $\Delta Lw = 15$  dB.**

Code	Size	Insulation thickness	Price	Class	Packaging
SOUND-SLIM	1,2 x 11 m	3 mm	22,05 €/m <sup>2</sup>	HP	13,20 m <sup>2</sup>

**BU**


- **Barriera umidità, spessore 200  $\mu$ m.**
- *Humidity barrier, thickness 200  $\mu$ m.*
- **Barrière humidité, épaisseur 200  $\mu$ m.**
- *Feuchtigkeitsbarriere, Dicke 200  $\mu$ m.*
- **Barrera contra la humedad, espesor 200  $\mu$ m.**

Code	Size	Price	Class	Packaging
BU-100	2 x 50 m	2,03 €/m <sup>2</sup>	HP	100 m <sup>2</sup>

**BU-BIO**


- **Tappetino antivibrante, spessore 3 mm.**
- *Anti-vibration mat, thickness 3 mm.*
- **Tapis anti-vibration, épaisseur 3 mm.**
- *Antivibrationsmatte, 3 mm dick.*
- **Alfombra antivibraciones, espesor 3 mm.**

Code	Size	Price	Class	Packaging
BU-100BIO	1 x 10 m	23,94 €/m <sup>2</sup>	HP	10 m <sup>2</sup>

### RP 5700



- Raccordo diritto per tubo in polietilene.
- Straight fitting for polyethylene pipe.
- Raccord droit pour tube en polyéthylène.
- Kupplung für Polyäthylen-Rohr.
- Racor recto para tubo de polietileno.

Code	Size	Price	Class	Packaging
510201	17/2 x 17/2	5,71 €	IA	40 / 320

### NET-FLAT



- Rete elettrosaldada piana.
- Electro welded flat net.
- Grille électrosoudée plane.
- Flaches Schweißgitter.
- Red electrosoldada plana.

Code	Size	Price	Class	Packaging
RE-100F3	100 x 100 mm - Ø3 mm	7,75 €/m <sup>2</sup>	HP	30 m <sup>2</sup>
RE-50F2	50 x 50 mm - Ø2 mm	4,40 €/m <sup>2</sup>	HP	40 m <sup>2</sup>

### CLIP03



- Cavallotto fissarete.
- Stand for net.
- Crampillon de fixation grillage.
- Gitterklemme.
- Perno en u para fijación de red.

Code	OC distance	Price	Class	Packaging
CLIP03	75 mm	0,22 €	HP	100

### CLIP-AUT



- Graffetta per fissaggio tubo automatico.
- Clip for automatic pipe fixing.
- Agrafe pour fixation tuyau automatique.
- Rohrklammer Automatik.
- Grapa de fijación tubo automática.

Code	Pipe	Price	Class	Packaging
CLIP20AUT	≤ Ø20 mm	0,17 €	HP	100

### HD09



- Attrezzo per fissaggio tubo automatico con graffette CLIP20AUT.
- Clip gun for automatic pipe fixing with CLIP20AUT.
- Outil pour le fixation du tuyau automatique avec les agrafes CLIP20AUT.
- Automatisches Rohrbefestigungswerkzeug für Klammern CLIP20AUT.
- Herramienta para fijación tubo automática con grapas CLIP20AUT.

Code	Size	Price	Class	Packaging
HD09	-	377,85 €	HP	1

**CLIP-MAN**


- Graffetta per fissaggio tubo manuale.
- Clip for manual pipe fixing.
- Agrafe pour fixation tuyau manuel.
- Rohrklammer manuell.
- Grapa de fijación tubo manual.

Code	Pipe	Price	Class	Packaging
CLIP20	≤ Ø20 mm	0,14 €	HP	100

**CLIP-FLAT 17**


- Clip fermatubo manuale per rete.
- Manual pipe clamping clip for net.
- Clip arret-tuyau manuel pour grille.
- Manueller Rohrhalterungsclip für Gitter.
- Pinza sujeta tubo manual para red.

Code	Pipe	Net	Price	Class	Packaging
CLIP17F3	Ø16 - Ø17 mm	Ø2 - Ø3 mm	0,29 €	HP	100

**CLIP-FLAT 20**


- Clip fermatubo manuale per rete.
- Manual pipe clamping clip for net.
- Clip arret-tuyau manuel pour grille.
- Manueller Rohrhalterungsclip für Gitter.
- Pinza sujeta tubo manual para red.

Code	Pipe	Net	Price	Class	Packaging
CLIP20F3	Ø20 mm	Ø2 - Ø3 mm	0,29 €	HP	100

**CLIP-FLAT 25**


- Clip fermatubo manuale per rete.
- Manual pipe clamping clip.
- Clip arret-tuyau manuel.
- Manueller Rohrhalterungsclip.
- Pinza sujeta tubo manual.

Code	Pipe	Net	Price	Class	Packaging
CLIP25F6	Ø25 mm	Ø3 - Ø6 mm	0,31 €	HP	100

**CLIP-NET**


- Fissatubo manuale per rete.
- Manual pipe fastener for net.
- Arret-tuyau manuel pour grille.
- Manueller Rohrhalterung für Gitter.
- Sujeta-tubo manual para red.

Code	Pipe	Net	Price	Class	Packaging
CLIP2025F8	Ø20 - Ø25 mm	Ø3 - Ø8 mm	0,38 €	HP	100

**BIN**



- **Binario con biadesivo per ancoraggio tubi. Interasse minimo di posa tubazioni: 50 mm.**
- *Rail with double-sided tape for pipes anchoring. Minimum distance for pipe placement 50 mm.*
- **Binaires avec ruban adhésif double face pour ancrage des tuyaux. Entraxe minimum de pose tuyauterie: 50 mm.**
- *Schiene mit doppelseitigem Klebeband für Rohrverankerung. Minimum Achsabstand für Verlegung von Rohrleitungen: 50 mm.*
- **Binario con cinta adhesiva de doble cara para el anclaje de las tuberías. Intereje mínimo para colocar las tuberías: 50 mm.**

Code	Pipe	Length	Price	Class	Packaging
BIN-17B	Ø16 - Ø17 mm	2 m	3,06 €/m	HP	32 m

**BIN-INDUSTRY**



- **Binario con biadesivo per ancoraggio tubi. Interasse minimo di posa tubazioni: 50 mm.**
- *Rail with double-sided tape for pipes anchoring. Minimum distance for pipe placement 50 mm.*
- **Binaires avec ruban adhésif double face pour ancrage des tuyaux. Entraxe minimum de pose tuyauterie: 50 mm.**
- *Schiene mit doppelseitigem Klebeband für Rohrverankerung. Minimum Achsabstand für Verlegung von Rohrleitungen: 50 mm.*
- **Binario con cinta adhesiva de doble cara para el anclaje de las tuberías. Intereje mínimo para colocar las tuberías: 50 mm.**

Code	Pipe	Length	Price	Class	Packaging
BIN-20B50	Ø20 mm	2 m	3,67 €/m	HP	32 m
BIN-25B50	Ø25 mm	2 m	5,30 €/m	HP	32 m

**FIB**



- **Fibre di rinforzo per massetti in calcestruzzo.**
- *Reinforcement fibres for concrete screeds.*
- **Fibres de renfort pour chapes en béton.**
- *Verstärkungsfasern für Beton-Versiegelungsschicht.*
- **Fibras de refuerzo para soleras de hormigón.**

Code	Dosage	Price	Class	Packaging
FIB-12	0,6 - 1,8 kg/m³	11,93 €	HP	1

**ADD-M**



- **Additivo per massetti in calcestruzzo.**
- *Additive for concrete screeds.*
- **Additif pour chapes en béton.**
- *Zusatzstoff für Beton-Versiegelungsschicht.*
- **Aditivo para contra-pisos de hormigón.**

Code	Dosage	Price	Class	Packaging
ADD-10M	1 l / 100 kg concrete	3,88 €/l	HP	10 l

**IV 100 LT**


- **Additivo inibitore antiincrostante per impianti a bassa temperatura.**
- *Anti-scaling inhibitor additive for low temperature systems.*
- **Additif inhibiteur anti-incrustant pour les systèmes à basse température.**
- *Anti-Kesselstein-Hemmender Zusatzstoff für Niedertemperatursysteme.*
- **Additivo antiincrustante inhibidor para sistemas de baja temperatura.**

Code	Size	Price	Class	Packaging
IV100LT	1 l	39,20 €/l	TI	1 l
IV100LT-10	10 kg	33,00 €/Kg	TI	10 Kg

**IV 400**


- **Additivo risanante.**
- *Sanitizing additive.*
- **Additif désembouant.**
- *Schlammferner.*
- **Additivo restaurativo.**

Code	Size	Price	Class	Packaging
IV400	1 l	43,30 €/l	TI	1 l
IV400-10	10 kg	36,80 €/Kg	TI	10 Kg



# ACCESSORIES FOR CEILING-WALL SYSTEMS

## IVAR-PE-Xa B



- Tubo PE-Xa con barriera EVOH a 3 strati completo di coibentazione termica.
- PE-Xa pipe with 3-layer EVOH barrier complete with thermal insulation.
- Tuyau PE-Xa avec barrière EVOH à 3 couches avec isolation thermique.
- 3-lagiges PE-Xa-3-Rohr komplett mit EVOH-Barriere und Wärmedämmung.
- Tubo PE-Xa con barrera EVOH de 3 capas con aislamiento térmico.

Code	Size	Insulation thickness	Color	Price	Class	Packaging
I-PEXA20RCB25	Ø20/2	10 mm		3,306 €/m	HN	25 m

## IVAR-PE-Xa R



- Tubo PE-Xa con barriera EVOH a 3 strati completo di coibentazione termica.
- PE-Xb/Al/PE-Xb multilayer pipe in coils complete with thermal insulation.
- Tuyau PE-Xa avec barrière EVOH à 3 couches avec isolation thermique.
- 3-lagiges PE-Xa-3-Rohr komplett mit EVOH-Barriere und Wärmedämmung.
- Tubo PE-Xa con barrera EVOH de 3 capas con aislamiento térmico.

Code	Size	Insulation thickness	Color	Price	Class	Packaging
I-PEXA20RCR25	Ø20/2	10 mm		3,306 €/m	HN	25 m

## FAS-SR



- Fascia perimetrale con adesivo parziale per sistemi a soffitto.
- Perimeter edging with partial adhesive for ceiling systems.
- Bande périmétrique avec adhésif partiel pour les systèmes à plafond.
- Umfangsband mit Teilkleber für Deckensysteme.
- Banda perimetral con adhesivo parcial para sistemas de techo.

Code	Size	Color	Price	Class	Packaging
FAS-150SR	150 x 3,3 mm		1,90 €/m	HP	50 m

## PPSU2



- Raccordo diritto ad innesto rapido per tubo polietilene.
- Quick coupling straight connector for polyethylene pipe.
- Raccord droit à enclenchement rapide pour tuyau en polyéthylène.
- Gerader Anschluss mit Schnellkupplung für Polyethylenrohr.
- Racor recto de conexión rápida para tubo de polietileno.

Code	Size	Price	Class	Packaging
PPSU2RV	10/1,3 x 10/1,3	1,52 €	IX	10

## PPSU1



- Raccordo diritto ad innesto rapido per tubo multistrato.
- Quick coupling straight connector for multilayer pipe.
- Raccord droit à enclenchement rapide pour tuyau multicouche.
- Gerader Anschluss mit Schnellkupplung für Verbundrohr.
- Racor recto de conexión rápida para tubo multicapa.

Code	Size	Price	Class	Packaging
PPSU1RV	20/2 x 20/2	4,93 €	IX	10

**PPSU6**


- **Raccordo ad angolo ridotto ad innesto rapido per tubo multistrato 20/2 e tubo in polietilene 10/1,3.**
- *Reduced quick coupling angle-connector for 20/2 multilayer pipe and 10/1,3 polyethylene pipe.*
- **Raccord à angle réduit à enclenchement rapide pour tuyau multicouche 20/2 et tuyau en polyéthylène 10/1,3.**
- *Reduzierter Winkel mit Schnellkupplung für Verbundrohr 20/2 und Polyethylenrohr 10/1,3.*
- **Racor codo reducido con conexión rápida para tubo multicapa 20/2 y tubo de polietileno 10/1,3.**

Code	Size	Price	Class	Packaging
PPSU6RV	20/2 x 10/1,3	4,93 €	IX	10

**PPSU9**


- **Raccordo ad angolo ad innesto rapido per tubo multistrato.**
- *Quick coupling angle-connector for multilayer pipe.*
- **Raccord à angle à enclenchement rapide pour tuyau multicouche.**
- *Winkel mit Schnellkupplung für Verbundrohr.*
- **Racor codo con conexión rápida para tubo multicapa.**

Code	Size	Price	Class	Packaging
PPSU9RV	20/2 x 20/2	5,46 €	IX	10

**PPSU4**


- **Raccordo a T ridotto ad innesto rapido per tubo multistrato 20/2 e tubo in polietilene 10/1,3.**
- *Reduced quick coupling T-connector for 20/2 multilayer pipe and 10/1,3 polyethylene pipe.*
- **Raccord en T réduit à enclenchement rapide pour tuyau multicouche 20/2 et tuyau en polyéthylène 10/1,3.**
- *Reduzierter T-Anschluss mit Schnellkupplung für Verbundrohr 20/2 und Polyethylenrohr 10/1,3.*
- **Racor en T reducido con conexión rápida para tubo multicapa 20/2 y tubo de polietileno 10/1,3.**

Code	Size	Price	Class	Packaging
PPSU4RV	20/2 x 10/1,3 x 20/2	5,46 €	IX	10

**PPSU3**


- **Raccordo a T ad innesto rapido per tubo multistrato.**
- *Quick coupling T-connector for multilayer pipe.*
- **Raccord en T à enclenchement rapide pour tuyau multicouche.**
- *T-Anschluss mit Schnellkupplung für Verbundrohr.*
- **Racor en T con conexión rápida para tubo multicapa.**

Code	Size	Price	Class	Packaging
PPSU3RV	20/2 x 20/2 x 20/2	7,29 €	IX	10

**PPSU5**


- **Raccordo a croce ridotto ad innesto rapido per tubo multistrato 20/2 e tubo in polietilene 10/1,3.**
- *Reduced quick coupling cross-connector for 20/2 multilayer pipe and 10/1,3 polyethylene pipe.*
- **Raccord à croix réduit à enclenchement rapide pour tuyau multicouche 20/2 et tuyau en polyéthylène 10/1,3.**
- *Reduzierter Kreuz-Anschluss mit Schnellkupplung für Verbundrohr 20/2 und Polyethylenrohr 10/1,3.*
- **Racor en cruz reducido con conexión rápida para tubo multicapa 20/2 y tubo de polietileno 10/1,3.**

Code	Size	Price	Class	Packaging
PPSU5RV	20/2 x 10/1,3 x 20/2 x 10/1,3	10,03 €	IX	1

### PPSU8



- Anello di tenuta per tubo polietilene.
- Sealing ring for polyethylene pipe.
- Bague d'étanchéité pour tuyau en polyéthylène.
- Dichtungsring für Polyethylenrohr.
- Anillo de sellado para tubo de polietileno.

Code	Size	Price	Class	Packaging
PPSU8RV	10/1,3	0,85 €	IX	50

### PPSU7



- Anello di tenuta per tubo multistrato.
- Sealing ring for multilayer pipe.
- Bague d'étanchéité pour tuyau multicouche.
- Dichtungsring für Verbundrohr.
- Anillo de sellado para tubo multicapa.

Code	Size	Price	Class	Packaging
PPSU7RV	20/2	1,56 €	IX	50

### ATRO1-07



- Utensile manuale per svasamento tubazione (senza espansore).
- Manual pipe flaring tool (without expanding jaw).
- Outil manuel pour l'évasement du tuyau (sans expenseur).
- Manuelles Werkzeug für Rohrkanten entgraten (ohne Expander).
- Herramienta manual para el abocardado del tubo (sin expansor).

Code	Size	Price	Class	Packaging
ATRO1-PPSU	Manual	442,11 €	IX	1
ATRO7-PPSU	Battery Powered	3.180,00 €	IX	1

### ATRO2/03



- Espansore per tubo multistrato/polietilene.
- Expanding jaw for multilayer/polyethylene pipe.
- Expenseur pour tuyau multicouche et en polyéthylène.
- Expander für Verbundrohr und Polyethylenrohr.
- Expansor para tubo multicapa y tubo de polietileno.

Code	Size	Price	Class	Packaging
ATRO2-PPSU	10/1,3	159,16 €	IX	1
ATRO3-PPSU	20/2	159,16 €	IX	1

### ATRO4



- Utensile di serraggio (senza pinza meccanica).
- Pressure sleeve tool (without pressure jaw).
- Outil de serrage (sans pince mécanique).
- Spannwerkzeug (ohne mechanische Zange).
- Herramienta de apriete (sin pinza mecánica).

Code	Price	Class	Packaging
ATRO4-PPSU	291,80 €	IX	1

**ATR05/06**


- Coppia di pinze meccaniche per tubo multistrato/polietilene.
- Pair of pressure jaws for multilayer/polyethylene pipe.
- Paire de pinces mécaniques pour tuyau multicouche et en polyéthylène.
- Paar mechanische Zangen für Verbundrohr und Polyethylenrohr.
- Par de pinzas mecánicas para tubo multicapa y tubo de polietileno.

Code	Size	Price	Class	Packaging
ATR05-PPSU	10/1,3	159,16 €	IX	1
ATR06-PPSU	20/2	126,03 €	IX	1

**ALU-RAC**


- Raccordo diritto ad innesto rapido per collegamento tubo / serpentina EASY-TEC.
- Quick coupling straight fitting for pipe / EASY-TEC coil connection.
- Raccord droit à enclenchement rapide pour le raccordement tuyau / serpentine EASY-TEC.
- Gerader Anschluss mit Schnellkupplung für die Verbindung Rohr / Spirale EASY-TEC.
- Racor recto para la conexión tubo / bobina EASY-TEC.

Code	Size	Price	Class	Packaging
500692	8/1 x 10/1,3	4,49 €	IX	30 / 120

**ISOL-PPSU**


- Isolante per raccordi.
- Insulation for fittings.
- Isolation pour les raccords.
- Isolierung für Kupplungen.
- Aislante para racores.

Code	Size	Price	Class	Packaging
ISOL-RACC	10 m	1,16 €/m	HP	10 m

**ISOL**


- Guaina isolante per tubazioni.
- Insulating sheath for pipes.
- Gaine isolante pour tuyaux.
- Isoliermantel für Rohre.
- Vaina aislante para tubos.

Code	Insulation thickness	Pipe	Length	Price	Class	Packaging
ISOL-10	6 mm	Ø10 mm	2 m	0,99 €/m	HP	2 m
ISOL-17	6 mm	Ø16 - Ø17 mm	2 m	1,27 €/m	HP	2 m
ISOL-20	6 mm	Ø20 mm	2 m	1,36 €/m	HP	2 m
ISOL-25	6 mm	Ø25 mm	2 m	1,59 €/m	HP	2 m

# DEHUMIDIFIERS

Dehumidifiers control air humidity and are therefore a natural accessory for radiator systems. They are particularly important in cooling systems to avoid the formation of condensation.

The DIP, DEP and DCS families differ for air flow rate and type of installation. All the units of the series can dehumidify isothermally (neutral air) and versions with "R" in the product code can also integrate cooling. False ceiling versions (from 750 m<sup>3</sup>/h) can be combined with a heat exchanger that can be purchased separately.

The units of the RER series are already all equipped with high efficiency heat recovery unit. The proposed versions dehumidify and integrate cooling.

## DIP 24



- Deumidificatore da incasso a parete.
- Recessed wall dehumidifier.
- Déshumidificateur à encastrement mural.
- In die Wand eingebauter Luftentfeuchter.
- Deshumidificador para empotrar en pared.

Code	Air flow rate	Neutral air	Additional battery	Price	Class	Packaging
D24	200 m <sup>3</sup> /h	✓	-	1.944,97 €	ZD	1
DR24	300 m <sup>3</sup> /h	-	✓	2.600,50 €	ZD	1

## DIP 24A



- Cassetta con pannello frontale in MDF per deumidificatore da incasso a parete.
- Cabinet with MDF wooden front panel for recessed wall dehumidifier.
- Casette avec panneau avant en MDF pour déshumidificateur à encastrement mural.
- MDF-Frontplattenkassette für in die Wand eingebauter Luftentfeuchter.
- Casette con panel frontal de MDF para deshumidificador para empotrar en pared.

Code	Component	Price	Class	Packaging
DA2401	Cabinet	158,48 €	ZD	1
DA2402	MDF wooden front panel	410,61 €	ZD	1

## DEP 24C



- Deumidificatore con mobile esterno a parete.
- Dehumidifier with external wall furniture.
- Déshumidificateur avec meuble extérieur mural.
- Luftentfeuchter mit externem Wandschrank.
- Deshumidificador con mueble externo de pared.

Code	Air flow rate	Neutral air	Additional battery	Price	Class	Packaging
D24C	200 m <sup>3</sup> /h	✓	-	2.622,11 €	ZD	1
DR24C	300 m <sup>3</sup> /h	-	✓	3.277,64 €	ZD	1

**DCS**


- Deumidificatore da incasso a controsoffitto.
- Recessed ceiling dehumidifier.
- Déshumidificateur à encastrement pour faux plafond.
- Luftentfeuchter für Deckeneinbau.
- Deshumidificador empotrado para falso techo.

Code	Air flow rate	Neutral air	Additional battery	Price	Class	Packaging
D20	200 m³/h	✓	-	1.944,97 €	ZD	1
D35	350 m³/h	✓	-	2.614,91 €	ZD	1
D50	500 m³/h	✓	-	3.270,43 €	ZD	1
DR20	300 m³/h	-	✓	2.600,50 €	ZD	1
DR35	350 m³/h	-	✓	3.421,71 €	ZD	1
DR50	500 m³/h	-	✓	4.142,07 €	ZD	1
DR75	750 m³/h	-	✓	7.556,58 €	ZD	1
DR100M	1000 m³/h	-	✓	8.212,10 €	ZD	1
DR200M	2000 m³/h	-	✓	11.424,91 €	ZD	1

**RCS**


- Recuperatore di calore per deumidificatore da incasso a controsoffitto.
- Heat recovery unit for recessed ceiling dehumidifier.
- Récupérateur de chaleur pour déshumidificateur à encastrement pour faux plafond.
- Wärmerückgewinner für Luftentfeuchter für Deckeneinbau.
- Recuperador de calor para deshumidificador empotrado para falso techo.

Code	Air flow rate	Price	Class	Packaging
R75	750 m³/h	4.394,20 €	ZD	1
R100M	1000 m³/h	4.718,36 €	ZD	1
R200M	2000 m³/h	5.784,49 €	ZD	1

**PLENUM-DA**


- Plenum di mandata per deumidificatori a controsoffitto.
- Plenum chamber for ceiling mounted dehumidifiers.
- Plénum de refoulement pour déshumidificateurs pour faux plafond.
- Ausblasplenum für Luftentfeuchter für Deckeneinbau.
- Plenum de impulsión para deshumidificadores en falso techo.

Code	Ways	Size	Price	Class	Packaging
PLEN-4	4	Ø100 mm	223,31 €	ZD	1
PLEN-6	6	Ø100 mm	244,92 €	ZD	1

**RER**


- Deumidificatore da incasso a controsoffitto con recuperatore di calore ad alta efficienza e serrande motorizzate.
- Recessed ceiling dehumidifier with high efficiency heat recovery and motorized shutters.
- Déshumidificateur à encastrement pour faux plafond avec récupération de chaleur à haut rendement et volets motorisés.
- Luftentfeuchter für Deckeneinbau mit Wärmerückgewinnung mit hoher Effizienz.
- Deshumidificador para empotrar en falso techo con recuperador de calor y alta eficiencia.

Code	Total air flow rate	Fresh air flow rate	Additional battery	Price	Class	Packaging
RER020I-P	360 m³/h	220 m³/h	✓	9.068,88 €	ZD	1
RER050I-P	500 m³/h	300 m³/h	✓	10.544,40 €	ZD	1

# HYGROSTATS

## ■ HYGR-GC



- **Cronotermostato con sensore di umidità.**
- *Timed thermostat with humidity sensor.*
- **Chronothermostat avec capteur d'humidité.**
- *Chronothermostat mit Feuchtigkeitssensor.*
- **Cronotermostato con sensor de humedad.**

Code	Power supply	Price	Class	Packaging
HYGR-GC	Battery	292,06 €	ZD	1

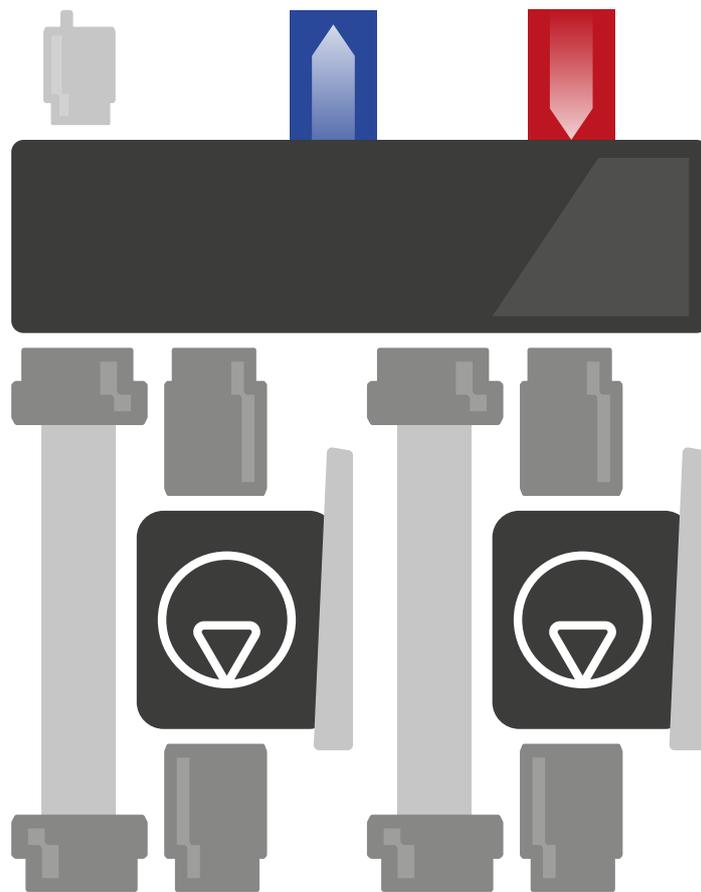
## ■ ACH 01



- **Sonda cieca di temperatura/umidità per regolatore CLIMA-HUB.**
- *Blind temperature/humidity probe for CLIMA-HUB regulator.*
- **Capteur aveugle de température / humidité pour régulateur CLIMA-HUB.**
- *Blind Temperatur- und Feuchtigkeitssensor für Steuereinheit CLIMA-HUB.*
- **Sensor ciego de temperatura / humedad para regulador CLIMA-HUB.**

Code	Size	Price	Class	Packaging
OSDTH00	24 V DC	165,74 €	VA	1

# THERMAL POWER STATION



[pim.ivar-group.com/short/IT-05](http://pim.ivar-group.com/short/IT-05)



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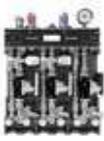
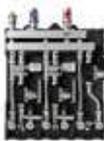


[pim.ivar-group.com/short/ES-05](http://pim.ivar-group.com/short/ES-05)



**DOWNLOAD**



	<p><b>DIRTSTOP® - Defangatore magnetico con filtro</b>  <i>DIRTSTOP® - Magnetic dirt separator with strainer</i>  <b>DIRTSTOP® - Pot à boue magnétique avec filtre</b>  <i>DIRTSTOP® - Magnetischer Schlammabscheider mit Filter</i>  <b>DIRTSTOP® - Desfangador magnético con filtro</b></p>	344
	<p><b>DIRTSTOP® XL - Defangatore magnetico a triplice azione filtrante</b>  <i>DIRTSTOP® XL - Magnetic dirt separator with triple filtering action</i>  <b>DIRTSTOP® XL - Pot à boue magnétique à triple action de filtrage</b>  <i>DIRTSTOP® XL - Magnetischer Schlammabscheider mit dreifach wirkender Filtration</i>  <b>DIRTSTOP® XL - Desfangador magnético con filtración de triple acción</b></p>	348
	<p><b>POLIFEMO® - Dosatore di polifosfati e silicati</b>  <i>POLIFEMO® - Polyphosphates and silicates doser</i>  <b>POLIFEMO® - Distributeur de polyphosphates et de silicates</b>  <i>POLIFEMO® - Polyphosphaten- und Silikatenspender</i>  <b>POLIFEMO® - Dispensador de polifosfatos y silicatos</b></p>	350
	<p><b>BRIX - Neutralizzatore di condensa acida</b>  <i>BRIX - Acid condensate neutralizer</i>  <b>BRIX - Neutralisant de condensat acide</b>  <i>BRIX - Säurekondensat-Neutralisator</i>  <b>BRIX - Neutralizador de condensados ácidos</b></p>	352
	<p><b>MULTIMIX - Sistema compatto di distribuzione sottocaldaia</b>  <i>MULTIMIX - Compact boiler distribution system</i>  <b>MULTIMIX - Système compact de distribution sous-chaudière</b>  <i>MULTIMIX - Kompakt-Verteilersystem Kesselunterbau</i>  <b>MULTIMIX - Sistema compacto de distribución bajo caldera</b></p>	354
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	<p><b>VARIMIX - Sistema modulare per centrali termiche</b>  <i>VARIMIX - Modular system for thermal power stations</i>  <b>VARIMIX - Système modulaire pour centrales thermiques</b>  <i>VARIMIX - Modulares System für Heizungsanlagen</i>  <b>VARIMIX - Sistema modular para centrales térmicas</b></p>	376
	<p><b>Accumulatori</b>  <i>Storage tanks</i>  <b>Réservoirs d'accumulation</b>  <i>Speicher</i>  <b>Acumuladores</b></p>	385

	<p><b>Valvole miscelatrici assiali termostattizzabili per elevate portate</b>  <i>Thermostatic axial mixing valves for high flow capacity</i>  <b>Vannes mélangeuses axiales thermostatisables pour débit élevé</b>  <i>Axiale Thermostat-Mischventile für erhöhte Durchfluss</i>  <b>Válvulas mezcladoras axiales termostaticables para caudales elevados</b></p>	<b>394</b>
	<p><b>Valvole miscelatrici assiali termostattizzabili</b>  <i>Thermostatic axial mixing valves</i>  <b>Vannes mélangeuses axiales thermostatisables</b>  <i>Axiale Thermostat-Mischventile</i>  <b>Válvulas mezcladoras axiales termostaticables</b></p>	<b>395</b>
	<p><b>Valvole miscelatrici a settore</b>  <i>Rotor mixing valves</i>  <b>Vannes mélangeuses à rotor</b>  <i>Rotor-Mischventile</i>  <b>Válvulas mezcladoras de rotor</b></p>	<b>396</b>
	<p><b>Valvole di sicurezza</b>  <i>Safety valves</i>  <b>Clapets de sécurité</b>  <i>Sicherheitsventile</i>  <b>Válvulas de seguridad</b></p>	<b>400</b>
	<p><b>Gruppi di alimentazione automatici</b>  <i>Automatic filling groups</i>  <b>Groupes d'alimentation automatiques</b>  <i>Hauswasserstationen</i>  <b>Grupos de alimentación automáticos</b></p>	<b>402</b>
	<p><b>Valvole di bypass differenziale</b>  <i>Bypass differential valves</i>  <b>Vannes de by-pass différentielles</b>  <i>Differenziale Bypass-Ventile</i>  <b>Válvulas de bypass diferenciales</b></p>	<b>403</b>



# DIRTSTOP®

DirtSTOP®, is a magnetic dirt separator with double-action strainer, which thanks to its patented swivelling insert, guarantees maximum efficiency in all four installation positions.

The metal parts of the heating system are subject to corrosion effects, which release ferrous impurities into the water. Other impurities may also be present, for example due to limescale. These impurities tend to accumulate in the system parts with reduced transit sections, causing obstructions, noise or other malfunctions.

DirtSTOP® keeps the heating system in the best possible condition, while periodic cleaning of the strainer is simple and quick, without the need to drain the system.

## Materials:

Body: technopolymer IXEF®  
Connection kit: brass CW617N  
Strainer mesh: stainless steel AISI 304  
Sealing elements: peroxide EPDM

## Technical specifications:

Temperature: 0 - 90 °C  
Pmax: 3 bar  
Neodymium magnet (B = 1.2 T = 12,000 G)  
Kv for insert in position A:  
6.2 straight configuration;  
5.6 angle configuration.  
Kv for insert in position B:  
5.7 straight configuration;  
5.5 angle configuration  
Max. flow rate: 1.46 m³/h.  
Compatible with water or glycol solution (max. 50%).  
Connections: 3/4" M x 3/4" F  
Filter mesh: 800 µm

## ⊕ PLUS



- 1 ULTRA COMPACT:** for easy installation even in confined spaces.
- 2 Four different INSTALLATION POSITIONS** (see fig. 1).
- 3 BODY IN IXEF TECHNOPOLYMER®:** extraordinary mechanical properties, comparable to brass. Corrosion-resistant.
- 4 SWIVELLING INSERT (Patent Pending):** maximum efficiency in any installation position.
- 5 Internal STRAINER with 800 µm mesh.**
- 6 LARGE SETTLING CHAMBER, WITH 360° SWIVEL FITTING:** conveys waste to the drain valve.
- 7 SHUTOFF DRAIN VALVE:** enables easy and quick cleaning also with the system running (see fig. 2).
- 8 POWERFUL MAGNET WITH VERTICAL POLARISATION** to generate a much more uniform magnetic field, thus optimising capture of all impurities.

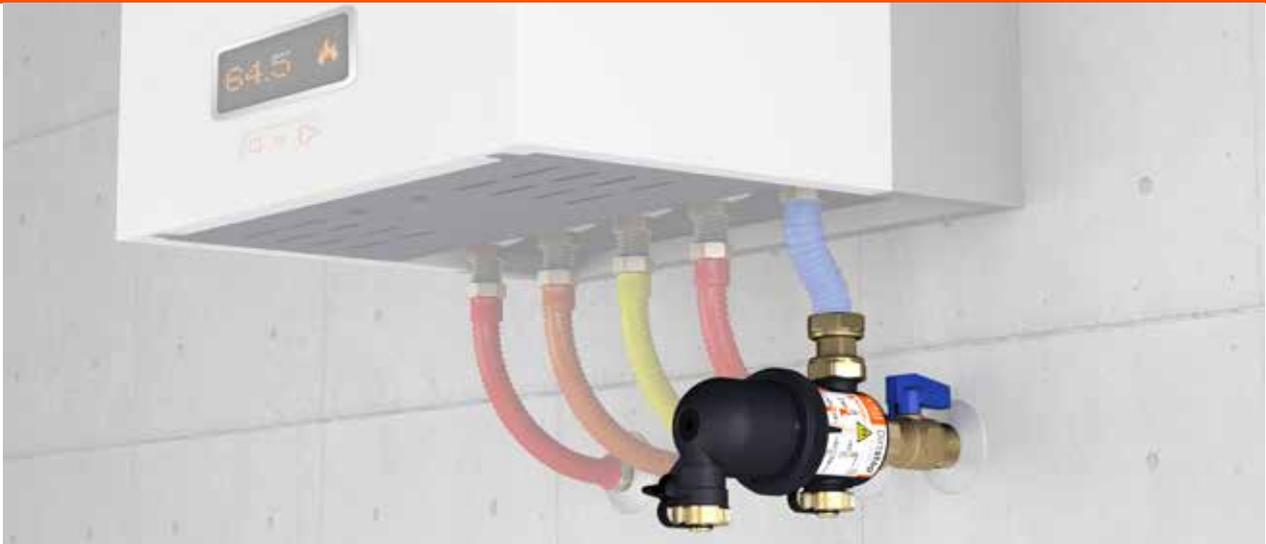
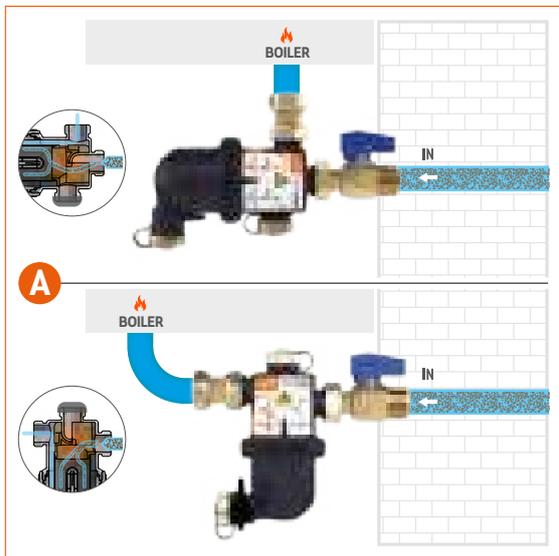


Fig. 1

**A** Swivel insert in POSITION A (factory position)



Swivel insert in POSITION B (rotated 180°)

**B**

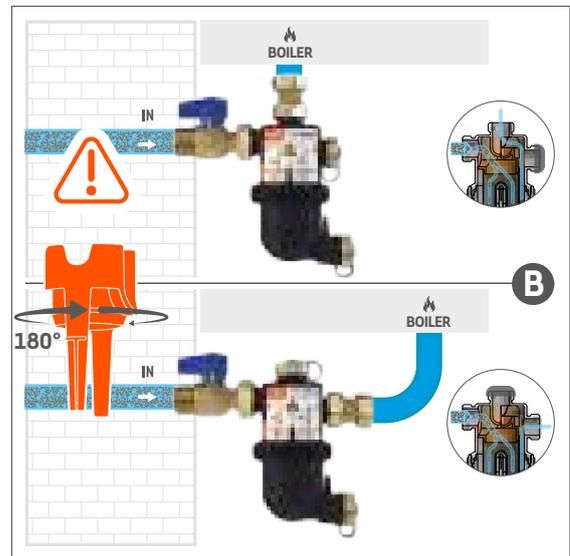
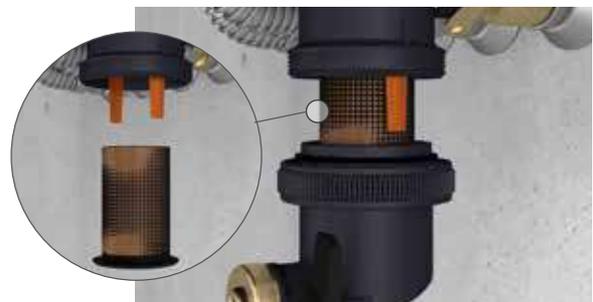


Fig. 2

**ROUTINE CLEANING** to remove waste and sludge that accumulates at the bottom of the settling chamber, via the integrated drain valve.



**SPECIAL CLEANING** via the strainer mesh and lower casing, to be carried out at least once a year.



### DIRTSTOP®



- Defangatore magnetico orientabile compatto con filtro interno completo di valvola di intercettazione a sfera diritta, raccordo girevole e raccordo portagomma.
- Compact swiveling magnetic dirt separator with strainer complete with straight isolation ball valve, swiveling fitting and tap connector.
- Pot à boue magnétique orientable compact avec filtre interne complet de vanne d'interception à bille droite, raccord pivotant et nez de robinet.
- Kompakter drehbarer magnetischer Schlammabscheider mit internem Filter komplett mit Durchgangs-Absperrkugelventil, drehbarer Verbinder und Hahnverbinder.
- Desfangador magnético compacto orientable con filtro interno completo de válvula de cierre de bola recta, conector giratorio y conector de grifo.

Code	Size	Color	Price	Class	Packaging
520049	3/4" F x 3/4" M	■	103,50 €	TI	1 / 12
520049W	3/4" F x 3/4" M	□	103,50 €	TI	1 / 12

### DSK 01



- Defangatore magnetico orientabile compatto con filtro interno completo di valvola di intercettazione a sfera diritta, raccordo girevole, raccordo portagomma, additivi IV 400 e IV 100 HT/LT (confezioni da 1 l).
- Compact swiveling magnetic dirt separator with strainer complete with straight isolation ball valve, swiveling fitting, tap connector, IV 400 and IV 100 HT/LT additives (1 l packs).
- Pot à boue magnétique orientable compact avec filtre interne complet de vanne d'interception à bille droite, raccord pivotant, nez de robinet, additifs IV 400 et IV 100 HT/LT (paquets de 1 l).
- Kompakter drehbarer magnetischer Schlammabscheider mit internem Filter komplett mit Durchgangs-Absperrkugelventil, drehbarer Verbinder, Hahnverbinder, IV 400 und IV 100 HT/LT Zusatzstoffe (Ein-Liter-Packungen).
- Desfangador magnético compacto orientable con filtro interno completo de válvula de cierre de bola recta, conector giratorio, conector de grifo, aditivos IV 400 y IV 100 HT/LT (paquetes de 1 l).

Code	Size	IV 400	IV 100 HT	IV 100 LT	Color	Price	Class	Packaging
520050HT	3/4" F x 3/4" M	✓	✓	-	■	182,00 €	TI	1 / 5
520050LT	3/4" F x 3/4" M	✓	-	✓	■	186,00 €	TI	1 / 5
520050WHT	3/4" F x 3/4" M	✓	✓	-	□	182,00 €	TI	1 / 5
520050WLT	3/4" F x 3/4" M	✓	-	✓	□	186,00 €	TI	1 / 5

### AC 627



- Bocchettone ridotto girevole a tenuta morbida.
- Reduced soft seal fitting.
- Embout à étanchéité souple réduite.
- Reduziert Selbstdichtensstutzen.
- Manguito de unión reducido con junta blanda.

Code	Size	Color	Price	Class	Packaging
550551	3/4" F x 1"1/4 F	■	11,23 €	NJ	10 / 80
550551N	3/4" F x 1"1/4 F	■	11,59 €	NJ	10 / 80

### ACV 01



- Accessorio per l'installazione di DIRTSTOP® su caldaie con attacchi orizzontali (compatibile con caldaie Vaillant EcoTEC pro, EcoTEC plus, EcoTEC exclusive).
- Accessory for DIRTSTOP® installation on boilers with horizontal connections (compatible with Vaillant boilers EcoTEC pro, EcoTEC plus, EcoTEC exclusive).
- Accessoire pour l'installation de DIRTSTOP® sur chaudières avec connexions horizontales (compatible avec les chaudières Vaillant EcoTEC pro, EcoTEC plus, EcoTEC exclusive).
- Zubehör zur Installation von DIRTSTOP® an Kesseln mit horizontale Verbindungen (kompatibel mit Vaillant-Kessel EcoTEC pro, EcoTEC plus, EcoTEC exclusive).
- Accesorio para instalar DIRTSTOP® en calderas con conexiones horizontales (compatible con calderas Vaillant EcoTEC pro, EcoTEC plus, EcoTEC exclusive).

Code	Size	Price	Class	Packaging
520126	3/4"   Ø18/1 x 45 mm	11,39 €	JC	10

**IV 400**


- **Additivo risanante.**
- *Sanitizing additive.*
- **Additif désembouant.**
- *Schlamm Entferner.*
- **Additivo restaurativo.**

Code	Size	Price	Class	Packaging
IV400	1 l	43,30 €/l	TI	1 l
IV400-10	10 kg	36,80 €/Kg	TI	10 Kg

**IV 100 HT**


- **Additivo inibitore antiincrostante per impianti ad alta temperatura.**
- *Anti-scaling inhibitor additive for high temperature systems.*
- **Additif inhibiteur anti-incrustant pour les systèmes à haute température.**
- *Anti-Kesselstein-Hemmender Zusatzstoff für Hochtemperatursysteme.*
- **Additivo antiincrustante inibidor para sistemas de alta temperatura.**

Code	Size	Price	Class	Packaging
IV100HT	1 l	35,30 €/l	TI	1 l
IV100HT-10	10 kg	28,90 €/Kg	TI	10 Kg

**IV 100 LT**


- **Additivo inibitore antiincrostante per impianti a bassa temperatura.**
- *Anti-scaling inhibitor additive for low temperature systems.*
- **Additif inhibiteur anti-incrustant pour les systèmes à basse température.**
- *Anti-Kesselstein-Hemmender Zusatzstoff für Niedertemperatursysteme.*
- **Additivo antiincrustante inibidor para sistemas de baja temperatura.**

Code	Size	Price	Class	Packaging
IV100LT	1 l	39,20 €/l	TI	1 l
IV100LT-10	10 kg	33,00 €/Kg	TI	10 Kg

# DIRTSTOP® XL

DirtSTOP® XL is the new high-performance magnetic dirt separator from IVAR, with **triple strainer action**:

1. swirling motion to help waste settling
2. powerful magnet (14000 gauss)
3. strainer cartridge to separate the smaller particles.

The special patented inner insert guides the flow into a vortex, to facilitate separation of the waste by cyclonic action, before magnetic and mechanical straining.

The compact dimensions and swivel fitting make this product ideal for installation in any system configuration. The device is fitted with a manual air bleed valve and drain valve, with large collection chamber to reduce the frequency of bleeding.

## Materials:

Body, cyclonic insert, locking ring nut, Tee fitting: PA66 + FV 30%  
 Strainer cartridge: AISI 304 stainless steel  
 Sealing elements: peroxide EPDM

## Technical specifications:

Neodymium magnet (14,000 G)  
 Temperature: 0 - 90 °C  
 Kv: 6.7  
 Max. flow rate: 2.13 m<sup>3</sup>/h\*  
 Pmax: 3 bar  
 Compatible with water or glycol solution (max. 50%).  
 Connections: Ø22 copper pipe; 3/4" F; 1" F; 1"1/4 F  
 Initial cleaning strainer mesh: 500 µm  
 Standard strainer mesh: 800 µm

\*check compatibility of flow rate with other system components

**PROVISION for AIR BLEEDING**  
using the dedicated bleed valve.

**WIDE RANGE OF CONNECTIONS AVAILABLE.**

**MAGNETIC AND MECHANICAL FILTRATION**  
of system impurities.

**TRIPLE ACTION**

- 1** The patented insert creates a **VORTEX** in the moving water. Separate settling chamber to encourage settling of waste.
 

Swirling movement (vortex)
- 2** **HIGH-POWER MAGNET** (14,000 Gauss) provides improved retention of metallic impurities.
 

Powerful magnet
- 3** **STEEL FILTER MESH: 500 µm** first-pass filter, **800 µm** maintenance filter.
 

Filter cartridge

**8 possible pipework installation POSITIONS,**  
horizontal, vertical and oblique.

**DOSING of FLUIDS** to clean the system using additives.

Ideal for residential **HEAT PUMPS.**

**DIRTSTOP® XL**


- Defangatore magnetico orientabile a triplice azione filtrante completo di valvole di intercettazione a sfera dritte e chiave per montaggio/smontaggio.
- Swiveling magnetic dirt separator with triple filtering action complete with straight isolation ball valves and key for installation/removal.
- Pot à boue magnétique orientable à triple action de filtrage complet de vannes d'interception à bille droites et clé pour montage/démontage.
- Drehbarer magnetischer Schlammabscheider mit dreifach wirkender Filtration komplett mit Durchgangs-Absperkkugelventile und Schlüssel für Montage und Demontage.
- Desfangador magnético orientable con filtración de triple acción completo de válvulas de cierre de bola rectas y llave para montaje/desmontaje.

Code	Size	Color	Price	Class	Packaging
520124	Ø22 x Ø22 Copper pipe	■	193,50 €	TI	1 / 5
520135	3/4" F x 3/4" F	■	183,00 €	TI	1 / 5
520136	1" F x 1" F	■	193,50 €	TI	1 / 5
520139	1"1/4 F x 1"1/4 F	■	203,80 €	TI	1 / 5

**DIRTSTOP® XL P**


- Defangatore magnetico orientabile a triplice azione filtrante completo di chiave per montaggio/smontaggio.
- Swiveling magnetic dirt separator with triple filtering action complete with key for installation/removal.
- Pot à boue magnétique orientable à triple action de filtrage complet de clé pour montage/démontage.
- Drehbarer magnetischer Schlammabscheider mit dreifach wirkender Filtration komplett mit Schlüssel für Montage und Demontage.
- Desfangador magnético orientable con filtración de triple acción completo de llave para montaje/desmontaje.

Code	Size	Color	Price	Class	Packaging
520153	1" M x 1" M	■	171,40 €	TI	1 / 5

**AC 655 G**


- Coppia di valvole a sfera dritte femmina-femmina complete di dado girevole, manovra a farfalla.
- Pair of female-female straight ball valves with swivelling nut, butterfly operation.
- Set de vannes à bille droites femelle-femelle avec écrou rotatif, manoeuvre à papillon.
- Paar Durchgangs-Kugelventil IG-IG mit drehbarer Mutter und Flügelgriff.
- Conjunto de válvulas de bola rectas hembra-hembra completas de manguito de tuerca giratoria, vuelta a mariposa.

Code	Size	Price	Class	Packaging
520194	1" F swivel x Ø22 copper pipe	43,00 €	TI	1 / 24
520195	1" F swivel x 3/4" F	32,40 €	TI	1 / 24
520196	1" F swivel x 1" F	43,00 €	TI	1 / 24
520197	1" F swivel x 1"1/4 F	53,30 €	TI	1 / 24

**DIRTSTOP® XL B**


- Defangatore magnetico orientabile a triplice azione filtrante completo di raccordo a T in ottone e chiave per montaggio/smontaggio.
- Swiveling magnetic dirt separator with triple filtering action complete with brass Tee fitting and key for installation/removal.
- Pot à boue magnétique orientable à triple action de filtrage complet de raccord à T en laiton et clé pour montage/démontage.
- Drehbarer magnetischer Schlammabscheider mit dreifach wirkender Filtration komplett mit T-Stück aus Messing und Schlüssel für Montage und Demontage.
- Desfangador magnético orientable con filtración de triple acción completo de racor en Te de latón y llave para montaje/desmontaje.

Code	Size	Color	Price	Class	Packaging
520154	1" F x 1" F	■	172,50 €	TI	1 / 5



• IV 400 >> p. 333,347



• IV 100 HT >> p. 347



• IV 100 LT >> p. 333,347

Polyphosphate doser has to be installed on the pipes which supply water to the boiler (and other appliances such as washing machines and dishwashers) to reduce the presence of limestone. It is therefore very useful in case of hard or very hard water. The polyphosphates released by the doser create a protection film in the pipes, useful to avoid the corrosion caused by limestone.

POLIFEMO® can be installed both in vertical and horizontal positions (Fig. 1) thanks to a special tee connection. For a correct display of the level indicator, it is preferable to use the vertical installation position.

POLIFEMO® PLUS is the only dosing device of its kind that allows the replacement of polyphosphates when the system is working, thanks to its patented bypass system (Fig. 2).

Fig. 1

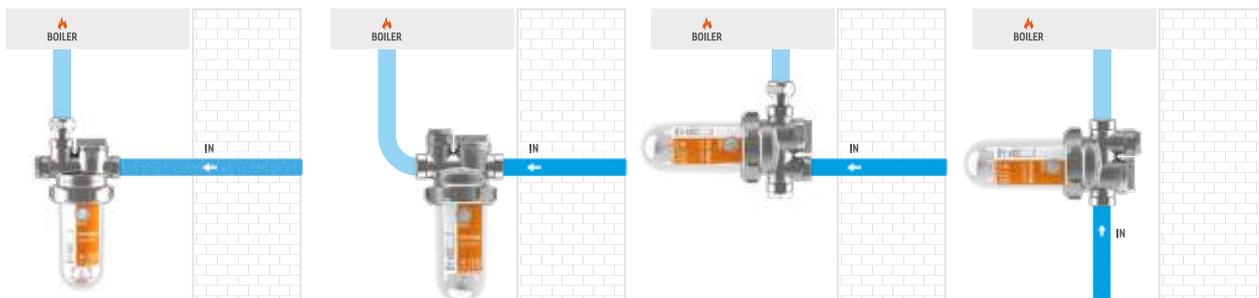
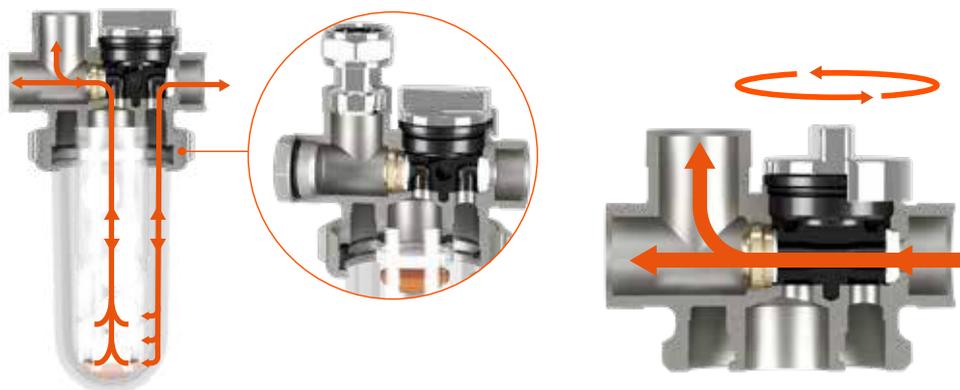


Fig. 2



## ⊕ PLUS

- **Limescale action: phosphate dosage prevents precipitation of calcium and magnesium carbonates**
- **Protective action against corrosion thanks to silicate dosage**
- **Filtering action by 100 µm mesh**
- **Level indicator with transparent glass for easy inspection**
- **Robustness and reliability: brass cap, simple and effective operation principle**

**■ POLIFEMO®**


- **Dosatore di polifosfati e silicati completo di kit di connessione e chiave per montaggio/smontaggio cartuccia.**
- *Polyphosphate and silicates doser complete with connection kit and wrench for cartridge installation/removal.*
- **Distributeur de polyphosphates et de silicates complet avec kit de connexion et clé pour montage/démontage de la cartouche.**
- *Polyphosphaten- und Silikatenspender komplett mit Anschluß-Set und Schlüssel für Montage und Demontage des Einsatz.*
- **Dispensador de polifosfatos y silicatos con kit de conexión y llave para montaje/desmontaje del cartucho.**

Code	Size	Price	Class	Packaging
520150	DN 15	103,50 €	TI	1 / 16

**■ POLIFEMO® PLUS**


- **Dosatore di polifosfati e silicati con bypass, completo di kit di connessione e chiave per montaggio/smontaggio cartuccia.**
- *Polyphosphate and silicates doser with bypass, complete with connection kit and wrench for cartridge installation/removal.*
- **Distributeur de polyphosphates et de silicates avec bypass, complet avec kit de connexion et clé pour montage/démontage de la cartouche.**
- *Polyphosphaten- und Silikatenspender mit Bypass, komplett mit Anschluß-Set und Schlüssel für Montage und Demontage des Einsatz.*
- **Dispensador de polifosfatos y silicatos con bypass, kit de conexión y llave para montaje/desmontaje del cartucho.**

Code	Size	Price	Class	Packaging
520151	DN 15	123,50 €	TI	1 / 8

**■ APF 01**


- **Coppia di cartucce di ricambio complete di filtro e polifosfati.**
- *Pair of spare cartridges complete with strainer and polyphosphate.*
- **Paire de cartouches de rechange avec filtre et polyphosphate.**
- *Ersatzeinsatzpaar komplett mit Filter und Polyphosphat.*
- **Par de cartuchos de repuesto con filtro, completos de polifosfato.**

Code	Price	Class	Packaging
520152	29,00 €	TI	8 / 32

**■ APF 02**


- **Chiave di ricambio per montaggio/smontaggio cartuccia.**
- *Spare wrench for cartridge installation/removal.*
- **Clé de rechange pour montage/démontage de la cartouche.**
- *Ersatzschlüssel für Montage und Demontage des Einsatz.*
- **Llave de repuesto para montaje/desmontaje del cartucho.**

Code	Size	Price	Class	Packaging
CH0002	2"	5,30 €	TI	1



BRIX is an acid condensate neutralizer to be installed downstream of the condensate drain of condensing boilers. In fact, condensing boilers can recover heat by condensing the combustion gases before they are expelled. The resulting condensate, however, has a very low (acid) pH because of the carbon dioxide produced during combustion thus is very corrosive and potentially dangerous for the domestic sewage network. Thanks to the presence of BRIX, the acid condensate from the boiler passes through the calcium carbonate ( $\text{CaCO}_3$ ) charge which neutralizes it. The condensate pH rises ( $\text{pH} > 6$ ), thus allowing to discharge the fluid safely.

#### Materials:

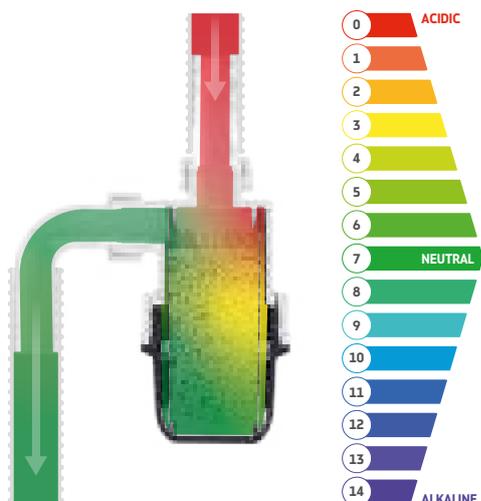
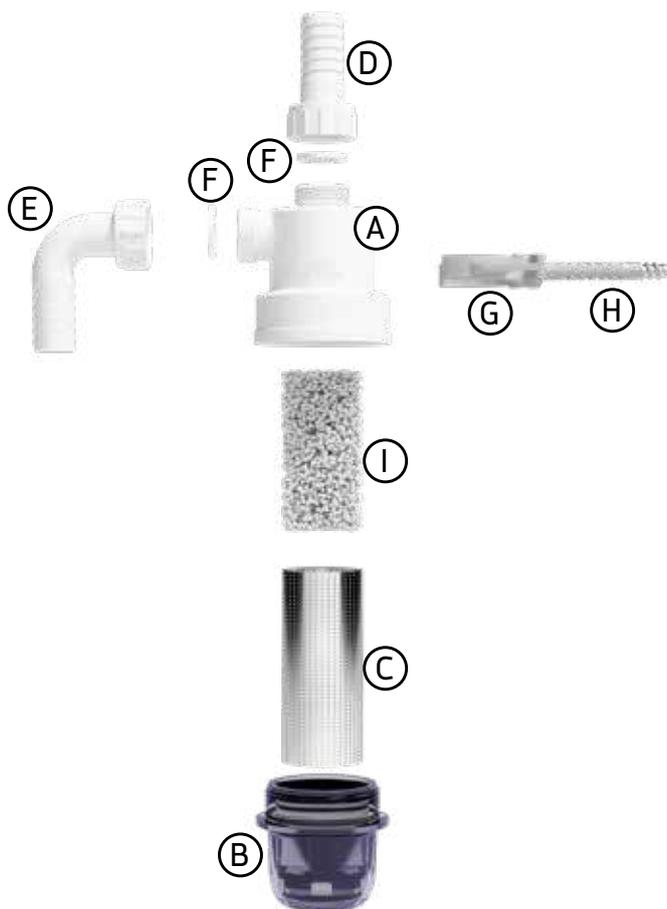
Transparent capsule: Nylon 12  
 Threaded body: PA 66  
 Gasket: peroxide EPDM  
 Neutralizing charge container: stainless steel AISI 304  
 Neutralizing agent: Calcium carbonate ( $\text{CaCO}_3$ )

#### Technical specifications:

Operating temperature:  $5 \div 50 \text{ }^\circ\text{C}$   
 Compatible fluids: Water / Acid condensate  
 Connections:  $3/4'' \times \text{Ø}16 / \text{Ø}20$ , straight/elbow, switchable

#### Components:

- A. Body with threaded connections.
- B. Transparent capsule.
- C. Neutralizing charge container.
- D. Straight hose connection.
- E. Elbow hose connection.
- F. Gasket.
- G. Clamp.
- H. Screw anchor.
- I. Neutralizing agent calcium carbonate ( $\text{CaCO}_3$ ).



## **+** PLUS

- **Neutralizing action to prevent corrosion from acid condensation.**
- **Quick and easy maintenance thanks to the stainless-steel neutralizer charge container which facilitates the refilling and replacement of the neutralizing charge.**
- **Reversible connections to easily adapt to different installation positions.**
- **Extremely compact to easily find a place under the boiler.**
- **Transparent body to always keep the neutralizing charge level under control.**


**BRIX**


- **Neutralizzatore di condensa acida completo di kit di connessione e due confezioni di carbonato di calcio (una confezione omaggio).**
- **Acid condensate neutralizer complete with connection kit and two packs of calcium carbonate (one pack free).**
- **Neutralisant de condensat acide complet avec kit de connexion et deux paquets de carbonate de calcium (un paquet gratuit).**
- **Säurekondensat-Neutralisator komplett mit Anschluß-Set und zwei Packungen Calciumcarbonat (eine freie Packung).**
- **Neutralizador de condensados ácidos con kit de conexión y dos paquetes de carbonato de calcio (un paquete gratis).**

Code	Size	Price	Class	Packaging
520200	3/4" x Ø16	72,00 €	TI	6
520201	3/4" x Ø20	72,00 €	TI	6

**ABX 01**


- **Kit composto da 6 confezioni di carbonato di calcio per neutralizzatore di condensa acida .**
- **Kit with 6 packs of calcium carbonate for acid condensate neutralizer.**
- **Kit avec 6 packs de carbonate de calcium pour neutralisant de condensat acide.**
- **Kit mit 6 Packungen von Calciumcarbonat für Säurekondensat-Neutralisator.**
- **Kit con 6 paquetes de carbonato de calcio para neutralizador de condensados ácidos.**

Code	Size	Price	Class	Packaging
520203	6 x 130 g	19,50 €	TI	1

# MULTIMIX

The MULTIMIX system is a substation for mixing and boosting, which enables the transfer of fluids at different temperatures to each thermal zone via a distribution kit, made independent by the pressure equaliser incorporated in the main manifold. The extraordinarily compact size facilitates installation below the boiler and in confined spaces.

MULTIMIX is made up of the manifold/separator and direct kits, or versions with mixer, which can be configured and combined to meet specific requirements. Pre-assembled configurations are also available with insulation casing in polypropylene and/or metal recess cabinet.

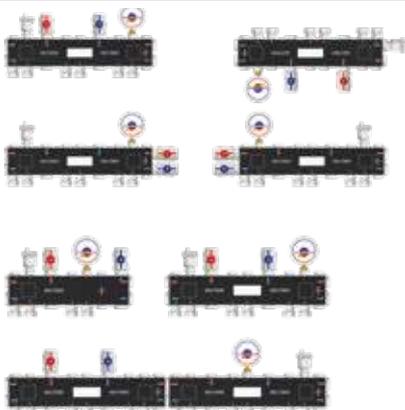
MULTIMIX can also be supplied via side connections, and enables the connection of two or more manifolds to one another. Unlike MULTIMIX-C, this system enables the temporary or permanent disablement of the hydraulic separation function, useful in cases such as connection to an inertial storage unit.

Max. primary flow rate: 3000 l/h

Max. flow rate per kit: 1700 l/h

## ⊕ PLUS

- Compact, modular and expandable
- Integrated hydraulic separator in main manifold
- Possibility of supply from top to bottom, right/left
- Pre-assembled configurations available
- Suitable for heating and cooling



### MANIFOLD/SEPARATOR

- Three functions:
  - Flow manifold
  - Return manifold
  - Hydraulic separator (with shutoff provision)
- Connections to primary from right, left, top or bottom
- Connections for multiple heat generators simultaneously
- Two or three zones, expandable with additional module via side connection



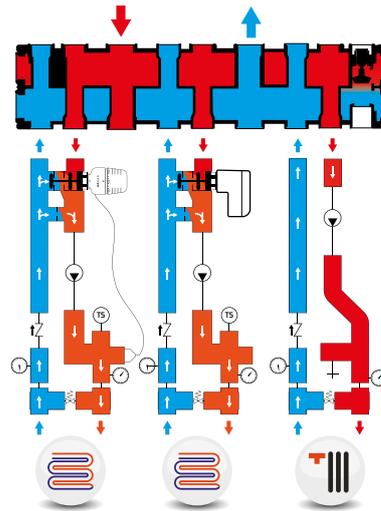
### DISTRIBUTION AND MIXING KIT

- Three-way piston mixing valve and secondary bypass
- Option of fixed point or climate control
- Pump with shutoff provision and simplified installation thanks to telescopic connection
- Safety thermostat, thermometers, non-return valve



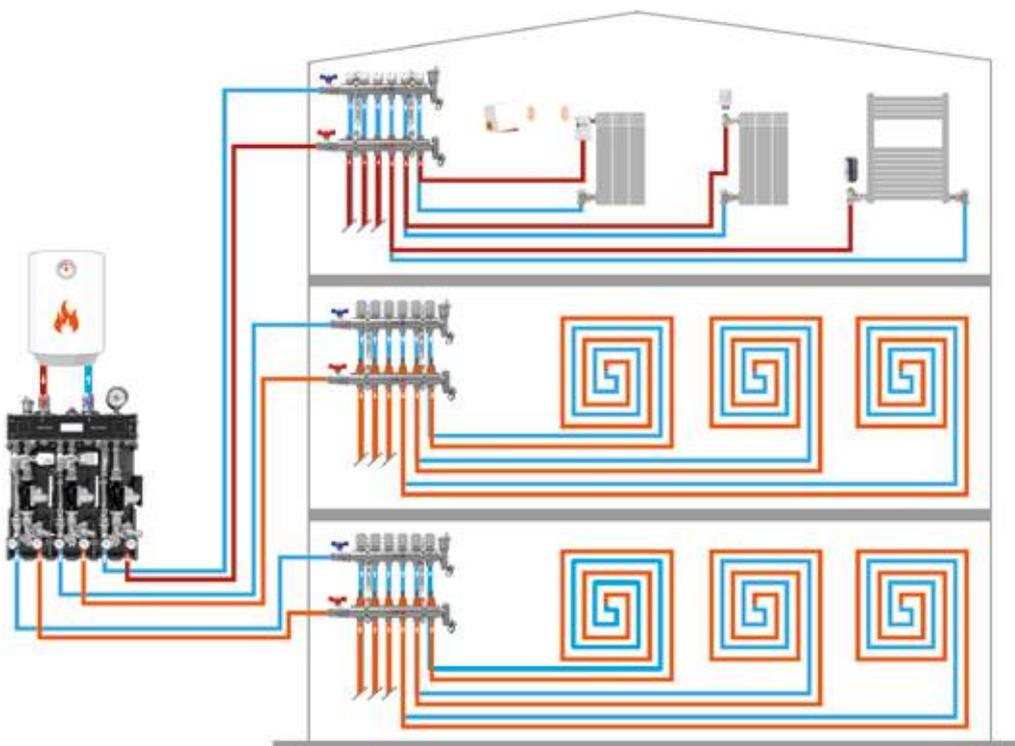
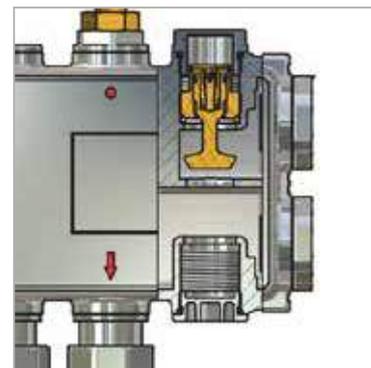
### DIRECT DISTRIBUTION KIT

- Pump with shutoff provision and simplified installation thanks to telescopic connection
- Thermometers, non-return valve

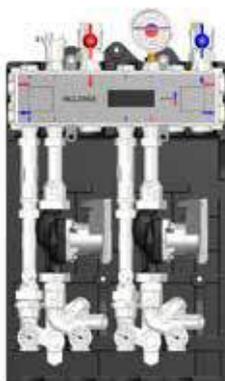


### FOCUS: hydraulic separation

- The manifold incorporates the hydraulic separation, an essential function in systems with multiple pumps that can operate simultaneously.
- The hydraulic separator can also be shut off while the system is running by means of an externally controlled shutter.
- The separator creates a hydraulic short circuit, which makes all circulation pumps installed on the secondary and primary circuits completely independent from one another.



**MUL 2HE**



- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 2 zone di distribuzione, entrambe di distribuzione diretta in alta temperatura. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX distribution module for zone thermal plants. Version with 2 distribution zones manifold/separator, both with direct distribution in high temperature. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 2 zones de distribution, toutes les deux avec distribution directe en haute température. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 2 Verteilungszonen, beide mit direkter Heißwasserverteilung. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 2 zonas de distribución, ambos con distribución directa en alta temperatura. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506290PEC	✓	-	WILO4F	2 High T. modules	1.837,12 €	NI	1
506290PEI	-	✓	WILO4F	2 High T. modules	1.715,99 €	NI	1
506290PEIC	✓	✓	WILO4F	2 High T. modules	1.904,14 €	NI	1



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**MUL 2H**



- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 2 zone di distribuzione, entrambe di distribuzione diretta in alta temperatura. Unità di distribuzione complete di pompa standard a 3 velocità.
- MULTIMIX distribution module for zone thermal plants. Version with 2 distribution zones manifold/separator, both with direct distribution in high temperature. Distribution units complete of standard 3-speed pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 2 zones de distribution, toutes les deux avec distribution directe en haute température. Unités de distribution équipées de pompe standard à 3 vitesses.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 2 Verteilungszonen, beide mit direkter Heißwasserverteilung. Verteileraggregate mit Standardpumpe mit 3 Geschwindigkeiten.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 2 zonas de distribución, ambos con distribución directa en alta temperatura. Unidades de distribución completas de bomba estándar de 3 velocidades.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506290PC	✓	-	WILO3F	2 High T. modules	1.697,84 €	NI	1
506290PI	-	✓	WILO3F	2 High T. modules	1.576,72 €	NI	1
506290PIC	✓	✓	WILO3F	2 High T. modules	1.764,86 €	NI	1



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**MUL 3HE**

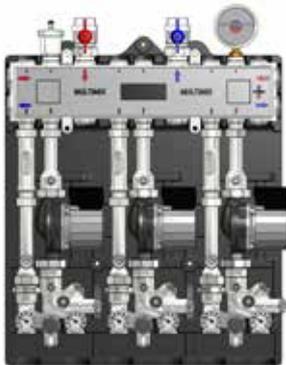

- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, tutte di distribuzione diretta in alta temperatura con distribuzione diretta. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX distribution module for zone thermal plants. Version with 3 distribution zones manifold/separator, all with direct distribution in high temperature. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, toutes avec distribution directe en haute température. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, alle mit direkter Heißwasserverteilung. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, todas con distribución directa en alta temperatura. Unidades de distribución completas de bomba electrónica de velocidad variable.

ErP

Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506291PEC	✓	-	WILO4F	3 High T. modules	2.452,18 €	NI	1
506291PEI	-	✓	WILO4F	3 High T. modules	2.337,61 €	NI	1
506291PEIC	✓	✓	WILO4F	3 High T. modules	2.545,70 €	NI	1



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**MUL 3H**


- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, tutte di distribuzione diretta in alta temperatura. Unità di distribuzione complete di pompa standard a 3 velocità.
- MULTIMIX distribution module for zone thermal plants. Version with 3 distribution zones manifold/separator, all with direct distribution in high temperature. Distribution units complete of standard 3-speed pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, toutes avec distribution directe en haute température. Unités de distribution équipées de pompe standard à 3 vitesses.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, alle mit direkter Heißwasserverteilung. Verteileraggregate mit Standardpumpe mit 3 Geschwindigkeiten.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, todas con distribución directa en alta temperatura. Unidades de distribución completas de bomba estándar de 3 velocidades.

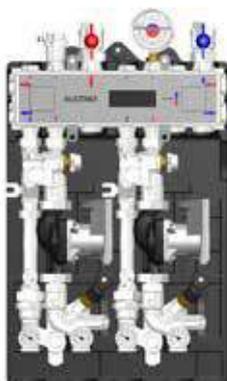
~~ErP~~

Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506291PC	✓	-	WILO3F	3 High T. modules	2.243,26 €	NI	1
506291PI	-	✓	WILO3F	3 High T. modules	2.128,70 €	NI	1
506291PIC	✓	✓	WILO3F	3 High T. modules	2.336,79 €	NI	1



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**MUL 2LE**



- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 2 zone di distribuzione, entrambe di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX distribution module for zone thermal plants. Version with 2 distribution zones manifold/separator, both low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 2 zones de distribution, toutes les deux de basse température avec unité de mélange. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 2 Verteilungszonen, beide für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 2 zonas de distribución, ambos de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506288PEC	✓	-	WILO4F	2 Low T. modules	2.039,85 €	NI	1
506288PEI	-	✓	WILO4F	2 Low T. modules	1.918,72 €	NI	1
506288PEIC	✓	✓	WILO4F	2 Low T. modules	2.106,87 €	NI	1



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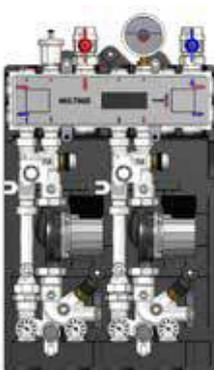


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**MUL 2L**



- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 2 zone di distribuzione, entrambe di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa standard a 3 velocità.
- MULTIMIX distribution module for zone thermal plants. Version with 2 distribution zones manifold/separator, both low temperature with mixing unit. Distribution units complete of standard 3-speed pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 2 zones de distribution, toutes les deux de basse température avec unité de mélange. Unités de distribution équipées de pompe standard à 3 vitesses.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 2 Verteilungszonen, beide für Kaltwasser mit Mischeinheit. Verteileraggregate mit Standardpumpe mit 3 Geschwindigkeiten.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 2 zonas de distribución, ambos de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba estándar de 3 velocidades.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506288PC	✓	-	WILO3F	2 Low T. modules	1.888,03 €	NI	1
506288PI	-	✓	WILO3F	2 Low T. modules	1.766,91 €	NI	1
506288PIC	✓	✓	WILO3F	2 Low T. modules	1.955,05 €	NI	1



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**MUL 3LE**


- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, tutte di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX distribution module for zone thermal plants. Version with 3 distribution zones manifold/separator, all low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, toutes de basse température avec unité de mélange. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, alle für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, todas de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.

ErP

Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506289PEC	✓	-	WILO4F	3 Low T. modules	2.756,27 €	NI	1
506289PEI	-	✓	WILO4F	3 Low T. modules	2.641,71 €	NI	1
506289PEIC	✓	✓	WILO4F	3 Low T. modules	2.849,80 €	NI	1



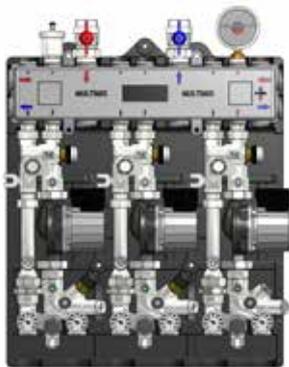
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**MUL 3L**


- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, tutte di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa standard a 3 velocità.
- MULTIMIX distribution module for zone thermal plants. Version with 3 distribution zones manifold/separator, all low temperature with mixing unit. Distribution units complete of standard 3-speed pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, toutes de basse température avec unité de mélange. Unités de distribution équipées de pompe standard à 3 vitesses.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, alle für Kaltwasser mit Mischeinheit. Verteileraggregate mit Standardpumpe mit 3 Geschwindigkeiten.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, todas de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba estándar de 3 velocidades.

ErP

Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506289PC	✓	-	WILO3F	3 Low T. modules	2.528,54 €	NI	1
506289PI	-	✓	WILO3F	3 Low T. modules	2.413,98 €	NI	1
506289PIC	✓	✓	WILO3F	3 Low T. modules	2.622,07 €	NI	1



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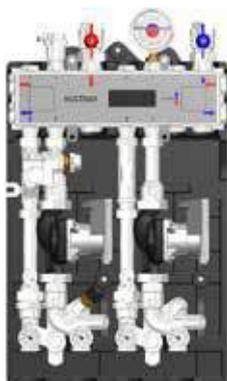


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**MUL 1HE/1LE**



- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 2 zone di distribuzione, una di distribuzione diretta in alta temperatura, una di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX distribution module for zone thermal plants. Version with 2 distribution zones manifold/separator, one of direct distribution in high temperature, one of low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 2 zones de distribution, une de distribution directe en haute température, une de basse température avec unité de mélange. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 2 Verteilungszonen, eine für direkter Heißwasserverteilung, eine für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 2 zonas de distribución, una con distribución directa en alta temperatura, una de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506285PEC	✓	-	WILO4F	1 High T. module + 1 Low T. module	1.938,49 €	NI	1
506285PEI	-	✓	WILO4F	1 High T. module + 1 Low T. module	1.817,36 €	NI	1
506285PEIC	✓	✓	WILO4F	1 High T. module + 1 Low T. module	2.005,50 €	NI	1



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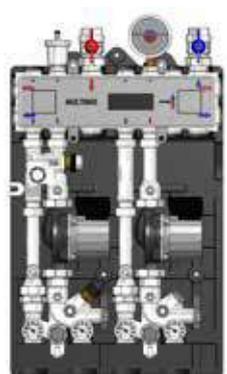


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**MUL 1H/1L**



- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 2 zone di distribuzione, una di distribuzione diretta in alta temperatura, una di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa standard a 3 velocità.
- MULTIMIX distribution module for zone thermal plants. Version with 2 distribution zones manifold/separator, one of direct distribution in high temperature, one of low temperature with mixing unit. Distribution units complete of standard 3-speed pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 2 zones de distribution, une de distribution directe en haute température, une de basse température avec unité de mélange. Unités de distribution équipées de pompe standard à 3 vitesses.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 2 Verteilungszonen, eine mit direkter Heißwasserverteilung, eine für Kaltwasser mit Mischeinheit. Verteileraggregate mit Standardpumpe mit 3 Geschwindigkeiten.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 2 zonas de distribución, una con distribución directa en alta temperatura, una de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba estándar de 3 velocidades.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506285PC	✓	-	WILO3F	1 High T. module + 1 Low T. module	1.792,94 €	NI	1
506285PI	-	✓	WILO3F	1 High T. module + 1 Low T. module	1.671,81 €	NI	1
506285PIC	✓	✓	WILO3F	1 High T. module + 1 Low T. module	1.859,95 €	NI	1



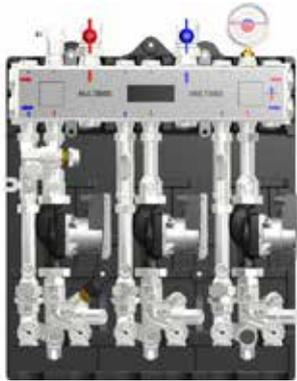
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**MUL 2HE/1LE**


- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, due di distribuzione diretta in alta temperatura, una di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX distribution module for zone thermal plants. Version with 3 zones distribution manifold/separator, two of direct distribution in high temperature, one of low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, deux avec distribution directe en haute température, une de basse température avec unité de mélange. Unités de distribution équipées d'une pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, zwei mit direkter Heißwasserverteilung, eine für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, dos con distribución directa en alta temperatura, una de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506287PEC	✓	-	WILO4F	2 High T. modules + 1 Low T. module	2.553,54 €	NI	1
506287PEI	-	✓	WILO4F	2 High T. modules + 1 Low T. module	2.438,98 €	NI	1
506287PEIC	✓	✓	WILO4F	2 High T. modules + 1 Low T. module	2.647,07 €	NI	1



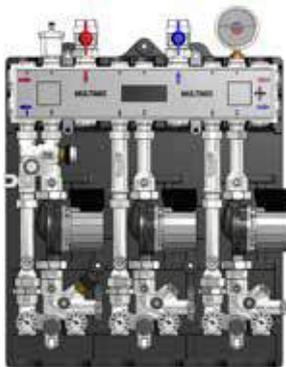
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**MUL 2H/1L**


- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, due di di distribuzione diretta in alta temperatura, una di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa standard a 3 velocità.
- MULTIMIX distribution module for zone thermal plants. Version with 3 zones distribution manifold/separator, two of direct distribution in high temperature, one of low temperature with mixing unit. Distribution units complete of standard 3-speed pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, deux avec distribution directe en haute température, une de basse température avec unité de mélange. Unités de distribution équipées d'une pompe standard à 3 vitesses.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, zwei mit direkter Heißwasserverteilung, eine für Kaltwasser mit Mischeinheit. Verteileraggregate mit Standardpumpe mit 3 Geschwindigkeiten.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, dos con distribución directa en alta temperatura, una de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba estándar de 3 velocidades.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506287PC	✓	-	WILO3F	2 High T. modules + 1 Low T. module	2.338,35 €	NI	1
506287PI	-	✓	WILO3F	2 High T. modules + 1 Low T. module	2.223,79 €	NI	1
506287PIC	✓	✓	WILO3F	2 High T. modules + 1 Low T. module	2.431,88 €	NI	1



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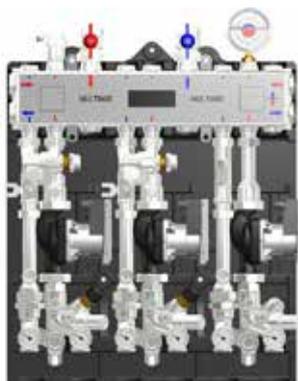


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**MUL 1HE/2LE**



- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, una di distribuzione diretta in alta temperatura, due di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX distribution module for zone thermal plants. Version with 3 zones distribution manifold/separator, one of direct distribution in high temperature, two of low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, une avec distribution directe en haute température, deux de basse température avec unité de mélange. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, eine mit direkter Heißwasserverteilung, zwei für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, una con distribución directa en alta temperatura, dos de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506286PEC	✓	-	WILO4F	1 High T. module + 2 Low T. modules	2.654,91 €	NI	1
506286PEI	-	✓	WILO4F	1 High T. module + 2 Low T. modules	2.540,34 €	NI	1
506286PEIC	✓	✓	WILO4F	1 High T. module + 2 Low T. modules	2.748,43 €	NI	1



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**MUL 1H/2L**



- Modulo di distribuzione MULTIMIX per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, una di distribuzione diretta in alta temperatura, due di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa standard a 3 velocità.
- MULTIMIX distribution module for zone thermal plants. Version with 3 zones distribution manifold/separator, one of direct distribution in high temperature, two of low temperature with mixing unit. Distribution units complete of standard 3-speed pump.
- Module de distribution MULTIMIX pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, une avec distribution directe en haute température, deux de basse température avec unité de mélange. Unités de distribution équipées de pompe standard à 3 vitesses.
- Verteilermodul MULTIMIX für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, eine mit direkter Heißwasserverteilung, zwei für Kaltwasser mit Mischeinheit. Verteileraggregate mit Standardpumpe mit 3 Geschwindigkeiten.
- Módulo de distribución MULTIMIX para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, una con distribución directa en alta temperatura, dos de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba estándar de 3 velocidades.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
506286PC	✓	-	WILO3F	1 High T. module + 2 Low T. modules	2.433,45 €	NI	1
506286PI	-	✓	WILO3F	1 High T. module + 2 Low T. modules	2.318,89 €	NI	1
506286PIC	✓	✓	WILO3F	1 High T. module + 2 Low T. modules	2.526,98 €	NI	1



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**MUL 0033 AC**


- Collettore principale di distribuzione a 3 vie con separatore idraulico intercettabile (a impianto funzionante) per sistema MULTIMIX, completo di valvole a sfera, termomanometro e sfiato aria automatico.
- 3-way main distribution manifold with intercept able (even when the system is functioning) hydraulic separator for MULTIMIX system, complete with ball valves, temperature/pressure gauge and automatic air vent.
- Collecteur principal de distribution à 3 voies avec séparateur hydraulique interceptable (lorsque l'installation fonctionne) pour système MULTIMIX, constitué de vannes à bille, thermomanomètre et purgeur d'air automatique.
- 3-Wege Hauptmodulverteiler mit hydraulischen Weichen (in Betrieb stehender Anlage) für das MULTIMIX System, mit Kugelventilen, Thermomanometer und automatischem Schnellentlüfter.
- Colector principal de distribución a 3 vías con separador hidráulico intercettable (con el sistema en funcionamiento) para el sistema de MULTIMIX, con válvulas de bola, termomanómetro y purga automática.

Code	Included Accessories	Ways	Size	Price	Class	Packaging
506283	AC 655 NST + MA 20 + AC 620	3	G 1" F x G 3/4" F	644,80 €	NI	1

**MUL 0032**


- Collettore principale di distribuzione a 2 vie con separatore idraulico intercettabile per sistema MULTIMIX completo di nipples 1" M.
- 2-way main distribution manifold with interceptable hydraulic separator for MULTIMIX system, 1" M nipples included.
- Collecteur principal de distribution à 2 voies avec séparateur hydraulique interceptable pour système MULTIMIX complet d'embouts 1" M.
- 2-Wege Hauptmodulverteiler mit hydraulischen Weichen für das MULTIMIX System, mit Anschlußnippeln 1" AG.
- Colector principal de distribución a 2 vías con separador hidráulico intercettable para sistema MULTIMIX, completo de nipples 1" M.

Code	Included Accessories	Ways	Size	Price	Class	Packaging
506284	AC 606 N	2	G 1" F x G 3/4" F	488,41 €	NI	1

**MUL 0032 AC**


- Collettore principale di distribuzione a 2 vie con separatore idraulico intercettabile (a impianto funzionante) per sistema MULTIMIX, completo di valvole a sfera, termomanometro e sfiato aria automatico.
- 2-way main distribution manifold with interceptable (even when the system is functioning) hydraulic separator for MULTIMIX system, complete with ball valves, temperature/pressure gauge and automatic air vent.
- Collecteur principal de distribution à 2 voies avec séparateur hydraulique interceptable (lorsque l'installation fonctionne) pour système MULTIMIX, constitué de vannes à bille, thermomanomètre et purgeur d'air automatique.
- 2-Wege Hauptmodulverteiler mit hydraulischen Weichen (in Betrieb stehender Anlage) für das MULTIMIX System, mit Kugelventilen, Thermomanometer und automatischem Schnellentlüfter.
- Colector principal de distribución a 2 vías con separador hidráulico intercettable (con el sistema en funcionamiento) para el sistema de MULTIMIX, con válvulas de bola, termomanómetro y purga automática.

Code	Included Accessories	Ways	Size	Price	Class	Packaging
506282	AC 655 NST + MA 20 + AC 620	2	G 1" F x G 3/4" F	556,66 €	NI	1

**MUL 0033**


- Collettore principale di distribuzione a 3 vie con separatore idraulico intercettabile per sistema MULTIMIX completo di nipples 1" M.
- 3-way main distribution manifold with interceptable hydraulic separator for MULTIMIX system, 1" M nipples included.
- Collecteur principal de distribution à 3 voies avec séparateur hydraulique interceptable pour système MULTIMIX complet d'embouts 1" M.
- 3-Wege Hauptmodulverteiler mit hydraulischen Weichen für das MULTIMIX System, mit Anschlußnippeln 1" AG.
- Colector principal de distribución a 3 vías con separador hidráulico intercettable para sistema MULTIMIX, completo de nipples 1" M.

Code	Included Accessories	Ways	Size	Price	Class	Packaging
506285	AC 606 N	3	G 1" F x G 3/4" F	576,55 €	NI	1

**AC 606**


- Nipplo girevole maschio - maschio.
- Swivelling male - male nipple.
- Nipple pivotant mâle - mâle.
- AG - AG drehbarer Nippel.
- Entrerosca giratoria macho - macho.

Code	Size	Color	Price	Class	Packaging
500070	1" M O-ring x 1" M O-ring	■	8,36 €	NJ	20 / 80

AC 655 NST



- Coppia di valvole a sfera diritte maschio-femmina complete di bocchettone a tenuta morbida, manovra a farfalla.
- Pair of male-female straight ball valves with soft-seal fitting, butterfly operation.
- Set de vannes à bille droites mâle-femelle avec goulotte à étanchéité souple, manoeuvre à papillon.
- Paar Durchgangs-Kugelventil AG-IG mit Selbstdichtendsstutzen und Flügelgriff.
- Conjunto de válvulas de bola rectas macho-hembra completas de manguito de unión con junta blanda, vuelta a mariposa.

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
506406	✓	1"	■ / ■	44,58 €	NO	2 / 16

AC 620



- Valvola di sfianto aria automatica.
- Automatic air valve.
- Purgeur d'air automatique.
- Automatisches Entlüftungsventil.
- Válvula purgadora automática.

Code	Size	Color	Price	Class	Packaging
501323	3/8"	■	7,80 €	NJ	15 / 120
501325	1/2"	■	7,62 €	NJ	15 / 120

MA 20 R



- Termomanometro con attacco radiale.
- Temperature-pressure gauge with radial coupling.
- Thermomanomètre avec embout radiale.
- Thermomanometer mit radial Anschluss.
- Termomanómetro con conexión radial.

Code	Size	Range	Price	Class	Packaging
509141R	1/2" M	0-120 °C - 0-6 bar	27,93 €	NL	30

MUL 10 E



- Kit di mandata diretta in alta temperatura con/senza pompa elettronica a velocità variabile per sistema MULTIMIX.
- High temperature direct flow kit with/without variable speed electronic pump for MULTIMIX system.
- Kit d'envoi direct en haute température avec/sans pompe électronique à vitesse variable pour le système MULTIMIX.
- Direktversorgungs-Heißwassersatz mit/ohne elektronischer Pumpe mit variabler Geschwindigkeit für das MULTIMIX System.
- Kit de envío directo de alta temperatura con/sin bomba electrónica de velocidad variable para sistema MULTIMIX.

Code	Pump	Size	Insulation	Price	Class	Packaging
506280NB		G 3/4" M	-	259,68 €	NI	1
506280PE	WILO4F	G 3/4" M	-	506,99 €	NI	1
506280PEI	WILO4F	G 3/4" M	✓	552,64 €	NI	1

MUL 11



- Kit di mandata diretta in alta temperatura con/senza pompa standard a 3 velocità completo di bypass per sistema MULTIMIX.
- High temperature direct flow kit with/without standard 3-speed pump complete with bypass for MULTIMIX system.
- Kit d'envoi direct en haute température avec/sans pompe standard à 3 vitesses complet de bypass pour le système MULTIMIX.
- Direktversorgungs-Heißwassersatz mit/ohne Standardpumpe mit 3 Geschwindigkeiten mit Bypass für das MULTIMIX System.
- Kit de envío directo de alta temperatura con/sin bomba estándar de 3 velocidades con bypass para sistema MULTIMIX.

Code	Bypass	Pump	Size	Price	Class	Packaging
506280	✓		G 3/4" M	265,95 €	NI	1
506280P	✓	WILO3F	G 3/4" M	437,33 €	NI	1

**MUL 20 E**


- **Kit di miscelazione in bassa temperatura con/senza pompa elettronica a velocità variabile per sistema MULTIMIX.**
- *Low temperature mixing kit with/without variable speed electronic pump for MULTIMIX system.*
- **Kit de mélange en basse température complet de pompe électronique à vitesse variable pour système MULTIMIX.**
- *Fußbodenheizungs-Mischersatz mit/ohne elektronischer Pumpe mit variabler Geschwindigkeit für das MULTIMIX System.*
- **Kit de mezcla de baja temperatura con/sin bomba electrónica de velocidad variable para sistema MULTIMIX.**

Code	Pump	Size	Insulation	Price	Class	Packaging
506281NB		G 3/4" M	-	354,78 €	NI	1
506281PE	WILO4F	G 3/4" M	-	563,83 €	NI	1
506281PEI	WILO4F	G 3/4" M	✓	683,38 €	NI	1



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**MUL 20**


- **Kit di miscelazione in bassa temperatura con/senza pompa standard a 3 velocità completo di bypass per sistema MULTIMIX.**
- *Low temperature mixing kit with/without standard 3-speed pump complete with bypass for MULTIMIX system.*
- **Kit de mélange en basse température avec/sans pompe standard à 3 vitesses complet de bypass pour système MULTIMIX.**
- *Fußbodenheizungs-Mischersatz mit/ohne Standardpumpe mit 3 Geschwindigkeiten mit Bypass für das MULTIMIX System.*
- **Kit de mezcla de baja temperatura con/sin bomba estándar de 3 velocidades con bypass para sistema MULTIMIX.**

Code	Bypass	Pump	Size	Insulation	Price	Class	Packaging
506281	✓		G 3/4" M	-	361,05 €	NI	1
506281P	✓	WILO3F	G 3/4" M	-	532,43 €	NI	1
506281PI	✓	WILO3F	G 3/4" M	✓	589,00 €	NI	1



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**WILO4F**


- **Circolatore elettronico a velocità variabile (Conforme alla direttiva europea 2009/125/CE - ErP ,Energy related Products').**
- *Variable speed electronic circulator (In accordance with European Directive 2009/125/CE - ErP "Energy related Products").*
- **Circulateur électronique à vitesse variable (Conforme à la Directive Européenne 2009/125/CE - ErP "Energy related Products").**
- *Elektronische Umwälzpumpe mit variabler Geschwindigkeit (Entspricht der Europäischen Richtlinie 2009/125/CE - ErP "Energy related Produkts").*
- **Circulador electrónico de velocidad variable (Conforme a la directiva europea 2009/125/CE - ErP ,Energy related Products').**

Code	Size	Head loss	Price	Class	Packaging
WILO4F	1"1/2 - 130 mm	6 m	236,64 €	HK	3

**WILO3F**


- **Circolatore standard a 3 velocità.**
- *3-speed standard circulator.*
- **Circulateur standard à 3 vitesses.**
- *Umwälzpumpe mit 3 Geschwindigkeitsstufen.*
- **Circulador estándar de 3 velocidades.**

Code	Size	Head loss	Price	Class	Packaging
WILO3F	1"1/2 - 130 mm	6 m	164,00 €	HK	5

# MULTIMIX•C

The MULTIMIX C system enables the transfer of fluids at different temperatures to each thermal zone via a distribution and boosting kit, made independent by the pressure equaliser incorporated in the main manifold. The extraordinary compact size facilitates installation below the boiler and in confined spaces.

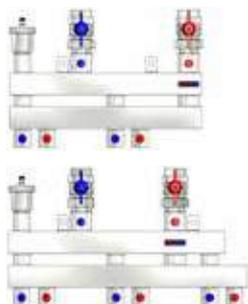
MULTIMIX C is made up of the manifold/separator and direct kits, or versions with mixer, which can be configured and combined to meet specific requirements. Pre-assembled configurations are also available with insulation casing in polypropylene and/or metal recess cabinet.

Max. primary flow rate: 3000 l/h

Max. flow rate per kit: 1700 l/h

## PLUS

- **Compact and flexible (2 or 3 zones)**
- **Integrated hydraulic separator in main manifold**
- **Pre-assembled configurations available**
- **Suitable for heating and cooling**



### MANIFOLD/SEPARATOR

- *3 functions:*
  - Delivery manifold
  - Return manifold
  - Hydraulic separator (with shutoff provision before installation)
- Two or three zones



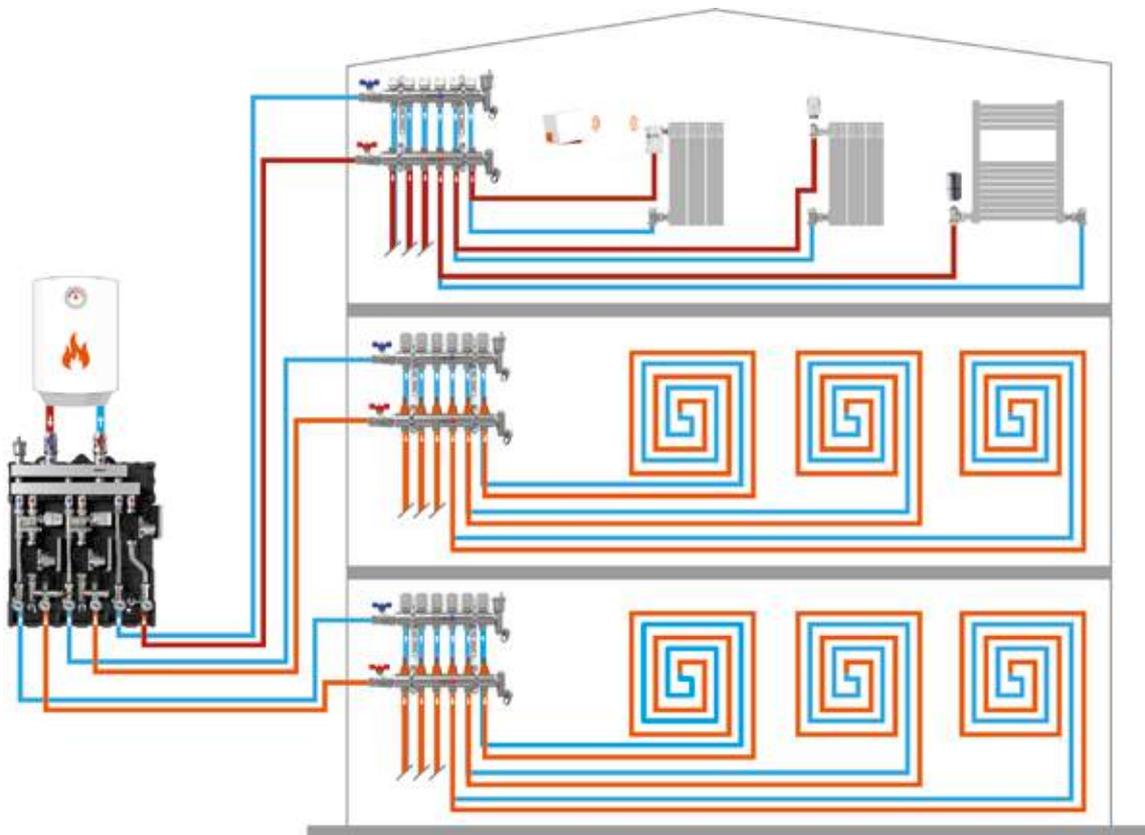
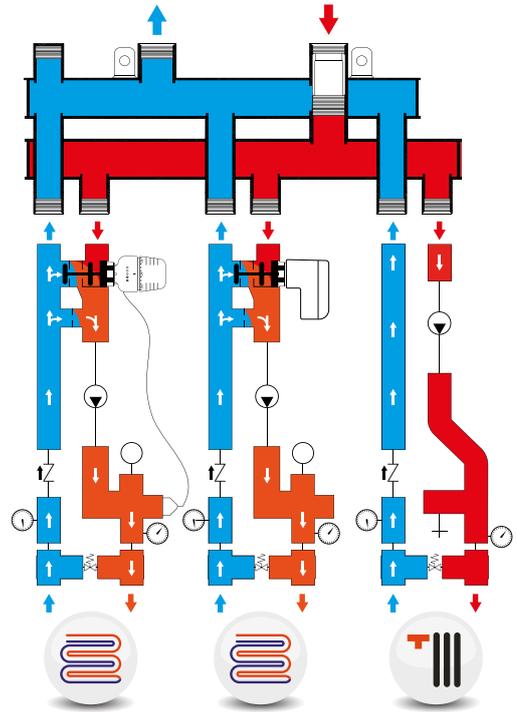
### DISTRIBUTION AND MIXING KIT

- 3-way piston mixing valve and secondary bypass
- Option of fixed point or climate control
- Safety thermostat, thermometers, non-return valve
- Pump with shutoff provision and simplified installation thanks to telescopic connection

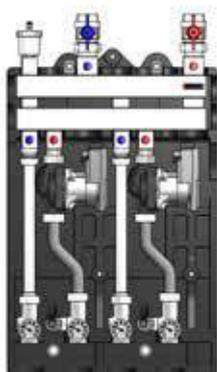


### DIRECT DISTRIBUTION KIT

- Thermometers, non-return valve
- Pump with shutoff provision and simplified installation thanks to telescopic connection



**MUL-C 2HE**



- Modulo di distribuzione MULTIMIX-C per impianti termici a zone. Versione con collettore/separatore a 2 zone di distribuzione, entrambe di distribuzione diretta in alta temperatura. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX-C distribution module for zone thermal plants. Version with 2 distribution zones manifold/separator, both with direct distribution in high temperature. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX-C pour installations thermiques à zones. Version avec collecteur/séparateur à 2 zones de distribution, toutes les deux avec distribution directe en haute température. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX-C für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 2 Verteilungszonen, beide mit direkter Heißwasserverteilung. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit
- Módulo de distribución MULTIMIX-C para centrales térmicas de zonas. Versión con colector/separador de 2 zonas de distribución, ambos con distribución directa en alta temperatura. Unidades de distribución completas de bomba electrónica de velocidad variable.

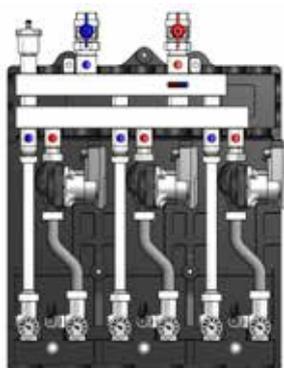


Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
508139PEC	✓	-	WILO4F-110	2 High T. modules	1.312,28 €	NI	1
508139PEI	-	✓	WILO4F-110	2 High T. modules	1.171,20 €	NI	1
508139PEIC	✓	✓	WILO4F-110	2 High T. modules	1.379,30 €	NI	1



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**MUL-C 3HE**



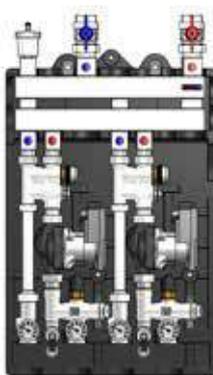
- Modulo di distribuzione MULTIMIX-C per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, tutte di distribuzione diretta in alta temperatura con distribuzione diretta. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX-C distribution module for zone thermal plants. Version with 3 distribution zones manifold/separator, all with direct distribution in high temperature. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX-C pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, toutes avec distribution directe en haute température. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX-C für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, alle mit direkter Heißwasserverteilung. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX-C para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, todas con distribución directa en alta temperatura. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
508140PEC	✓	-	WILO4F-110	3 High T. modules	1.711,09 €	NI	1
508140PEI	-	✓	WILO4F-110	3 High T. modules	1.596,53 €	NI	1
508140PEIC	✓	✓	WILO4F-110	3 High T. modules	1.804,62 €	NI	1



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**MUL-C 2LE**


- Modulo di distribuzione MULTIMIX-C per impianti termici a zone. Versione con collettore/separatore a 2 zone di distribuzione, entrambe di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX-C distribution module for zone thermal plants. Version with 2 distribution zones manifold/separator, both low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX-C pour installations thermiques à zones. Version avec collecteur/séparateur à 2 zones de distribution, toutes les deux de basse température avec unité de mélange. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX-C für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 2 Verteilungszonen, beide für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX-C para centrales térmicas de zonas. Versión con colector/separador de 2 zonas de distribución, ambos de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
508137PEC	✓	-	WILO4F-110	2 Low T. modules	1.615,58 €	NI	1
508137PEI	-	✓	WILO4F-110	2 Low T. modules	1.474,51 €	NI	1
508137PEIC	✓	✓	WILO4F-110	2 Low T. modules	1.682,60 €	NI	1



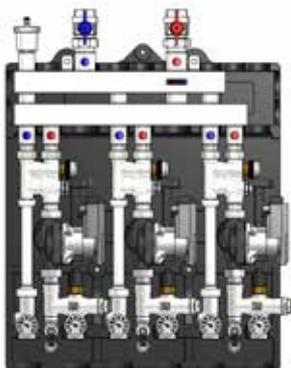
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**MUL-C 3LE**


- Modulo di distribuzione MULTIMIX-C per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, tutte di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX-C distribution module for zone thermal plants. Version with 3 distribution zones manifold/separator, all low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX-C pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, toutes de basse température avec unité de mélange. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX-C für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, alle für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX-C para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, todas de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
508138PEC	✓	-	WILO4F-110	3 Low T. modules	2.166,04 €	NI	1
508138PEI	-	✓	WILO4F-110	3 Low T. modules	2.051,48 €	NI	1
508138PEIC	✓	✓	WILO4F-110	3 Low T. modules	2.259,57 €	NI	1



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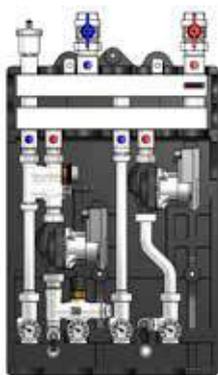


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**MUL-C 1HE/1LE**



- Modulo di distribuzione MULTIMIX-C per impianti termici a zone. Versione con collettore/separatore a 2 zone di distribuzione, una di distribuzione diretta in alta temperatura, una di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX-C distribution module for zone thermal plants. Version with 2 distribution zones manifold/separator, one of direct distribution in high temperature, one of low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX-C pour installations thermiques à zones. Version avec collecteur/séparateur à 2 zones de distribution, une de distribution directe en haute température, une de basse température avec unité de mélange. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX-C für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 2 Verteilungszonen, eine für direkte Heißwasserverteilung, eine für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX-C para centrales térmicas de zonas. Versión con colector/separador de 2 zonas de distribución, una con distribución directa en alta temperatura, una de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
508134PEC	✓	-	WILO4F-110	1 High T. module + 1 Low T. module	1.463,93 €	NI	1
508134PEI	-	✓	WILO4F-110	1 High T. module + 1 Low T. module	1.322,86 €	NI	1
508134PEIC	✓	✓	WILO4F-110	1 High T. module + 1 Low T. module	1.530,95 €	NI	1



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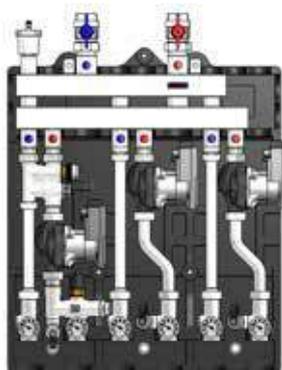


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**MUL-C 2HE/1LE**



- Modulo di distribuzione MULTIMIX-C per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, due di distribuzione diretta in alta temperatura, una di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX-C distribution module for zone thermal plants. Version with 3 zones distribution manifold/separator, two of direct distribution in high temperature, one of low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX-C pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, deux avec distribution directe en haute température, une de basse température avec unité de mélange. Unités de distribution équipées d'une pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX-C für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, zwei für direkte Heißwasserverteilung, eine für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX-C para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, dos con distribución directa en alta temperatura, una de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.



Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
508136PEC	✓	-	WILO4F-110	2 High T. modules + 1 Low T. module	1.862,74 €	NI	1
508136PEI	-	✓	WILO4F-110	2 High T. modules + 1 Low T. module	1.748,18 €	NI	1
508136PEIC	✓	✓	WILO4F-110	2 High T. modules + 1 Low T. module	1.956,27 €	NI	1



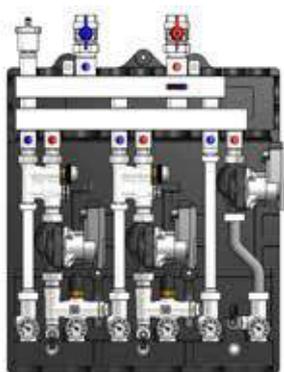
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**MUL-C 1HE/2LE**


- Modulo di distribuzione MULTIMIX-C per impianti termici a zone. Versione con collettore/separatore a 3 zone di distribuzione, una di distribuzione diretta in alta temperatura, due di bassa temperatura con unità di miscelazione. Unità di distribuzione complete di pompa elettronica a velocità variabile.
- MULTIMIX-C distribution module for zone thermal plants. Version with 3 zones distribution manifold/separator, one of direct distribution in high temperature, two of low temperature with mixing unit. Distribution units complete of variable speed electronic pump.
- Module de distribution MULTIMIX-C pour installations thermiques à zones. Version avec collecteur/séparateur à 3 zones de distribution, une avec distribution directe en haute température, deux de basse température avec unité de mélange. Unités de distribution équipées de pompe électronique à vitesse variable.
- Verteilermodul MULTIMIX-C für Zonen-Heizungsanlagen. Ausführung mit Verteiler/Abscheider mit 3 Verteilungszonen, eine mit direkter Heißwasserverteilung, zwei für Kaltwasser mit Mischeinheit. Verteileraggregate mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo de distribución MULTIMIX-C para centrales térmicas de zonas. Versión con colector/separador de 3 zonas de distribución, una con distribución directa en alta temperatura, dos de baja temperatura con unidad de mezcla. Unidades de distribución completas de bomba electrónica de velocidad variable.

ErP

Code	Cabinet	Insulation	Pump	Size	Price	Class	Packaging
508135PEC	✓	-	WILO4F-110	1 High T. module + 2 Low T. modules	2.014,39 €	NI	1
508135PEI	-	✓	WILO4F-110	1 High T. module + 2 Low T. modules	1.899,83 €	NI	1
508135PEIC	✓	✓	WILO4F-110	1 High T. module + 2 Low T. modules	2.107,92 €	NI	1



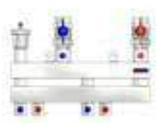
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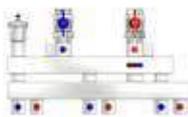


• 200090 &gt;&gt; p. 238,375,461,585


**MUL-C 0032 AC**


- Collettore principale di distribuzione a 2 vie con separatore idraulico intercettabile per sistema MULTIMIX-C, completo di valvole a sfera e sfiato aria automatico.
- 2-way main distribution manifold with interceptable hydraulic separator for MULTIMIX-C system, complete with ball valves and automatic air vent.
- Collecteur principal de distribution à 2 voies avec séparateur hydraulique interceptable pour système MULTIMIX-C, constitué de vannes à bille et purgeur d'air automatique.
- 2-Wege Hauptmodulverteiler mit hydraulischen Weichen für das MULTIMIX-C System, mit Kugelventilen und automatischem Schnellentlüfter
- Colector principal de distribución a 2 vías con separador hidráulico para el sistema de MULTIMIX-C, con válvulas de bola y purga automática.

Code	Included Accessories	Ways	Size	Price	Class	Packaging
508153	AC 655 NST + AC 620	2	G 1" F x G 3/4" F	310,62 €	NI	1

**MUL-C 0033 AC**


- Collettore principale di distribuzione a 3 vie con separatore idraulico intercettabile per sistema MULTIMIX-C, completo di valvole a sfera e sfiato aria automatico.
- 3-way main distribution manifold with interceptable hydraulic separator for MULTIMIX-C system, complete with ball valves and automatic air vent.
- Collecteur principal de distribution à 3 voies avec séparateur hydraulique interceptable pour système MULTIMIX-C, constitué de vannes à bille et purgeur d'air automatique.
- 3-Wege Hauptmodulverteiler mit hydraulischen Weichen für das MULTIMIX-C System, mit Kugelventilen und automatischem Schnellentlüfter
- Colector principal de distribución a 3 vías con separador hidráulico para el sistema de MULTIMIX-C, con válvulas de bola y purga automática.

Code	Included Accessories	Ways	Size	Price	Class	Packaging
508154	AC 655 NST + AC 620	3	G 1" F x G 3/4" F	351,83 €	NI	1

**MUL-C 10 E**



- **Kit di mandata diretta in alta temperatura con/senza pompa elettronica a velocità variabile per sistema MULTIMIX-C.**
- *High temperature direct flow kit with/without variable speed electronic pump for MULTIMIX-C system.*
- **Kit d'envoi direct en haute température avec/sans pompe électronique à vitesse variable pour le système MULTIMIX-C.**
- *Direktversorgungs-Heißwassersatz mit/ohne elektronischer Pumpe mit variabler Geschwindigkeit für das MULTIMIX-C System.*
- **Kit de envío directo de alta temperatura con/sin bomba electrónica de velocidad variable para sistema MULTIMIX-C.**

Code	Pump	Size	Insulation	Price	Class	Packaging
508155		G 3/4" M	-	110,31 €	NI	1
508155I		G 3/4" M	✓	166,88 €	NI	1
508155PE	WILO4F-110	G 3/4" M	-	381,47 €	NI	1
508155PEI	WILO4F-110	G 3/4" M	✓	438,05 €	NI	1

**MUL-C 20 E**



- **Kit di miscelazione in bassa temperatura con/senza pompa elettronica a velocità variabile per sistema MULTIMIX-C.**
- *Low temperature mixing kit with/without variable speed electronic pump for MULTIMIX-C system.*
- **Kit de mélange en basse température complet de pompe électronique à vitesse variable pour système MULTIMIX-C.**
- *Fußbodenheizungs-Mischersatz mit/ohne elektronischer Pumpe mit variabler Geschwindigkeit für das MULTIMIX-C System.*
- **Kit de mezcla de baja temperatura con/sin bomba electrónica de velocidad variable para sistema MULTIMIX-C.**

Code	Pump	Size	Insulation	Price	Class	Packaging
508156		G 3/4" M	-	261,96 €	NI	1
508156I		G 3/4" M	✓	318,53 €	NI	1
508156PE	WILO4F-110	G 3/4" M	-	533,12 €	NI	1
508156PEI	WILO4F-110	G 3/4" M	✓	589,70 €	NI	1



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**ACM 667**



- **Valvola di bypass per MULTIMIX-C.**
- *Bypass valve for MULTIMIX-C.*
- **Vanne de bypass pour MULTIMIX-C.**
- *Bypass-Ventil für MULTIMIX-C.*
- **Válvula de bypass para MULTIMIX-C.**

Code	Size	Range	Price	Class	Packaging
508141	3/4"	0,2-0,6 bar	72,07 €	NI	1

**WILO4F**



- **Circolatore elettronico a velocità variabile (Conforme alla direttiva europea 2009/125/CE - ErP „Energy related Products“).**
- *Variable speed electronic circulator (In accordance with European Directive 2009/125/CE – ErP “Energy related Products“).*
- **Circulateur électronique à vitesse variable (Conforme à la Directive Européenne 2009/125/CE – ErP “Energy related Products“).**
- *Elektronische Umwälzpumpe mit variabler Geschwindigkeit (Entspricht der Europäischen Richtlinie 2009/125/CE – ErP “Energy related Produkts“).*
- **Circulador electrónico de velocidad variable (Conforme a la directiva europea 2009/125/CE - ErP „Energy related Products“).**

Code	Size	Head loss	Price	Class	Packaging
WILO4F-110	1" - 110 mm	6 m	259,49 €	HK	1 / 4

# ACCESSORIES FOR MULTIMIX - MULTIMIX-C

## T 5011 U



- Testa termostatica con comando incorporato e sensore remoto ad immersione.
- Thermostatic head with incorporated control and immersion remote sensor.
- Tête thermostatique avec commande incorporée et capteur à distance à immersion.
- Thermostat-Kopf mit eingebauter Steuerung und Eintauch-Fernfühler.
- Cabeza termostático con mando incorporado y sensor remoto de inmersión.

Code	Size	Range	Length	Price	Class	Packaging
501175U	M30 x 1,5 - 1/2"	30-55 °C	1 m	42,19 €	AA	5 / 40

## RV 01



- Servomotore assiale. Compatibile con tutti i vitoni termostatici IVAR.
- Axial motor. Suitable for all IVAR thermostatic inserts.
- Servomoteur axial. Adapté pour tous les inserts thermostatiques IVAR.
- Axial-Stellantrieb. Geeignet für alle Thermostat-Regulievorrichtungen IVAR.
- Servomotor axial. Adecuado para todos los tornillos termostáticos IVAR.

Code	Size	Price	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	109,71 €	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC)	127,27 €	PC	1 / 100

## AC 672



- Chiave per montaggio/smontaggio della pompa.
- Wrench for pump installation/removal.
- Clé pour montage/démontage de la pompe.
- Schlüssel für Montage und Demontage der Pumpe.
- Llave para montaje/desmontaje de la bomba.

Code	Size	Price	Class	Packaging
200147	52 mm	44,34 €	NI	1

## AMUL 01



- Coibentazione per sistema MULTIMIX / MULTIMIX-C.
- Insulation for MULTIMIX / MULTIMIX-C system.
- Isolation pour système MULTIMIX / MULTIMIX-C.
- Isolierung für das MULTIMIX / MULTIMIX-C System.
- Aislamiento para el sistema MULTIMIX / MULTIMIX-C.

Code	Size	Height	Width	Depth	Price	Class	Packaging
506360	1 module	460 mm	280 mm	150 mm	54,14 €	NI	1
506361	2 modules	610 mm	390 mm	150 mm	64,13 €	NI	1
506362	3 modules	575 mm	550 mm	150 mm	79,41 €	NI	1

■ RA 761



- Raccordo a stringere diritto maschio per tubo multistrato.
- Compression straight male fitting for multilayer pipe.
- Raccord à serrage droit mâle pour tube multicouche.
- Durchgang AG Pressanschluss für Verbundrohr.
- Racor de compresión recto macho para tubo multicapa.

Code	Size	Color	Price	Class	Packaging
500043N	3/4" M x 20/2	■	5,97 €	LA	25 / 200
501361N	3/4" M x 25/2,5	■	9,11 €	LA	25 / 200
500122N	3/4" M x 25/3	■	9,11 €	LA	25 / 100
501084N	3/4" M x 26/3	■	9,11 €	LA	25 / 100
501497N	3/4" M x 32/3	■	14,42 €	LA	15 / 120

■ RP 731

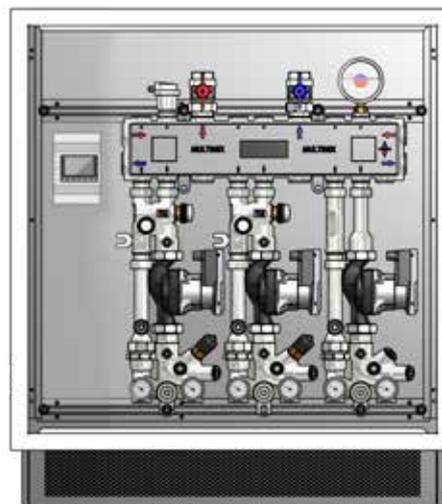
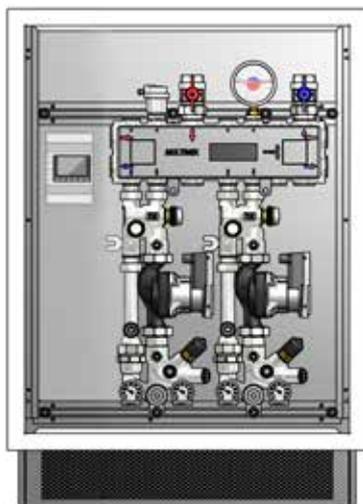


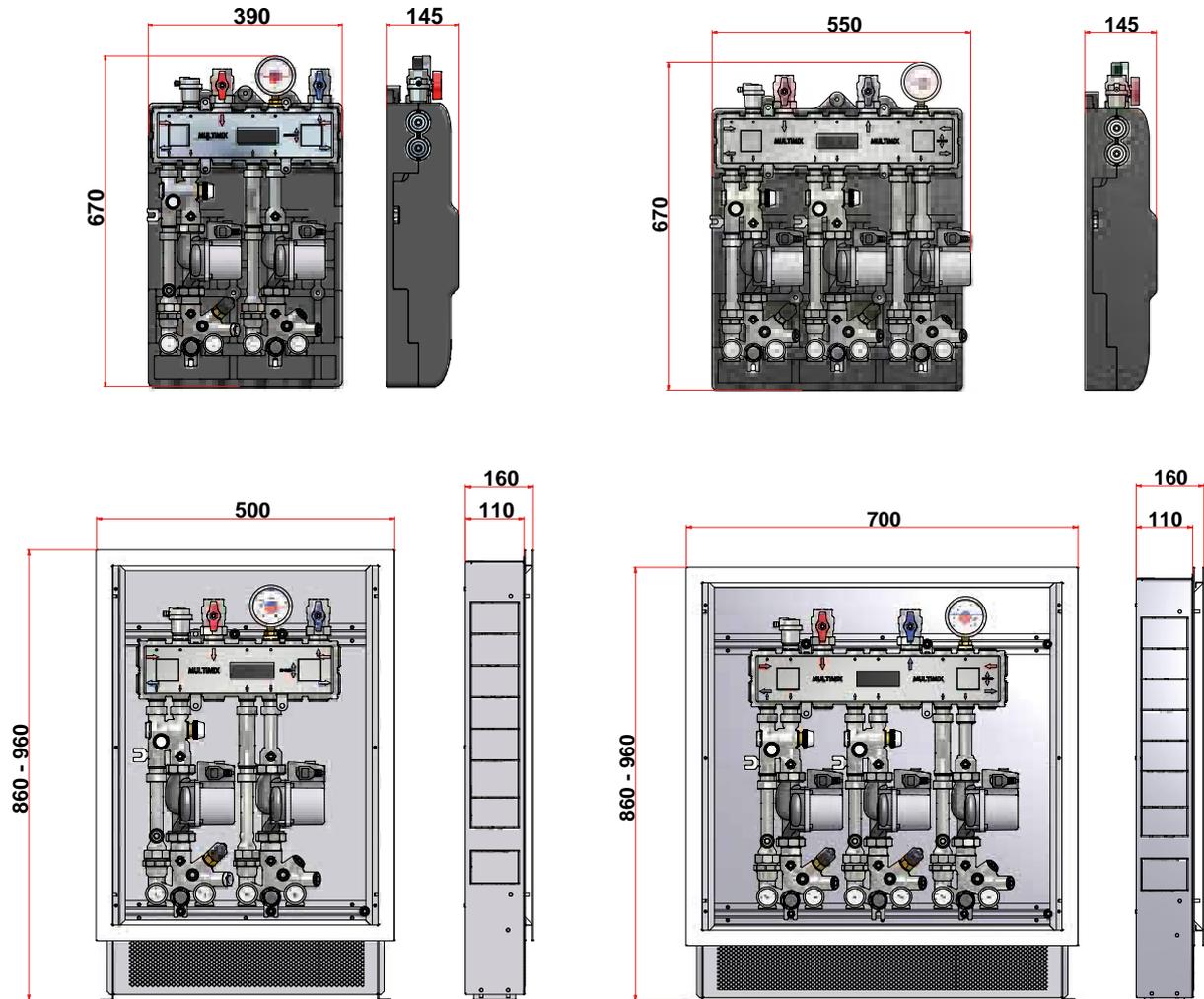
- Raccordo a stringere diritto maschio per tubo in polietilene.
- Compression straight male fitting for polyethylene pipe.
- Raccord à serrage droit mâle pour tube en polyéthylène.
- Durchgang AG Pressanschluss für Polyäthylenrohr.
- Racor de compresión recto macho para tubo de polietileno.

Code	Size	Color	Price	Class	Packaging
506209N	3/4" M x 20/2,3	■	5,76 €	LA	25 / 200
501051N	3/4" M x 20/2,8	■	5,76 €	LA	25 / 200
501054N	3/4" M x 25/2,3	■	9,16 €	LA	25 / 100
550042N	3/4" M x 25/2,5	■	9,16 €	LA	25 / 200
501052N	3/4" M x 25/3,5	■	9,16 €	LA	25 / 100
501498N	3/4" M x 32/4,4	■	13,91 €	LA	15 / 120

**Dimensions of MULTIMIX / MULTIMIX-C 2-way and 3-way modules with CLIMA-HUB control unit installed in the cabinet**

Distribution units	Suitable cabinet	Height	Width	Depth
2	200090	860-960 mm	700 mm	110-160 mm
3	200190	860-960 mm	900 mm	110-160 mm



**Dimensions (mm) of MULTIMIX / MULTIMIX-C 2-way and 3-way modules with / without cabinet**

**AC 830**


- Cassetta murale ad incasso per collettori e moduli MC / IVAR-SAT / MULTIMIX / MULTIMIX-C con altezza e profondità variabili.
- Wall fitted box for manifolds and MC / IVAR-SAT / MULTIMIX / MULTIMIX-C modules with variable height and depth.
- Casette murale encastrable pour collecteurs et modules MC / IVAR-SAT / MULTIMIX / MULTIMIX-C avec hauteur et profondeur variables.
- Einbauwandkasten für Verteiler und Module MC / IVAR-SAT / MULTIMIX / MULTIMIX-C mit variabler Höhe und Tiefe.
- Caja mural de empotrar para colectores y modulos MC / IVAR-SAT / MULTIMIX / MULTIMIX-C de altura y profundidad variables.

Code	Height	Width	Depth	Module	Price	Class	Packaging
200089	860-960 mm	500 mm	110-160 mm	2-way Multimix/Multimix-C	181,85 €	NZ	1
200090	860-960 mm	700 mm	110-160 mm	MC 1/11/12/13/14 - MC4 series (1") - IVAR-SAT H/L/LE - 3-way Multimix/Multimix-C	201,12 €	NZ	1
200190	860-960 mm	900 mm	110-160 mm	MC2 series - IVAR-SAT HL/HLE	265,73 €	NZ	1

# VARIMIX

VARIMIX allows a revised design of central heating systems, with a new concept of space and functionality. Thanks to system modularity, it is now possible to construct a dedicated distribution system for a single central heating system, guaranteeing a neat and streamlined design to facilitate the work of the installer.

VARIMIX is essentially made up of the following basic kits to be assembled and configured according to various system demands:

- hydraulic separator (pressure balancer)
- modular manifold
- direct distribution kit
- mixing and distribution kit

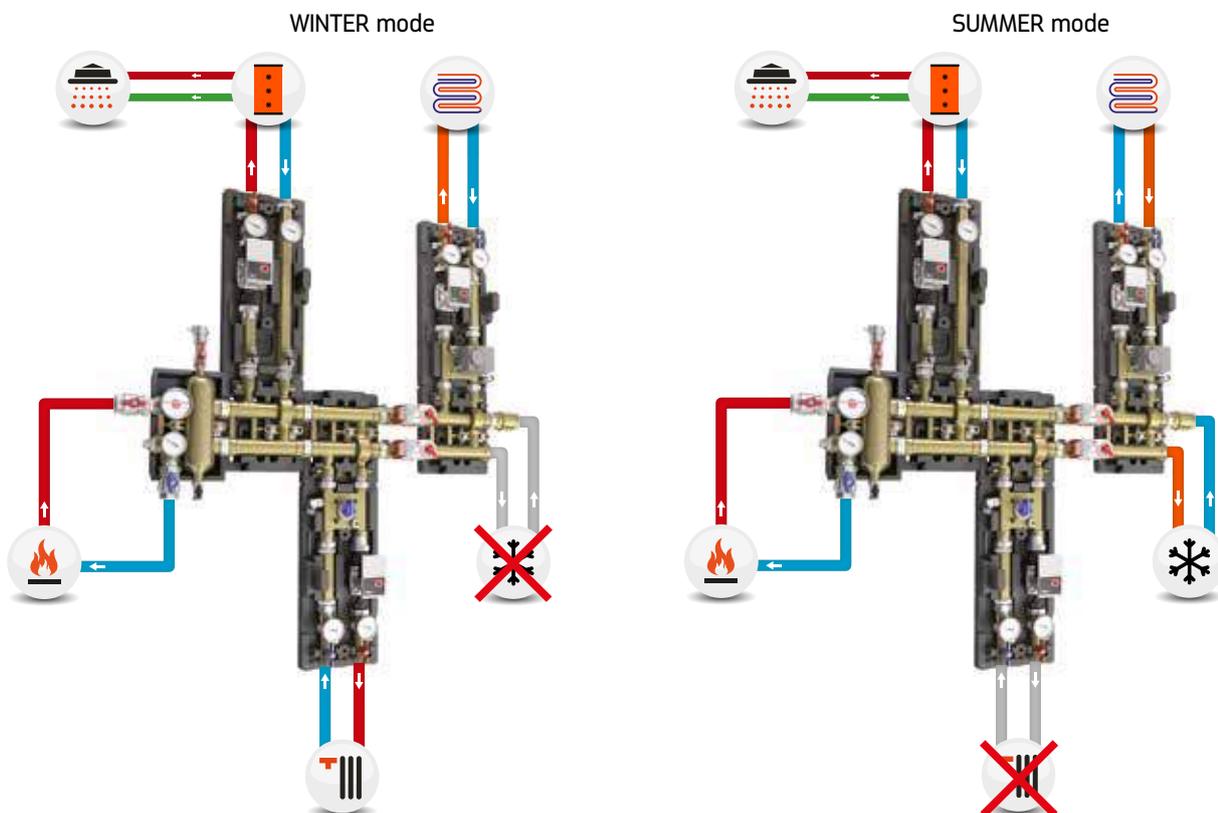
Each kit features its own insulation casing in polypropylene designed to reduce heat dispersion.

Given its size and flexibility, VARIMIX is ideal above all for application inside central heating plants in large houses or blocks of flats with at most 5 or 6 different units (depending on the flow rate requirements).

Max. primary flow rate: 4500 l/h

Max. flow rate per kit: 3000 l/h

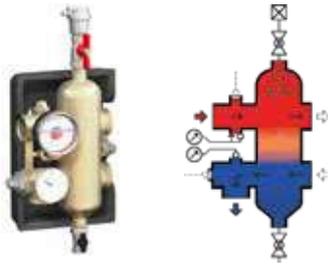
## Example of 3-module VARIMIX distribution in heating/cooling mode.



### **+** PLUS

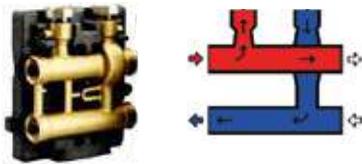
- Easy to install
- Compact and neat
- Completely reversible
- Versatile and customisable
- Suitable for heating and cooling

### HYDRAULIC SEPARATOR



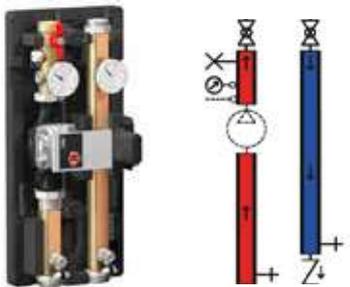
- This enables the hydraulic separation of various circulation pumps installed, keeping the various distribution modules independent.
- Completely reversible: can be supplied from right or left as required.
- Automatic purge valve to remove air bubbles
- Filler/drain valve on base to remove waste and impurities.

### MODULAR MANIFOLD



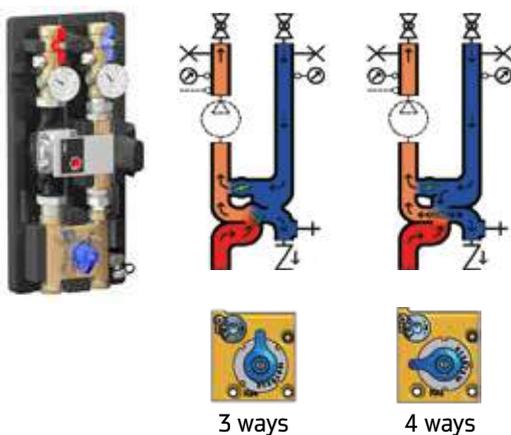
- Enables creation of the main distribution backbone.
- Connection between individual manifolds via rotary nipples.
- Distribution from bottom to top or vice versa, also with option of creating combined configurations.
- Integrated shutoff valves to enable disconnection of distribution module for easier maintenance.

### DIRECT DISTRIBUTION KIT



- High-temperature booster module without mixing.
- Used to supply components such as radiators or towel rails or to heat domestic hot water stored in storage tanks.

### DISTRIBUTION AND MIXING KIT



- Distribution module complete with 3 or 4-way sector mixer valves.
- The solution with 4-way mixer valves also enables mixing on return to the boiler, thereby avoiding corrosion phenomena due to acid condensation in older generators.
- Used for distribution to low temperature utilities such as radiant panels for underfloor heating.
- "LT" versions specially designed for applications with low temperature heat sources (e.g. heat pumps)
- Motorised mixer valves for precision control of supply temperature.
- Available in different versions according to the flow factor Kv.

**VAR 00**



- Separatore idraulico/equilibratore di pressione con termomanometro e valvola di sfiato aria automatica per sistema VARIMIX.
- Hydraulic separator/pressure equalizer with temperature/pressure gauge and automatic air vent valve for VARIMIX system.
- Séparateur hydraulique/équilibrer de pression avec thermomanomètre et purgeur d'air automatique pour système VARIMIX.
- Hydraulische Weiche/Druckausgleicher mit Thermomanometer und automatisch Entlüftungsventil für System VARIMIX.
- Separador hidráulico/equilibrador de presión con medidor de temperatura/presión y válvula automática de purga de aire para el sistema VARIMIX.

Code	Size	Price	Class	Packaging
550600	G 1"1/4 - Q Max 4.500 l/h	291,24 €	NI	1

**VAR 30**



- Collettore modulare di distribuzione per sistema VARIMIX.
- Modular distribution manifold for VARIMIX system.
- Collecteur modulaire de distribution pour système VARIMIX.
- Modul-Verteiler für System VARIMIX.
- Colector modular de distribución para el sistema VARIMIX.

Code	Size	Price	Class	Packaging
550630	G 1"1/4 M - Q Max 4.500 l/h	210,68 €	NI	1

**AC 655 NST**



- Coppia di valvole a sfera diritte maschio-femmina complete di bocchettone a tenuta morbida, manovra a farfalla.
- Pair of male-female straight ball valves with soft-seal fitting, butterfly operation.
- Set de vannes à bille droites mâle-femelle avec goulotte à étanchéité souple, manoeuvre à papillon.
- Paar Durchgangs-Kugelventil AG-IG mit Selbstdichtendsstutzen und Flügelgriff.
- Conjunto de válvulas de bola rectas macho-hembra completas de manguito de unión con junta blanda, vuelta a mariposa.

Code	Potable water compatibility	Size	Color	Price	Class	Packaging
506407	✓	1"1/4	■ / ■	88,68 €	NO	2 / 16

**VAR 10**



- Kit di mandata diretta in alta temperatura per sistema VARIMIX.
- High temperature direct flow kit for VARIMIX system.
- Kit d'envoi direct en haute température pour système VARIMIX.
- Direktversorgungs-Heißwassersatz für System VARIMIX.
- Kit de envío directo de alta temperatura para el sistema VARIMIX.

Code	Pump	Size	Erp	Insulation	Price	Class	Packaging
550610		1"1/4 M	-	✓	278,74 €	NI	1
550610P	WILO3F-180	1"1/4 M	-	✓	441,76 €	NI	1
550610PE	WILO4F-180	1"1/4 M	✓	✓	611,30 €	NI	1

**VAR 11**



- Kit di mandata diretta in alta temperatura con bypass per sistema VARIMIX.
- High temperature direct flow kit with bypass for VARIMIX system.
- Kit d'envoi direct en haute température avec bypass pour système VARIMIX.
- Direktversorgungs-Heißwassersatz mit Bypass für System VARIMIX.
- Kit de envío directo de alta temperatura con bypass para el sistema VARIMIX.

Code	Bypass	Pump	Size	Insulation	Price	Class	Packaging
550611	✓		1"1/4 M	✓	343,46 €	NI	1
550611P	✓	WILO3F-180	1"1/4 M	✓	506,48 €	NI	1

**VAR 20 - 21 - 22 - 23**


- **Kit di miscelazione in bassa temperatura con valvola miscelatrice a 3 o 4 vie per sistema VARIMIX.**
- *Low temperature mixing kit equipped with 3- or 4-way mixing valve for VARIMIX system.*
- **Kit de mélange en basse température complet de vanne mélangeuse à 3 ou 4 voies pour système VARIMIX.**
- *Fußbodenheizungs-Mischersatz mit 3- oder 4-Wege Mischventil für System VARIMIX.*
- **Kit de mezcla de baja temperatura completo de válvula mezcladora de 3 o 4 vías por sistema VARIMIX.**

Code	Bypass	Pump	Ways	Kv	Size	Erp	Price	Class	Packaging
550620	✓		3	4	1"1/4 M	-	426,72 €	NI	1
550621	✓		4	4	1"1/4 M	-	426,72 €	NI	1
550622	✓		4	2	1"1/4 M	-	426,72 €	NI	1
550626	✓		3	8	1"1/4 M	-	426,72 €	NI	1
550620P	✓	WILO3F-180	3	4	1"1/4 M	-	589,74 €	NI	1
550621P	✓	WILO3F-180	4	4	1"1/4 M	-	589,74 €	NI	1
550622P	✓	WILO3F-180	4	2	1"1/4 M	-	589,74 €	NI	1
550626P	✓	WILO3F-180	3	8	1"1/4 M	-	589,74 €	NI	1
550620NB	-		3	4	1"1/4 M	-	418,23 €	NI	1
550621NB	-		4	4	1"1/4 M	-	418,23 €	NI	1
550622NB	-		4	2	1"1/4 M	-	418,23 €	NI	1
550626NB	-		3	8	1"1/4 M	-	418,23 €	NI	1
550620PE	-	WILO4F-180	3	4	1"1/4 M	✓	759,28 €	NI	1
550621PE	-	WILO4F-180	4	4	1"1/4 M	✓	759,28 €	NI	1
550622PE	-	WILO4F-180	4	2	1"1/4 M	✓	759,28 €	NI	1
550626PE	-	WILO4F-180	3	8	1"1/4 M	✓	759,28 €	NI	1

**VAR 20 - 21 - 22 - 23 LT**


- **Kit di miscelazione in bassa temperatura con valvola miscelatrice a 3 o 4 vie per sistema VARIMIX per applicazioni con fonte di calore in bassa temperatura (ad esempio, pompe di calore).**
- *Low temperature mixing kit equipped with 3- or 4-way mixing valve for VARIMIX system for applications with low temperature heat sources (for example, heat pumps).*
- **Kit de mélange en basse température complet de vanne mélangeuse à 3 ou 4 voies pour système VARIMIX pour les applications avec source de chaleur à basse température (par exemple les pompes à chaleur).**
- *Fußbodenheizungs-Mischersatz mit 3- oder 4-Wege Mischventil für System VARIMIX für Niedertemperatur-Wärmequellenanwendungen (z. B. Wärmepumpen).*
- **Kit de mezcla de baja temperatura completo de válvula mezcladora de 3 o 4 vías por sistema VARIMIX para aplicaciones de fuentes de calor a baja temperatura (p. ej., bombas de calor).**

Code	Bypass	Pump	Ways	Kv	Size	Erp	Price	Class	Packaging
550620LT	✓		3	4	1"1/4 M	-	426,72 €	NI	1
550621LT	✓		4	4	1"1/4 M	-	426,72 €	NI	1
550622LT	✓		4	2	1"1/4 M	-	426,72 €	NI	1
550626LT	✓		3	8	1"1/4 M	-	426,72 €	NI	1
550620PLT	✓	WILO3F-180	3	4	1"1/4 M	-	589,74 €	NI	1
550621PLT	✓	WILO3F-180	4	4	1"1/4 M	-	589,74 €	NI	1
550622PLT	✓	WILO3F-180	4	2	1"1/4 M	-	589,74 €	NI	1
550626PLT	✓	WILO3F-180	3	8	1"1/4 M	-	589,74 €	NI	1
550620NBLT	-		3	4	1"1/4 M	-	418,23 €	NI	1
550621NBLT	-		4	4	1"1/4 M	-	418,23 €	NI	1
550622NBLT	-		4	2	1"1/4 M	-	418,23 €	NI	1
550626NBLT	-		3	8	1"1/4 M	-	418,23 €	NI	1
550620PELT	-	WILO4F-180	3	4	1"1/4 M	✓	759,28 €	NI	1
550621PELT	-	WILO4F-180	4	4	1"1/4 M	✓	759,28 €	NI	1
550622PELT	-	WILO4F-180	4	2	1"1/4 M	✓	759,28 €	NI	1
550626PELT	-	WILO4F-180	3	8	1"1/4 M	✓	759,28 €	NI	1

**M 106**



- **Servomotore per valvole miscelatrici a settore.**
- *Motor for rotor mixing valves.*
- **Servomoteur pour vannes mélangeuses à rotor.**
- *Stellantrieb für Rotor-Mischventile.*
- **Servomotor para válvulas mezcladoras de rotor.**

Code	Size	Price	Class	Packaging
501394	3-point regulation (230 V AC)	129,35 €	PC	1 / 8
501395	Proportional 0-10 V (24 V AC)	261,08 €	PC	8
501396	3-point regulation (24 V AC)	154,91 €	PC	10

**CTC 20**



- **Attuatore rotativo con regolatore e sonde incorporati per il controllo a punto fisso delle valvole miscelatrici.**
- *Revolving actuator with incorporated regulator and probes for fixed point control of mixing valves.*
- **Actionneur rotatif avec régulateur et sondes incorporés pour le contrôle à point fixe des vannes mélangeuses.**
- *Drehbar Stellantrieb mit eingebauter Regler und Fühler für festwert Bedingung der Mischventile.*
- **Actuador rotativo con regulador y sondas incorporados para el control a punto fijo de las válvulas mezcladoras.**

Code	Size	Price	Class	Packaging
501648	230 V AC	369,42 €	PC	1

**CC 25**



- **Attuatore rotativo con regolatore e sonde incorporati per controllo climatico delle valvole miscelatrici.**
- *Revolving actuator with incorporated regulator and probes for climatic control of mixing valves.*
- **Actionneur rotatif avec régulateur et sondes incorporés pour le contrôle climatique des vannes mélangeuses.**
- *Drehbar Stellantrieb mit eingebauten Regler und Fühler für klimatisch Bedingung der Mischventile.*
- **Actuador rotativo con regulador y sondas incorporados para el control climático de las válvulas mezcladoras.**

Code	Size	Price	Class	Packaging
501647	230 V AC	734,01 €	PC	1

**AVAR 00**



- **Kit di connessione per vaso d'espansione per sistema VARIMIX.**
- *Connection kit for expansion tank for VARIMIX system.*
- **Kit de connexion pour vase d'expansion pour système VARIMIX.**
- *Anschluß-Set für Ausdehnungsgefäß für System VARIMIX.*
- **Kit de conexión para depósito de expansión para sistema VARIMIX.**

Code	Price	Class	Packaging
550530	45,62 €	NI	10

**AVAR 01**



- **Vaso d'espansione per sistema VARIMIX.**
- *Expansion tank for VARIMIX system.*
- **Vase d'expansion pour système VARIMIX.**
- *Ausdehnungsgefäß für System VARIMIX.*
- **Depósito de expansión para sistema VARIMIX.**

Code	Size	Price	Class	Packaging
180006	18 l	173,14 €	ZC	1

**■ WILO4F**


ErP

- **Circolatore elettronico a velocità variabile (Conforme alla direttiva europea 2009/125/CE - ErP ,Energy related Products').**
- *Variable speed electronic circulator (In accordance with European Directive 2009/125/CE - ErP "Energy related Products").*
- **Circulateur électronique à vitesse variable (Conforme à la Directive Européenne 2009/125/CE - ErP "Energy related Products").**
- *Elektronische Umwälzpumpe mit variabler Geschwindigkeit (Entspricht der Europäischen Richtlinie 2009/125/CE - ErP "Energy related Produkts").*
- **Circulador electrónico de velocidad variable (Conforme a la directiva europea 2009/125/CE - ErP ,Energy related Products').**

Code	Size	Head loss	Price	Class	Packaging
WILO4F-180	1"1/2 - 180 mm	6 m	255,00 €	HK	5

**■ WILO3F**


ErP

- **Circolatore standard a 3 velocità.**
- *3-speed standard circulator.*
- **Circulateur standard à 3 vitesses.**
- *Umwälzpumpe mit 3 Geschwindigkeitsstufen.*
- **Circulador estándar de 3 velocidades.**

Code	Size	Head loss	Price	Class	Packaging
WILO3F-180	1"1/2 - 180 mm	6 m	175,00 €	HK	1

**■ AVAR 02**


- **Kit di zona con valvole on/off motorizzabili e valvola di non ritorno per sistema VARIMIX.**
- *Zone kit with on/off motorized valves and non-return valve for VARIMIX system.*
- **Kit de zone avec vannes on/off motorisées et clapet anti-retour pour système VARIMIX.**
- *Zonen-Bausatz mit ON/OFF motorisierten Ventile und Rückschlagventil für VARIMIX System.*
- **Kit de zona con válvulas on/off motorizadas y válvula de no retorno para sistema VARIMIX.**

Code	Size	Price	Class	Packaging
506276	G 1" 1/4	213,40 €	NI	1

**■ AVZS 00**


- **Servomotore per valvole di zona a sfera.**
- *Servo motor for ball zone valves.*
- **Servomoteur pour vannes de zone à bille.**
- *Stellantriebe für Zonenkugelventile.*
- **Servomotor para válvulas de zona de bola.**

Code	Size	Price	Class	Packaging
506241	230 V AC - 50 sec.	127,83 €	NN	1

**■ AVZS 01**


- **Servomotore per valvole di zona a sfera.**
- *Servo motor for ball zone valves.*
- **Servomoteur pour vannes de zone à bille.**
- *Stellantriebe für Zonenkugelventile.*
- **Servomotor para válvulas de zona de bola.**

Code	Size	Price	Class	Packaging
506241V	230 V AC - 25 sec.	127,83 €	NN	1

**■ AVZS 10**


- **Servomotore per valvole di zona a sfera con dispositivo di sblocco.**
- *Servo motor for ball zone valves with release device.*
- **Servomoteur pour les vannes de zone à bille avec dispositif de déblocage.**
- *Stellantriebe für Zonenkugelventile mit Entriegelungsvorrichtung.*
- **Servomotor para válvulas de zona de bola con dispositivo de desbloqueo.**

Code	Size	Price	Class	Packaging
506242	24 V AC - 50 sec.	138,14 €	NN	1
506243	230 V AC - 50 sec.	135,24 €	NN	2 / 8

**■ AVZS 11**


- **Servomotore per valvole di zona a sfera con dispositivo di sblocco.**
- *Servo motor for ball zone valves with release device.*
- **Servomoteur pour les vannes de zone à bille avec dispositif de déblocage.**
- *Stellantriebe für Zonenkugelventile mit Entriegelungsvorrichtung.*
- **Servomotor para válvulas de zona de bola con dispositivo de desbloqueo.**

Code	Size	Price	Class	Packaging
506242V	24 V AC - 25 sec.	138,14 €	NN	1
506243V	230 V AC - 25 sec.	135,24 €	NN	1 / 8

AC 600



- Tappo maschio.
- Male plug.
- Bouchon mâle.
- AG Verschluss.
- Tapón macho.

Code	Size	Color	Price	Class	Packaging
500904	1"1/4 M	Yellow	4,18 €	NJ	20 / 160
500905	1"1/4 M	Grey	4,23 €	NJ	35 / 140

AC 632



- Raccordo sdoppiatore.
- Splitter fitting.
- Raccord dédoubleur.
- Vertdoppler-Anschluß.
- Racor doble.

Code	Size	Color	Price	Class	Packaging
550580	1" 1/4 F x 1" M	Yellow / Grey	21,27 €	NI	6 / 48

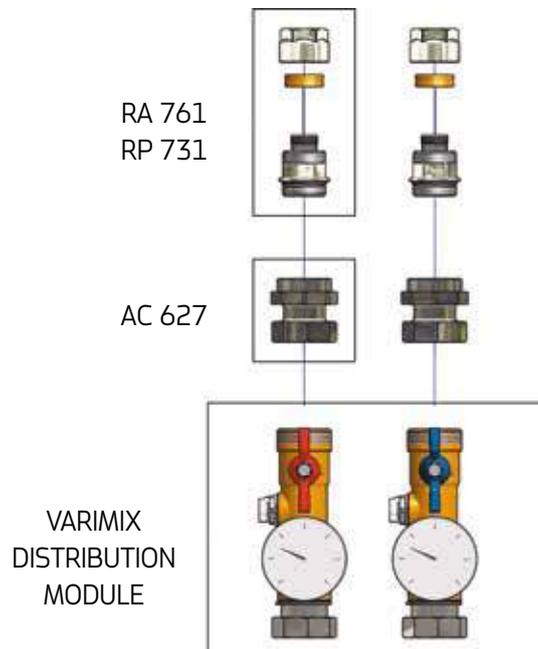
AC 627



- Bocchettone ridotto girevole a tenuta morbida.
- Reduced soft seal fitting.
- Embout à étanchéité souple réduite.
- Reduziert Selbstdichtendstützen.
- Manguito de unión reducido con junta blanda.

Code	Size	Color	Price	Class	Packaging
550551	3/4" F x 1"1/4 F	Yellow	11,23 €	NJ	10 / 80
550552	1" F x 1"1/4 F	Yellow	11,13 €	NJ	10 / 80
550551N	3/4" F x 1"1/4 F	Grey	11,59 €	NJ	10 / 80
550552N	1" F x 1"1/4" F	Grey	11,53 €	NJ	10 / 80

PIPE CONNECTION TO VARIMIX MODULES



**RA 761**


- **Raccordo a stringere diritto maschio per tubo multistrato.**
- *Compression straight male fitting for multilayer pipe.*
- **Raccord à serrage droit mâle pour tube multicouche.**
- *Durchgang AG Pressanschluss für Verbundrohr.*
- **Racor de compresión recto macho para tubo multicapa.**

Code	Size	Color	Price	Class	Packaging
500043	3/4" M x 20/2	■	5,83 €	LA	25 / 100
501361	3/4" M x 25/2,5	■	8,86 €	LA	25 / 200
500122	3/4" M x 25/3	■	8,86 €	LA	25 / 100
501084	3/4" M x 26/3	■	8,86 €	LA	25 / 100
501497	3/4" M x 32/3	■	14,00 €	LA	15 / 120
506489	1" M x 25/2,5	■	9,19 €	LA	15 / 120
506490	1" M x 25/3	■	9,19 €	LA	15 / 120
506057	1" M x 26/3	■	9,19 €	LA	15 / 120
500203	1" M x 32/3	■	12,08 €	LA	10 / 80
500043N	3/4" M x 20/2	■	5,97 €	LA	25 / 200
501361N	3/4" M x 25/2,5	■	9,11 €	LA	25 / 200
500122N	3/4" M x 25/3	■	9,11 €	LA	25 / 100
501084N	3/4" M x 26/3	■	9,11 €	LA	25 / 100
501497N	3/4" M x 32/3	■	14,42 €	LA	15 / 120
506489N	1" M x 25/2,5	■	9,45 €	LA	15 / 120
506490N	1" M x 25/3	■	9,45 €	LA	15 / 120
506057N	1" M x 26/3	■	9,45 €	LA	15 / 120
500203N	1" M x 32/3	■	12,43 €	LA	10 / 80

**RP 731**


- **Raccordo a stringere diritto maschio per tubo in polietilene.**
- *Compression straight male fitting for polyethylene pipe.*
- **Raccord à serrage droit mâle pour tube en polyéthylène.**
- *Durchgang AG Pressanschluss für Polyäthylenrohr.*
- **Racor de compresión recto macho para tubo de polietileno.**

Code	Size	Color	Price	Class	Packaging
506209	3/4" M x 20/2	■	5,59 €	LA	25 / 200
501051	3/4" M x 20/2,8	■	5,59 €	LA	25 / 200
501054	3/4" M x 25/2,3	■	8,89 €	LA	25 / 100
550042	3/4" M x 25/2,5	■	8,89 €	LA	25 / 200
501052	3/4" M x 25/3,5	■	8,89 €	LA	20 / 160
501498	3/4" M x 32/4,4	■	13,50 €	LA	15 / 120
506492	1" M x 25/2,3	■	8,84 €	LA	20 / 160
506493	1" M x 25/2,5	■	8,84 €	LA	20 / 160
991310	1" M x 25/3,5	■	9,24 €	LA	20 / 160
506209N	3/4" M x 20/2,3	■	5,76 €	LA	25 / 200
501051N	3/4" M x 20/2,8	■	5,76 €	LA	25 / 200
501054N	3/4" M x 25/2,3	■	9,16 €	LA	25 / 100
550042N	3/4" M x 25/2,5	■	9,16 €	LA	25 / 200
501052N	3/4" M x 25/3,5	■	9,16 €	LA	25 / 100
501498N	3/4" M x 32/4,4	■	13,91 €	LA	15 / 120
506492N	1" M x 25/2,3	■	9,10 €	LA	20 / 160
506493N	1" M x 25/2,5	■	9,10 €	LA	20 / 160
991310N	1" M x 25/3,5	■	9,51 €	LA	20 / 160

■ AC 606



- Nipplo girevole maschio - maschio.
- Swivelling male - male nipple.
- Nipple pivotant mâle - mâle.
- AG - AG drehbarer Nippel.
- Entrerrosca giratoria macho - macho.

Code	Size	Color	Price	Class	Packaging
500387	1"1/4 M O-ring x 1"1/4 M O-ring		14,58 €	NJ	10 / 40
500387N	1"1/4 M O-ring x 1"1/4 M O-ring		15,31 €	NJ	10 / 40

■ RF 800



- Manicotto femmina - femmina.
- Female-female sleeve.
- Embout femelle - femelle.
- IG x IG Muffe.
- Manguito hembra - hembra.

Code	Size	Color	Price	Class	Packaging
506611	1"1/4 F x 1"1/4 F		6,33 €	KA	20 / 80
506611N	1"1/4 F x 1"1/4 F		6,97 €	KA	20 / 80

■ AVAR 03



- Coibentazione per VAR 00.
- Insulation for VAR 00.
- Isolement pour VAR 00.
- Isolierung für VAR 00.
- Aislamiento para VAR 00

Code	Price	Class	Packaging
550601	47,08 €	NI	3

■ AVAR 04



- Coibentazione per VAR 30.
- Insulation for VAR 30.
- Isolement pour VAR 30.
- Isolierung für VAR 30.
- Aislamiento para VAR 30.

Code	Price	Class	Packaging
550602	21,37 €	NI	1

■ AVAR 05



- Coibentazione per VAR 10 - VAR 11 - VAR 20.
- Insulation for VAR 10 - VAR 11 - VAR 20.
- Isolement pour VAR 10 - VAR 11 - VAR 20.
- Isolierung für VAR 10 - VAR 11 - VAR 20.
- Aislamiento para VAR 10 - VAR 11 - VAR 20.

Code	Price	Class	Packaging
550603	27,50 €	NI	1

# STORAGE TANKS

The storage tank is the thermal inertia of the installation, and can store domestic hot water or "primary" heating water. Domestic hot water is heated and stored in boilers, which support efficient demand management from single users or the condominium's installation. They may be in stainless steel or carbon steel with internally treated surface and with corrosion-proof protection.

Buffer tanks, on the other hand, store heating water, are less delicate than DHW boilers and are suitable for storing energy from a variety of sources and make it available to the heating system and for the production of instant on-demand domestic hot water.

There are also systems that store technical water, but also a more or less plentiful quantity of domestic water: this is the case of "tank-in-tank" systems and systems with large-sized, built-in DHW coil, for „semi-instant" production of DHW.

IVAR offers traditional technical water storage cylinders, with semi-instantaneous coils, thermal vents and solutions for the improvement of temperature stratification; the range also includes "tank-in-tank" systems and boilers for domestic hot water, also with larger coil for coupling with heat pump.



Integrabile con sistema solare termico.  
*Integrable with solar thermal system.*  
Intégréable avec système solaire thermique.  
*Integrierbar mit solarthermischem System.*  
Integrable con el sistema de energía solar térmica.



Adatto per acqua tecnica per riscaldamento.  
*Suitable for heating water.*  
Adapté pour de l'eau de chauffage.  
*Geeignet für Heizwasser.*  
Adecuado para agua técnica para calefacción.



Adatto per acqua sanitaria.  
*Suitable for domestic water.*  
Adapté pour de l'eau sanitaire.  
*Geeignet für Trinkwasser.*  
Adecuado para agua sanitaria.



Integrabile con pompa di calore (serpentino maggiorato).  
*Integrable with heat pump (larger coil).*  
Intégréable avec la pompe à chaleur (serpentin avec une plus grande surface).  
*Integrierbar mit Wärmepumpe (Rohrschlange mit vergrößerter Oberfläche).*  
Integrable con la bomba de calor (serpentin con una mayor superficie).



Adatto per acqua tecnica per riscaldamento e refrigerata.  
*Suitable for heating and cooling water.*  
Adapté pour de l'eau de chauffage et réfrigérée.  
*Geeignet für Heizwasser und Kühlwasser.*  
Adecuado para agua técnica para calefacción y refrigerada..



### VS1



- Accumolatore con superficie interna trattata per acqua sanitaria, predisposizione per l'inserimento di uno scambiatore di calore a serpentino estraibile e coibentazione in poliuretano.
- Storage tank equipped with treated inner surface for domestic water, housing for the installation of one removable coil heat exchanger and polyurethane insulation.
- Réservoir d'accumulation avec la surface intérieure traitée pour de l'eau sanitaire, une fente pour l'insertion d'un échangeur de chaleur à serpentin amovible et l'isolation en polyuréthane.
- Speicher für Brauchwasser intern behandelt, für das Einfügen von einem herausziehbarem Rohrschlange-Wärmetauscher vorgerüstet, mit Isolierung aus Polyurethan.
- Acumulador con la superficie interior tratada para agua sanitaria, predisposición para la introducción de un intercambiador de calor de serpentin extraíble y aislamiento de poliuretano.

Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1K09309	300 l	C	Polyester	100 mm	On request	Z5	1
1K09509	500 l	D	Polyester	100 mm	On request	Z5	1
1K09805	800 l		Soft polyurethane	100 mm	On request	Z5	1
1K09A05	1000 l		Soft polyurethane	100 mm	On request	Z5	1
1J09A55	1500 l		Soft polyurethane	100 mm	On request	Z5	1
1J09B05	2000 l		Soft polyurethane	100 mm	On request	Z5	1
1J09C05	3000 l		Soft polyurethane	100 mm	On request	Z5	1
1J09D05	4000 l		Soft polyurethane	100 mm	On request	Z5	1
1J09E05	5000 l		Soft polyurethane	100 mm	On request	Z5	1

### VS3



- Accumolatore con superficie interna trattata per acqua sanitaria, predisposizione per l'inserimento di 3 scambiatori di calore a serpentino estraibili e coibentazione in poliuretano.
- Storage tank equipped with treated inner surface for domestic water, housings for the installation of 3 removable coil heat exchangers and polyurethane insulation.
- Réservoir d'accumulation avec la surface intérieure traitée pour de l'eau sanitaire, les fentes pour l'insertion de 3 échangeurs de chaleur à serpentin amovibles et l'isolation en polyuréthane.
- Speicher für Brauchwasser intern behandelt, für das Einfügen von 3 herausziehbaren Rohrschlange-Wärmetauschern vorgerüstet, mit Isolierung aus Polyurethan.
- Acumulador con la superficie interior tratada para agua sanitaria, predisposición para la introducción de 3 intercambiadores de calor de serpentin extraíbles y aislamiento de poliuretano.

Code	Size	Insulation type	Insulation thickness	Price	Class	Packaging
1K11805	800 l	Soft polyurethane	100 mm	On request	Z5	1
1K11A05	1000 l	Soft polyurethane	100 mm	On request	Z5	1
1J11A55	1500 l	Soft polyurethane	100 mm	On request	Z5	1
1J11B05	2000 l	Soft polyurethane	100 mm	On request	Z5	1
1J11B55	2500 l	Soft polyurethane	100 mm	On request	Z5	1
1J11C05	3000 l	Soft polyurethane	100 mm	On request	Z5	1
1J11D05	4000 l	Soft polyurethane	100 mm	On request	Z5	1
1J11E05	5000 l	Soft polyurethane	100 mm	On request	Z5	1

### IVAR.SR



- Scambiatore di calore a serpentino estraibile in rame alettato stagnato per accumulatori VS.
- Removable finned tin-coated copper coil heat exchanger for VS storage tanks.
- Échangeur de chaleur à serpentin amovible en cuivre étamé avec ailettes pour réservoirs d'accumulation VS.
- Herausziehbar Rohrschlange-Wärmetauscher aus geripptem verzinnem Kupfer für Speicher VS.
- Intercambiador de calor de serpentin extraíble de cobre estañado con aletas para acumuladores VS.

Code	Size	Price	Class	Packaging
4000607	1,21 m <sup>2</sup> - 0,7 l	On request	Z5	1
4000608	1,80 m <sup>2</sup> - 1,4 l	On request	Z5	1
4000609	2,63 m <sup>2</sup> - 2,0 l	On request	Z5	1
4000610	3,20 m <sup>2</sup> - 2,5 l	On request	Z5	1
4000611	4,54 m <sup>2</sup> - 3,5 l	On request	Z5	1
4000612	6,34 m <sup>2</sup> - 5,0 l	On request	Z5	1

**SP**


- **Accumulatore con superficie interna trattata per acqua sanitaria, uno scambiatore di calore a serpentino e coibentazione in poliuretano.**
- *Storage tank equipped with treated inner surface for domestic water, one coil heat exchanger and polyurethane insulation.*
- **Réservoir d'accumulation avec la surface intérieure traitée pour de l'eau sanitaire, un échangeur de chaleur à serpentin et l'isolation en polyuréthane.**
- *Speicher für Brauchwasser intern behandelt, mit einem Rohrschlange-Wärmetauscher und Isolierung aus Polyurethan.*
- **Acumulador con la superficie interior tratada para agua sanitaria, intercambiador de calor de serpentin y aislamiento de poliuretano.**

Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1K0115D	150 l	B	Injected hard polyurethane	50 mm	On request	Z5	1
1K0120D	200 l	C	Injected hard polyurethane	50 mm	On request	Z5	1
1K0130D	300 l	C	Injected hard polyurethane	50 mm	On request	Z5	1
1K0140D	400 l	D	Injected hard polyurethane	50 mm	On request	Z5	1
1K0150D	500 l	D	Injected hard polyurethane	50 mm	On request	Z5	1
1K0160D	600 l		Injected hard polyurethane	50 mm	On request	Z5	1
1K0180Z	800 l		Soft polyurethane	100 mm	On request	Z5	1
1K01A0Z	1000 l		Soft polyurethane	100 mm	On request	Z5	1

**SPS**


- **Accumulatore con superficie interna trattata per acqua sanitaria, 2 scambiatori di calore a serpentino e coibentazione in poliuretano.**
- *Storage tank equipped with treated inner surface for domestic water, 2 coil heat exchangers and polyurethane insulation.*
- **Réservoir d'accumulation avec la surface intérieure traitée pour de l'eau sanitaire, 2 échangeurs de chaleur à serpentin et l'isolation en polyuréthane.**
- *Speicher für Brauchwasser intern behandelt, mit 2 Rohrschlange-Wärmetauschern vorgerüstet und Isolierung aus Polyurethan.*
- **Acumulador con la superficie interior tratada para agua sanitaria, 2 intercambiadores de calor de serpentin y aislamiento de poliuretano.**

Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1K0220D	200 l	C	Injected hard polyurethane	50 mm	On request	Z5	1
1K0230D	300 l	C	Injected hard polyurethane	50 mm	On request	Z5	1
1K0240D	400 l	D	Injected hard polyurethane	50 mm	On request	Z5	1
1K0250D	500 l	D	Injected hard polyurethane	50 mm	On request	Z5	1
1K0260D	600 l		Injected hard polyurethane	50 mm	On request	Z5	1
1K0280Z	800 l		Soft polyurethane	100 mm	On request	Z5	1
1K02A0Z	1000 l		Soft polyurethane	100 mm	On request	Z5	1

WWM



- **Accumulatore con superficie interna trattata per acqua sanitaria, uno scambiatore di calore a serpentino con superficie maggiorata (adatto per la connessione della pompa di calore) e coibentazione in poliuretano.**
- *Storage tank equipped with treated inner surface for domestic water, one coil heat exchanger with larger surface (suitable for heat pump connection) and polyurethane insulation.*
- **Réservoir d'accumulation avec la surface intérieure traitée pour de l'eau sanitaire, un échangeur de chaleur à serpentin avec une plus grande surface (approprié pour le raccordement de la pompe à chaleur) et l'isolation en polyuréthane.**
- *Speicher für Brauchwasser intern behandelt, mit einem Rohrschlange-Wärmetauscher mit vergrößerter Oberfläche (für die Verbindung der Wärmepumpe) und Isolierung aus Polyurethan.*
- **Acumulador con la superficie interior tratada para agua sanitaria, intercambiador de calor de serpentín con una mayor superficie (adecuado para la conexión de la bomba de calor) y aislamiento de poliuretano.**

Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1Y5920D	200 l	C	Injected hard polyurethane	50 mm	On request	Z5	1
1Y5930D	300 l	C	Injected hard polyurethane	50 mm	On request	Z5	1
1Y5940D	400 l	D	Injected hard polyurethane	50 mm	On request	Z5	1
1Y5950D	500 l	D	Injected hard polyurethane	50 mm	On request	Z5	1
1Y5980S	800 l		Soft polyurethane	100 mm	On request	Z5	1
1Y59A0S	1000 l		Soft polyurethane	100 mm	On request	Z5	1

EPM



- **Accumulatore con superficie interna trattata per acqua sanitaria, 2 scambiatori di calore a serpentino (scambiatore di calore superiore con superficie maggiorata, adatto per la connessione della pompa di calore) e coibentazione in poliuretano.**
- *Storage tank equipped with treated inner surface for domestic water, 2 coil heat exchangers (upper heat exchanger with larger surface, suitable for heat pump connection) and polyurethane insulation.*
- **Réservoir d'accumulation avec la surface intérieure traitée pour de l'eau sanitaire, 2 échangeurs de chaleur à serpentin (échangeur de chaleur supérieur avec une plus grande surface, approprié pour le raccordement de la pompe à chaleur) et l'isolation en polyuréthane.**
- *Speicher für Brauchwasser intern behandelt, mit 2 Rohrschlange-Wärmetauschern vorgerüstet (Wärmetauscher oben mit vergrößerter Oberfläche für die Verbindung der Wärmepumpe) und Isolierung aus Polyurethan.*
- **Acumulador con la superficie interior tratada para agua sanitaria, 2 intercambiadores de calor de serpentín (intercambiador de calor superior con una mayor superficie, adecuado para la conexión de la bomba de calor) y aislamiento de poliuretano.**

Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1Y7830D	300 l	C	Polyester	50 mm	On request	Z5	1
1Y7850D	500 l	D	Polyester	50 mm	On request	Z5	1

**■ VSDZR**


- Valvola a sfera (blu) a tenuta piatta in lega antidezincificazione. Per applicazioni sanitarie.
- Flat-seal anticorrosion-brass ball valve (blue). Suitable to domestic water applications.
- Vanne à bille (bleue) à étanchéité plate en alliage résistant à la dézincification. Pour des applications sanitaires.
- Kugelventil (blau) mit Flachdichtung aus entzinkungsresistenter Legierung. Für Sanitärwendungen.
- Válvula de bola (azul) con junta plana de aleación resistente a la desgalvanización. Para aplicaciones sanitarias.

Code	Size	Color	Price	Class	Packaging
190099BDZR	3/4" M x 3/4" M		13,88 €	Z6	1

**■ VSRDZR**


- Valvola a sfera (rossa) a tenuta piatta in lega antidezincificazione. Per applicazioni sanitarie.
- Flat-seal anticorrosion-brass ball valve (red). Suitable to domestic water applications.
- Vanne à bille (rouge) à étanchéité plate en alliage résistant à la dézincification. Pour des applications sanitaires.
- Kugelventil (rot) mit Flachdichtung aus entzinkungsresistenter Legierung. Für Sanitärwendungen.
- Válvula de bola (roja) con junta plana de aleación resistente a la desgalvanización. Para aplicaciones sanitarias.

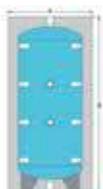
Code	Size	Color	Price	Class	Packaging
190099RDZR	3/4" M x 3/4" M		13,88 €	Z6	1

**■ AS 4000**


- Anodo sacrificale al magnesio o elettronico.
- Magnesium-type or electronic sacrificial anode.
- Anode superficielle au magnésium ou électronique.
- Opferanode mit Magnesium oder Elektronisch.
- Ánodo de sacrificio de magnesio o electrónico.

Code	Size	Price	Class	Packaging
4000200	Electronic - 1/2" - 450 mm	On request	Z5	1
4000201	Electronic - 1/2" - 550 mm	On request	Z5	1
4000202	Mg - 1 1/4" - 400 mm	On request	Z5	1
4000205	Mg - 1 1/4" - 700 mm	On request	Z5	1

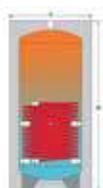
## PS



- **Accumulatore per acqua tecnica per riscaldamento con coibentazione in poliuretano, senza scambiatori di calore a serpentino.**
- *Heating water storage tank equipped with polyurethane insulation, with no coil heat exchangers.*
- **Réservoir d'accumulation pour de l'eau de chauffage avec isolation en polyuréthane, sans échangeurs de chaleur à serpentin.**
- *Speicher für Heizwasser mit Isolierung aus Polyurethan, ohne Rohrschlange-Wärmetauscher.*
- **Acumulador para agua técnica para calefacción con aislamiento de poliuretano, sin intercambiadores de calor de serpentín.**

Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1V12305	300 l	C	Polyester	100 mm	On request	Z5	1
1V12505	500 l	C	Polyester	100 mm	On request	Z5	1
1V12805	800 l		Soft polyurethane	100 mm	On request	Z5	1
1V12A05	1000 l		Soft polyurethane	100 mm	On request	Z5	1
1V12A35	1250 l		Soft polyurethane	100 mm	On request	Z5	1
1V12A55	1500 l		Soft polyurethane	100 mm	On request	Z5	1
1V12B05	2000 l		Soft polyurethane	100 mm	On request	Z5	1
1V12C05	3000 l		Soft polyurethane	100 mm	On request	Z5	1
1V12D05	4000 l		Soft polyurethane	100 mm	On request	Z5	1
1V12E05	5000 l		Soft polyurethane	100 mm	On request	Z5	1

## PSR



- **Accumulatore per acqua tecnica con uno scambiatore di calore a serpentino e coibentazione in poliuretano.**
- *Heating water storage tank equipped with one coil heat exchanger and polyurethane insulation.*
- **Réservoir d'accumulation pour de l'eau de chauffage avec un échangeur de chaleur à serpentin et l'isolation en polyuréthane.**
- *Speicher für Heizwasser mit einem Rohrschlange-Wärmetauscher und Isolierung aus Polyurethan.*
- **Acumulador para agua técnica con un intercambiador de calor de serpentín y aislamiento de poliuretano.**

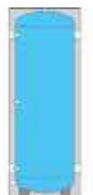
Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1V13305	300 l	C	Polyester	100 mm	On request	Z5	1
1V13505	500 l	C	Polyester	100 mm	On request	Z5	1
1V13805	800 l		Soft polyurethane	100 mm	On request	Z5	1
1V13A05	1000 l		Soft polyurethane	100 mm	On request	Z5	1
1V13A35	1250 l		Soft polyurethane	100 mm	On request	Z5	1
1V13A55	1500 l		Soft polyurethane	100 mm	On request	Z5	1
1V13B05	2000 l		Soft polyurethane	100 mm	On request	Z5	1
1V13C05	3000 l		Soft polyurethane	100 mm	On request	Z5	1
1V13D05	4000 l		Soft polyurethane	100 mm	On request	Z5	1
1V13E05	5000 l		Soft polyurethane	100 mm	On request	Z5	1

## PSRR



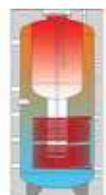
- **Accumulatore per acqua tecnica con 2 scambiatori di calore a serpentino e coibentazione in poliuretano.**
- *Heating water storage tank equipped with 2 coil heat exchangers and polyurethane insulation.*
- **Réservoir d'accumulation pour de l'eau de chauffage avec 2 échangeurs de chaleur à serpentin et l'isolation en polyuréthane.**
- *Speicher für Heizwasser mit 2 Rohrschlange-Wärmetauschern und Isolierung aus Polyurethan.*
- **Acumulador para agua técnica con 2 intercambiadores de calor de serpentín y aislamiento de poliuretano.**

Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1V54505	500 l	C	Polyester	100 mm	On request	Z5	1
1V54805	800 l		Soft polyurethane	100 mm	On request	Z5	1
1V54A05	1000 l		Soft polyurethane	100 mm	On request	Z5	1
1V54A35	1250 l		Soft polyurethane	100 mm	On request	Z5	1
1V54A55	1500 l		Soft polyurethane	100 mm	On request	Z5	1

**PSS**


- **Accumulatore per acqua tecnica per riscaldamento e refrigerata con coibentazione anticondensa in poliuretano, senza scambiatori di calore a serpentino.**
- *Heating and cooling water storage tank equipped with anti-condensing polyurethane insulation, with no coil heat exchangers.*
- **Réservoir d'accumulation pour de l'eau de chauffage et réfrigérée avec isolation spéciale contre la condensation en polyuréthane, sans échangeurs de chaleur à serpentin.**
- *Speicher für Heizwasser und Kühlwasser mit Antikondensationsisolierung aus Polyurethan, ohne Rohrschlange-Wärmetauscher.*
- **Acumulador para agua técnica para calefacción y refrigerada con aislamiento de poliuretano, sin intercambiadores de calor de serpentin.**

Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1V1905D	50 l	B	Injected hard polyurethane	50 mm	On request	Z5	1
1V1910D	100 l	B	Injected hard polyurethane	50 mm	On request	Z5	1
1V1920D	200 l	C	Injected hard polyurethane	50 mm	On request	Z5	1
1V1930D	300 l	C	Injected hard polyurethane	50 mm	On request	Z5	1
1V1950D	500 l	D	Injected hard polyurethane	50 mm	On request	Z5	1
1V19801	800 l		PEXL	30 mm	On request	Z5	1
1V19A01	1000 l		PEXL	30 mm	On request	Z5	1

**BSF**


- **Accumulatore "Tank-in-tank" per acqua tecnica con uno scambiatore di calore a serpentino, serbatoio speciale per la produzione di acqua calda sanitaria e coibentazione in poliuretano.**
- *"Tank-in-tank" heating water storage tank equipped with one coil heat exchanger, special tank for domestic hot water preparation and polyurethane insulation.*
- **Réservoir d'accumulation «Tank in tank» pour de l'eau de chauffage avec un échangeur de chaleur à serpentin, un réservoir spécial pour la production d'eau chaude sanitaire et l'isolation en polyuréthane.**
- *Speicher für Heizwasser „Tank-in-tank“ mit einem Rohrschlange-Wärmetauscher, einem speziellen Tank für Trinkwarmwasseraufbereitung und Isolierung aus Polyurethan.*
- **Acumulador para agua técnica "Tank-in-tank" con un intercambiador de calor de serpentin, un tanque especial para la producción de agua caliente sanitaria y aislamiento de poliuretano.**

Code	Size	Insulation type	Insulation thickness	Price	Class	Packaging
1K04605	600 l	Soft polyurethane	100 mm	On request	Z5	1
1K04755	750 l	Soft polyurethane	100 mm	On request	Z5	1
1K04A05	1000 l	Soft polyurethane	100 mm	On request	Z5	1
1K04A55	1500 l	Soft polyurethane	100 mm	On request	Z5	1
1K04B05	2000 l	Soft polyurethane	100 mm	On request	Z5	1

**BSF2S**


- **Accumulatore "Tank-in-tank" per acqua tecnica con 2 scambiatori di calore a serpentino, serbatoio speciale per la produzione di acqua calda sanitaria e coibentazione in poliuretano.**
- *"Tank-in-tank" heating water storage tank equipped with 2 coil heat exchangers, special tank for domestic hot water preparation and polyurethane insulation.*
- **Réservoir d'accumulation «Tank in tank» pour de l'eau de chauffage avec 2 échangeurs de chaleur à serpentin, un réservoir spécial pour la production d'eau chaude sanitaire et l'isolation en polyuréthane.**
- *Speicher für Heizwasser „Tank-in-tank“ mit 2 Rohrschlange-Wärmetauschern, einem speziellen Tank für Trinkwarmwasseraufbereitung und Isolierung aus Polyurethan.*
- **Acumulador para agua técnica "Tank-in-tank" con 2 intercambiadores de calor de serpentin, un tanque especial para la producción de agua caliente sanitaria y aislamiento de poliuretano.**

Code	Size	Insulation type	Insulation thickness	Price	Class	Packaging
1K53605	600 l	Soft polyurethane	100 mm	On request	Z5	1
1K53755	750 l	Soft polyurethane	100 mm	On request	Z5	1
1K53A05	1000 l	Soft polyurethane	100 mm	On request	Z5	1
1K53A55	1500 l	Soft polyurethane	100 mm	On request	Z5	1
1K53B05	2000 l	Soft polyurethane	100 mm	On request	Z5	1

## TT



- Accumulatori a stratificazione termica per acqua tecnica da riscaldamento con scambiatore di calore a serpentino, camino termico, scambiatore di calore per la produzione semi-istantanea di acqua calda sanitaria, attacchi per la connessione del gruppo di circolazione solare e coibentazione in poliuretano.
- Thermal stratification storage tank for heating water equipped with coil heat exchanger, thermal chimney, heat exchanger for domestic hot water semi-instantaneous preparation, joints for solar circulation group connection and polyurethane insulation.
- Réservoir d'accumulation à stratification thermique pour de l'eau de chauffage avec un échangeur de chaleur à serpentin, cheminée thermique, échangeur de chaleur pour la production semi-instantanée d'eau chaude sanitaire, embouts pour la connexion du groupe de circulation solaire et isolation en polyuréthane.
- Speicher für Heizwasser mit thermischer Schichtung, einem Rohrschlange-Wärmetauscher, Thermokamin, Wärmetauscher für halb- Augenblicklich Trinkwarmwasseraufbereitung, Anschlüsse für die Verbindung von Solarzirkulationseinheit und Isolierung aus Polyurethan.
- Acumulador de estratificación térmica para agua técnica de calefacción con un intercambiador de calor de serpentín, chimenea térmica, intercambiador de calor para la producción semi-instantánea de agua caliente sanitaria, predisposición para la conexión del grupo de circulación solar y aislamiento de poliuretano.

Code	Size	Efficiency class	Insulation type	Insulation thickness	Price	Class	Packaging
1V5730DSTT3	300 l	C	Injected hard polyurethane	50 mm	2.601,08 €	Z5	1
1V5750DSTT4	500 l	D	Injected hard polyurethane	50 mm	3.158,32 €	Z5	1

## TSP



- Accumulatore per acqua tecnica con 2 scambiatori di calore a serpentino, scambiatore di calore integrato per la produzione semi-istantanea di acqua calda sanitaria e coibentazione in poliuretano.
- Heating water storage tank equipped with 2 coil heat exchangers, integrated heat exchanger for domestic hot water semi-instantaneous preparation and polyurethane insulation.
- Réservoir d'accumulation pour de l'eau de chauffage avec 2 échangeurs de chaleur à serpentin, échangeur de chaleur intégré pour la production semi-instantanée d'eau chaude sanitaire et l'isolation en polyuréthane.
- Speicher für Heizwasser mit 2 Rohrschlange-Wärmetauschern, integriertem Wärmetauscher für halb- Augenblicklich Trinkwarmwasseraufbereitung und Isolierung aus Polyurethan.
- Acumulador para agua técnica con 2 intercambiadores de calor de serpentín, intercambiador de calor para la producción semi-instantánea de agua caliente sanitaria y aislamiento de poliuretano.

Code	Size	Insulation type	Insulation thickness	Price	Class	Packaging
1VD5585	580 l	Soft polyurethane	100 mm	On request	Z5	1
1VD5805	800 l	Soft polyurethane	100 mm	On request	Z5	1
1VD5A05	1000 l	Soft polyurethane	100 mm	On request	Z5	1
1VD5A35	1250 l	Soft polyurethane	100 mm	On request	Z5	1
1VD5A55	1500 l	Soft polyurethane	100 mm	On request	Z5	1
1VD5B05	2000 l	Soft polyurethane	100 mm	9.311,12 €	Z5	1

**VEARS**


- Vaso di espansione per acqua tecnica/accumulo sanitario.
- Expansion tank for technical/domestic water storage tank.
- Vase d'expansion pour de l'eau technique/ réservoir d'accumulation sanitaire.
- Expansionsgefäß für technisches Wasser/Speicher für Trinkwasser.
- Vaso de expansión para agua técnica/acumulación sanitaria.

Code	Size	Height	Price	Class	Packaging
VEARS5	5 l - Ø155 mm - G 3/4"	300 mm	34,29 €	ZC	1
VEARS8	8 l - Ø195 mm - G 3/4"	325 mm	38,40 €	ZC	1
VEARS15	15 l - Ø260 mm - G 3/4"	360 mm	45,07 €	ZC	1
VEARS20	20 l - Ø260 mm - G 3/4"	420 mm	47,81 €	ZC	1
VEARS24	24 l - Ø295 mm - G 3/4"	420 mm	49,38 €	ZC	1
VEARS33	33 l - Ø365 mm - G 3/4"	415 mm	64,66 €	ZC	1
VEARS50	50 l - Ø370 mm - G 3/4" - 1"	625 mm	109,73 €	ZC	1
VEARS60	60 l - Ø415 mm - G 3/4" - 1"	580 mm	126,18 €	ZC	1
VEARS80	80 l - Ø460 mm - G 1"	645 mm	144,80 €	ZC	1
VEARS100	100 l - Ø460 mm - G 1"	765 mm	179,88 €	ZC	1
VEARS150	150 l - Ø500 mm - G 1"	800 mm	300,96 €	ZC	1
VEARS200	200 l - Ø600 mm - G 1"	912 mm	414,60 €	ZC	1
VEARS300	300 l - Ø650 mm - G 1"	1.110 mm	564,70 €	ZC	1

**RE SOL**


- Resistenza elettrica per integrazione in acciaio inox. Attacco 1"1/2.
- Stainless-steel backing electrical resistance. 1"1/2 connection.
- Résistance électrique pour l'intégration en acier inox. Raccord 1»1/2.
- Elektrischer Widerstand für Integration aus Edelstahl mit 1"1/2 Anschluss.
- Resistencia eléctrica para integración de acero inoxidable. Conexión 1"1/2.

Code	Size	Price	Class	Packaging
REM1	1,5 kW - 230 V - Single-phase	On request	Z5	1
REM3	3 kW - 230 V - Single-phase	On request	Z5	1
RET3	3 kW - 400 V - 3-phase	On request	Z5	1
RET4	4,5 kW - 400 V - 3-phase	On request	Z5	1
RET6	6 kW - 400 V - 3-phase	On request	Z5	1
RET7	7,5 kW - 400 V - 3-phase	On request	Z5	1
RET9	9 kW - 400 V - 3-phase	On request	Z5	1

# MIXING VALVES FOR HIGH FLOW CAPACITY

The 3-way axial mixing valve (DN 32) is designed to mix hot and cold water in systems with high flow rates. In fact, its carefully designed internal geometry makes it possible to achieve extremely high flow rates, with a nearly 13 Kv value. This characteristic makes this type of valve suitable for various applications, including:

- the adjustment of the temperature in the primary branch of an instant domestic water heater connected to a solar battery (fig. 1);
- the reduction of the temperature of the fluid returning to the boiler (fig. 2).

Equipped with a thermostatic head screw, it is designed for both fixed point adjustment by means of a thermostatic actuator and climate control by means of an axial servomotor.

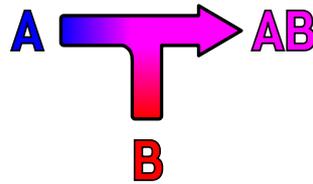


Fig. 1

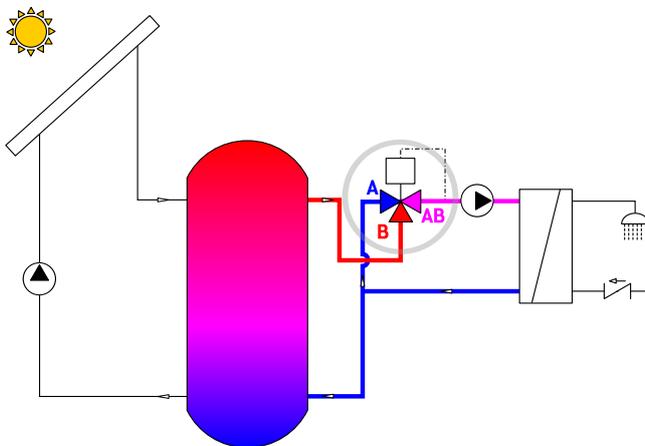
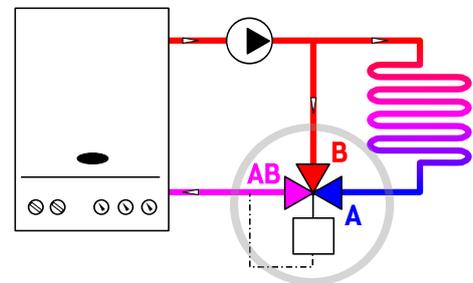


Fig. 2



## MR 22



- Valvola miscelatrice assiale termostattizzabile per elevate portate con attacco femmina.
- Thermostatic axial mixing valve for high flow capacity with female connection.
- Vanne mélangeuse axiale thermostatisable pour débit élevé avec embout femelle.
- Axial Thermostat-Mischventil für erhöhte Durchfluss mit IG Anschluß.
- Válvula mezcladora axiale termostattizable para caudales elevados con conexión hembra.

Code	Size	Price	Class	Packaging
501578	DN 32	159,85 €	PA	1 / 12

## MR 32



- Valvola miscelatrice assiale termostattizzabile per elevate portate con bocchettoni a tenuta morbida.
- Thermostatic axial mixing valve for high flow capacity with soft seal fittings.
- Vanne mélangeuse axiale thermostatisable pour débit élevé avec goulottes à étanchéité souple.
- Axial Thermostat-Mischventil für erhöhte Durchfluss mit Stutzen mit O-Ring.
- Válvula mezcladora axiale termostattizable para caudales elevados con manguito de unión con junta blanda

Code	Size	Price	Class	Packaging
501579	DN 32	221,58 €	PA	1 / 8



• T 5011 >> p. 278,282



• T 5012 >> p. 278



• TE 3061 >> p. 279,283,421



• RV 01 >> p. 279,283,294,373,422,460

# THERMOSTATIC MIXING VALVES

The valves in this section are piston mixers controlled by an external thermostatic actuator, equipped with a remote probe (T 5011 / T 5012,) or motorized for modulating regulation by means of RV 01 motors or TE 3061 electrothermal actuator. The only difference between MR 02 and MR 03 is the position of the ways (+; -; MIX) making easier their use in several situations. MR 01, instead, is specially constructed for specific use in mixing systems for radiant systems. In these cases, its function is not precisely that of a mixer but substantially that of a 2-way thermostatic valve with open bypass on return from the radiant circuit. The flow inlet in this bypass is adjusted by means of AC 662 (see FLOORMIX).

## MR 01



- Valvola miscelatrice termostattizzabile a miscelazione laterale e terza via in bypass.
- Thermostatic mixing valves with lateral mixer and bypass in the 3rd way
- Vanne mélangeuse thermostatisable à mélange latéral et troisième voie en bypass
- Regelbares Thermostat-Mischventil mit seitlicher Mischung und drittem Bypass-Weg
- Válvula mezcladora termostattizable con mezclado lateral y tercera vía en bypass.

Code	Kv	Size	Price	Class	Packaging
501420	3.30	1" F x 1" F x 1" F	50,68 €	PA	2 / 32

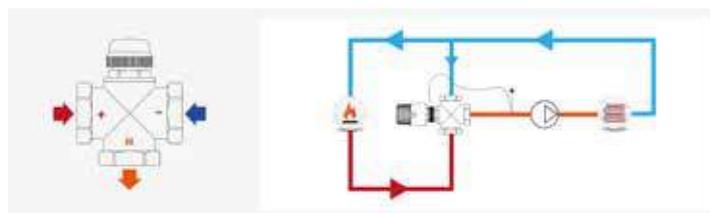


## MR 02



- Valvola miscelatrice termostattizzabile con miscelazione sulla terza via.
- Thermostatic mixing valves with mixer in the 3rd way
- Vanne mélangeuse thermostatisable avec mélange sur la troisième voie
- Thermostat-Mischventil mit Mischung im dritten Weg
- Válvula mezcladora termostattizable con mezclado en la tercera vía.

Code	Kv	Size	Price	Class	Packaging
501421	3	1" F x 1" F x 1" F	50,68 €	PA	2 / 32

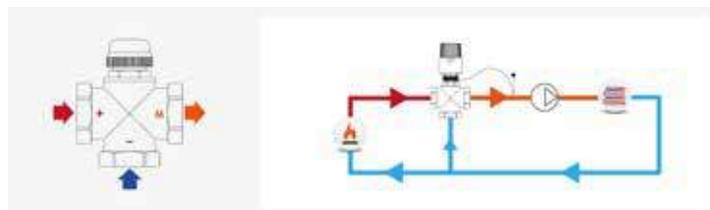


## MR 03



- Valvola miscelatrice termostattizzabile con miscelazione laterale.
- Thermostatic mixing valves with lateral mixer
- Vanne mélangeuse thermostatisable avec mélange latéral
- Thermostat-Mischventil mit seitlicher Mischung
- Válvula mezcladora termostattizable con mezclado lateral.

Code	Kv	Size	Price	Class	Packaging
501422	2.70	1" F x 1" F x 1" F	50,68 €	PA	2 / 32



# ROTOR MIXING VALVES

## SECTOR MIXER VALVES

The sector mixing valves are used in heating/cooling systems in classic mixing and distribution applications. Control of these valves is along a 90° rotation stroke, and can be performed manually or automatically by applying a suitable servomotor.

### Three-way valves

The 3-way valve (Figures 1 a-b-c) features a shutter, which on opening of an inlet activates closing of the other, and vice versa. Both ways are thus dynamically controlled.

With respect to the mixing by means of a 2-way valve, the 3-way valve offers the option of automatic closure of one or the other way, adapting to the characteristics of the generator and the system load.

### 4-way valves

The 4-way valves (Figures 2 a-b-c) enable not only mixing of the flow distributed to utilities, but also the return to the boiler. This enables a higher temperature on return to the boiler, extending the useful lifetime of certain types of boiler: on older conventional generators, indeed, a low return temperature can cause damage; water vapour condensate, due to a cool return, is also accompanied by a series of chemical products that make the condensate acidic, which is corrosive to materials used to make traditional boilers.

On the contrary, in the case of modern condensing boilers, the need for a cool return to exploit the water vapour condensate in the flue and thus improve performance of the generator would make the use of 3-way valves ideal (Figure 3a).

With 4-way valves, two pumps need to be installed to obtain mixing on the return line (Figure 3b).

### Materials

Valve body: CW617N (for sizes up to 1 1/4" BSP); CB753S (for 1 1/2" and 2" BSP)

Rotor and other components in brass: CW617N

Parts in rubber: peroxide EPDM

### Technical specifications

Max. fluid temperature inside valve: 120 °C

Maximum operating pressure: 10 bar

Min. actuation torque: 1 N·m

Leakage percentage: 0.5 % of Kvs

## PLUS

- Minimal risk of sticking between rotor and body in the event of extended inactivity
- Much lower weight and reduced dimensions in proportion to strength compared to traditional valves in cast iron
- Seal on rotor piston ensured by 2 large section O-rings
- External O-ring easily replaced when necessary
- Plate with graduated scale, easily removable and rotated to adapt travel to selected configuration of inputs/outputs
- Different Kv values for the same size, to enable more targeted use according to system requirements

**FOCUS: Three- and four-way mixing**

**Three-way valves**

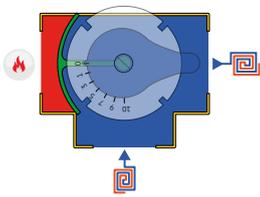


Figure 1 (a)

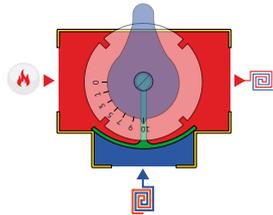


Figure 1 (b)

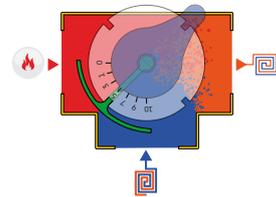


Figure 1 (c)

**4-way valves**

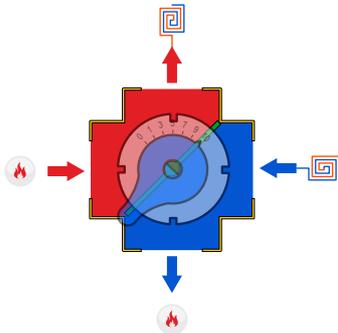


Figure 2 (a)

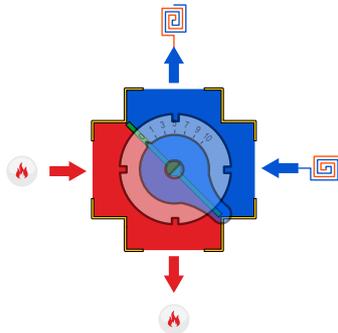


Figure 2 (b)

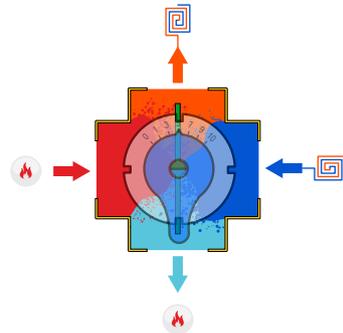


Figure 2 (c)

Diagram of 4-way mixing valve completely open (a), completely closed (b) and in intermediate position (c)

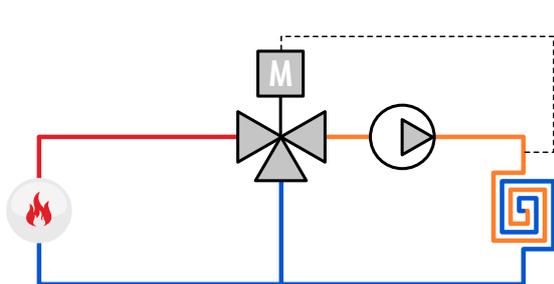


Figure 3 (a)  
Circuit with 3-way valve: one pump is sufficient.

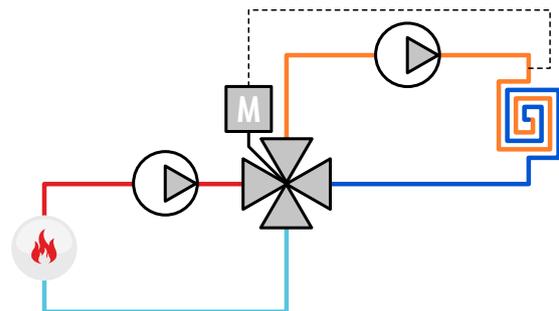


Figure 3 (b)  
Circuit with 4-way valve: 2 pumps are required.

**MIX 3W**



- Valvola miscelatrice a settore a 3 vie.
- 3-way rotor mixing valve.
- Vanne mélangeuse à rotor à 3 voies.
- 3-Wege Rotor-Mischventil.
- Válvula mezcladora de rotor de 3 vías.

Code	Kv	Size	Price	Class	Packaging
501547	4	3/4"	46,28 €	PA	1 / 16
501548	6	3/4"	46,28 €	PA	1 / 16
501549	8	3/4"	46,28 €	PA	1 / 16
501550	8	1"	41,04 €	PA	1 / 16
501551	12	1"	41,04 €	PA	1 / 16
501552	12	1"1/4	45,45 €	PA	1 / 16
501553	18	1"1/4	45,45 €	PA	1 / 16
501564	28	1"1/2	131,72 €	PA	1 / 6
501565	44	2"	131,72 €	PA	1 / 6

**MIX 4W**



- Valvola miscelatrice a settore a 4 vie.
- 4-way rotor mixing valve.
- Vanne mélangeuse à rotor à 4 voies.
- 4-Wege Rotor-Mischventil.
- Válvula mezcladora de rotor de 4 vías.

Code	Kv	Size	Price	Class	Packaging
501554	4	3/4"	49,40 €	PA	1 / 16
501555	6	3/4"	49,40 €	PA	1 / 16
501556	8	3/4"	49,40 €	PA	1 / 16
501557	8	1"	44,10 €	PA	1 / 16
501558	12	1"	44,10 €	PA	1 / 16
501559	12	1"1/4	48,16 €	PA	1 / 16
501560	18	1"1/4	48,16 €	PA	1 / 16
501562	28	1"1/2	143,00 €	PA	1 / 6
501563	44	2"	143,00 €	PA	1 / 6

**AMIX 01**



- Manopola blu con vite per valvole miscelatrici a settore.
- Blu hand knob with screw for rotor mixing valves.
- Poignée bleue avec vis pour vannes mélangeuses à rotor.
- Blauer Drehknopf mit Schraube für Rotor-Mischventile.
- Mando azul con tornillo para válvulas mezcladoras de rotor.

Code	Price	Class	Packaging
501570	1,57 €	PC	1

**M 106**


- **Servomotore per valvole miscelatrici a settore.**
- *Motor for rotor mixing valves.*
- **Servomoteur pour vannes mélangeuses à rotor.**
- *Stellantrieb für Rotor-Mischventile.*
- **Servomotor para válvulas mezcladoras de rotor.**

Code	Size	Price	Class	Packaging
501394	3-point regulation (230 V AC)	129,35 €	PC	1 / 8
501395	Proportional 0-10 V (24 V AC)	261,08 €	PC	8
501396	3-point regulation (24 V AC)	154,91 €	PC	10

**CTC 20**


- **Attuatore rotativo con regolatore e sonde incorporati per il controllo a punto fisso delle valvole miscelatrici.**
- *Revolving actuator with incorporated regulator and probes for fixed point control of mixing valves.*
- **Actionneur rotatif avec régulateur et sondes incorporés pour le contrôle à point fixe des vannes mélangeuses.**
- *Drehbar Stellantrieb mit eingebauter Regler und Fühler für festwert Bedingung der Mischventile.*
- **Actuador rotativo con regulador y sondas incorporados para el control a punto fijo de las válvulas mezcladoras.**

Code	Size	Price	Class	Packaging
501648	230 V AC	369,42 €	PC	1

**CC 25**


- **Attuatore rotativo con regolatore e sonde incorporati per controllo climatico delle valvole miscelatrici.**
- *Revolving actuator with incorporated regulator and probes for climatic control of mixing valves.*
- **Actionneur rotatif avec régulateur et sondes incorporés pour le contrôle climatique des vannes mélangeuses.**
- *Drehbar Stellantrieb mit eingebauten Regler und Fühler für klimatisch Bedingung der Mischventile.*
- **Actuador rotativo con regulador y sondas incorporados para el control climático de las válvulas mezcladoras.**

Code	Size	Price	Class	Packaging
501647	230 V AC	734,01 €	PC	1



# SAFETY VALVES

## SAFETY VALVES FOR HEATING APPLICATIONS

Safety valves are overpressure control devices which, when they reach the calibration value, drain fluid to prevent dangerous operating conditions. Suited for use in heating systems (calibration 3 bar), IVAR valves are available with different connection threads and with or without pressure gauge connection.

### VSC 10 H



- Valvola di sicurezza maschio-femmina.
- Male-female safety valve.
- Clapet de sécurité mâle-femelle.
- Sicherheitsventil AG-IG.
- Válvula de seguridad macho-hembra.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702323	1/2" F x 1/2" M	3 bar	■	10,08 €	TG	20 / 160
5702333	3/4" F x 3/4" M	3 bar	■	11,68 €	TG	15 / 120

### VSC 11 H



- Valvola di sicurezza maschio-femmina con attacco per manometro.
- Male-female safety valve with connection for pressure gauge.
- Clapet de sécurité mâle-femelle avec embout pour manomètre.
- Sicherheitsventil AG-IG mit Anschluß für Manometer.
- Válvula de seguridad macho-hembra con conexión para manómetro.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702463	1/2" M x 1/2" F	3 bar	■	11,28 €	TG	20 / 160
5702473	3/4" M x 3/4" F	3 bar	■	12,43 €	TG	15 / 120

### VSC 00 H



- Valvola di sicurezza femmina-femmina.
- Female-female safety valve.
- Clapet de sécurité femelle-femelle.
- Sicherheitsventil IG-IG.
- Válvula de seguridad hembra-hembra.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702303	1/2" F x 1/2" F	3 bar	■	9,92 €	TG	10 / 80
5702313	3/4" F x 3/4" F	3 bar	■	11,65 €	TG	15 / 120

### VSC 01 H



- Valvola di sicurezza femmina-femmina con attacco per manometro.
- Female-female safety valve with connection for pressure gauge.
- Clapet de sécurité femelle-femelle avec embout pour manomètre.
- Sicherheitsventil IG-IG mit Anschluß für Manometer.
- Válvula de seguridad hembra-hembra con conexión para manómetro.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702443	1/2" F x 1/2" F	3 bar	■	11,10 €	TG	20 / 160
5702453	3/4" F x 3/4" F	3 bar	■	12,51 €	TG	15 / 120

**MA 10**


- **Manometro con attacco posteriore.**
- *Pressure gauge with rear connection.*
- **Manomètre avec embout postérieur.**
- *Manometer mit rückwärtigem Anschluss.*
- **Manómetro con conexión posterior.**

Code	Size	Range	Price	Class	Packaging
509160	1/4" M	0-10 bar	8,42 €	TA	3 / 48

**VSC 15 H**


- **Valvola di sicurezza maschio-femmina con manometro.**
- *Male-female safety valve with pressure gauge.*
- **Clapet de sécurité mâle-femelle avec manomètre.**
- *Sicherheitsventil AG-IG mit Manometer.*
- **Válvula de seguridad macho-hembra con manómetro.**

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702363	1/2" M x 1/2" F	3 bar	■	19,71 €	TG	1
5702373	3/4" M x 3/4" F	3 bar	■	20,85 €	TG	1

**VSC 05 H**


- **Valvola di sicurezza femmina-femmina con manometro.**
- *Female-female safety valve with pressure gauge.*
- **Clapet de sécurité femelle-femelle avec manomètre.**
- *Sicherheitsventil IG-IG mit Manometer.*
- **Válvula de seguridad hembra-hembra con manómetro.**

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702343	1/2" F x 1/2" F	3 bar	■	19,52 €	TG	1
5702353	3/4" F x 3/4" F	3 bar	■	20,93 €	TG	1

**CPS 10**


- **Collettore portastrumenti.**
- *Wall mounting manifold.*
- **Collecteur porte-accessoires.**
- *Gefäßanschlussgruppe.*
- **Colector porta-instrumentos.**

Code	Price	Class	Packaging
506068	54,86 €	VA	1

**CPS 20**


- **Collettore portastrumenti con valvola di sicurezza, manometro, valvola di sfiato automatica e valvola a sfera con rubinetto di scarico per intercettazione vasi di espansione.**
- *Assembled wall mounting manifold equipped with safety valve, pressure gauge, automatic air valve and ball valve with drainage valve for expansion tank isolation.*
- **Collecteur porte-accessoires avec clapet de sécurité, manomètre, purgeur d'air automatique et vanne a bille avec robinet de vidange pour l'interception des vases d'expansion.**
- *Gefäßanschlussgruppe mit Sicherheitsventil, Manometer, automatischer Entlüftungsventil und Kappenventil.*
- **Colector porta-instrumentos con válvula de seguridad, manómetro, válvula de purga automática y válvula de bola con válvula de descarga para la interceptación de los vasos de expansión.**

Code	Price	Class	Packaging
506069	152,15 €	VA	1

# AUTOMATIC FILLING GROUPS

Pressure drops may occur on heating systems, normally following an automatic air purge when fitted with air purge valves or after manually bleeding radiators. To ensure optimal system operation, it is obviously necessary to restore normal operating pressure values by recharging the circuit with water. Automatic filler units are useful in all these situations, releasing the user from the need to manually restore system pressure.

The IVAR automatic filler unit comprises:

- a pressure reducer with compensated seat;
- pressure gauge;
- shutoff valve;
- filter;
- non-return valve.

Once the required system pressure is reached, the filler unit automatically closes. The shutoff valve enables closure of the water supply, which is cleaned by means of the filter, and the non-return valve prevents heating circuit water from returning to the drinking water piping. IVAR filler units must be installed according to the direction of flow indicated on the device.

## Materials

Body, diaphragm and other internal parts: CW617N brass

O-ring: NBR

Flat seals: asbestos-free seal materials

Plastic parts: PA66

## Technical specifications

Maximum operating temperature: 80 °C

Max. inlet pressure: 16 bar

Outlet pressure adjustment range: 0.5-4 bar

Factory settings: 1.5 bar

## GA 00



- Gruppo di alimentazione automatico tarabile con manometro completo di rubinetto di intercettazione, filtro e valvola di non ritorno; funzionamento a pistone.
- Automatic filling group with pressure gauge complete with isolation, filter and non-return check valve; piston operation.
- Groupe d'alimentation automatique avec manomètre doté de robinet d'interception, filtre et vanne de non retour; fonctionnement à piston.
- Hauswasserstation mit Manometer, komplett mit Absperrventil, Filter und Rückschlagventil; Kolbenbetrieb.
- Grupo de alimentación automático con manómetro completo de grifo de interceptación, filtro y válvula de retención; operación de pistón.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Price	Class	Packaging
509000	1/2" M x 1/2" F	0,5 - 4 bar	16 bar	1.50 bar	80 °C	46,83 €	TG	1 / 4

# BYPASS VALVES

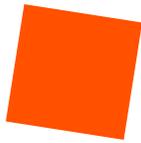
## AC 623 N



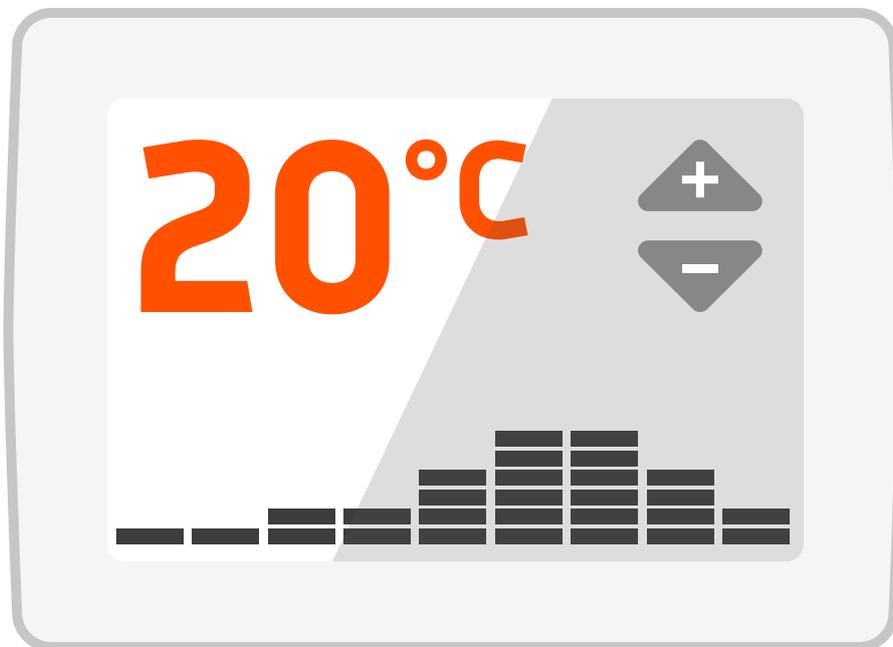
- Valvola di bypass differenziale diritta/squadra per elevate portate.
- Bypass differential valve straight/angled for high flow capacity.
- Vanne de by-pass différentielle droite/équerre pour débit élevé.
- Differenziales Bypass-Ventil Durchgangsform/Eckform für erhöhte Durchfluss.
- Válvula de bypass diferencial recta/de escuadra para capacidades elevadas.

Code	Size	Range	Price	Class	Packaging
500389N	3/4" F x 3/4" M	0,2-0,6 bar	38,39 €	TG	5 / 40
5003891N	3/4" F x 1" M	0,2-0,6 bar	39,55 €	TG	5 / 40





# REGULATION AND CONTROL



[pim.ivar-group.com/short/IT-06](https://pim.ivar-group.com/short/IT-06)



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Focus tecnici



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[pim.ivar-group.com/short/ES-06](https://pim.ivar-group.com/short/ES-06)



**DOWNLOAD**  
Profundizaciones técnicas

	<p><b>CUBODOMO® - Sistema di termoregolazione WiFi per dispositivi smart</b>  <i>CUBODOMO® - WiFi temperature regulation system for smart devices</i>  <b>CUBODOMO® - Système de thermorégulation WiFi pour dispositifs smart</b>  <i>CUBODOMO® - WiFi Wärmeregulierung System für Smartvorrichtungen</i>  <b>CUBODOMO® - Sistema de termorregulación WiFi para dispositivos smart</b></p>	407
	<p><b>CLIMA•HUB - Regolatore elettronico per compensazione climatica</b>  <i>CLIMA•HUB - Electronic controller for weather compensation</i>  <b>CLIMA•HUB - Régulateur électronique pour la compensation climatique</b>  <i>CLIMA•HUB - Elektronischer Regler zur Klimakompensation</i>  <b>CLIMA•HUB - Regulador electrónico para compensación climática</b></p>	413
	<p><b>CLIMA•HUB - Regolatore elettronico per compensazione climatica</b>  <i>CLIMA•HUB - Electronic controller for weather compensation</i>  <b>CLIMA•HUB - Régulateur électronique pour la compensation climatique</b>  <i>CLIMA•HUB - Elektronischer Regler zur Klimakompensation</i>  <b>CLIMA•HUB - Regulador electrónico para compensación climática</b></p>	416
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	<p><b>Teste elettrotermiche</b>  <i>Electrothermal heads</i>  <b>Têtes électrothermiques</b>  <i>Elektrothermische Stellantriebe</i>  <b>Cabezas electrotérmicas</b></p>	420
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# CUBODOMO®

Cubodomo is a flexible and modular system able to adjust temperature remotely in all house zones, turning smartphones and tablets into a multizone timed thermostat. The system is made up of the following elements:

- Starter pack (cube + probe with relay)
- sensors with relay (with actuator function)
- sensors without relay
- actuators
- wiring center

The Starter pack, consisting of a cube and a relay sensor, is the basic configuration and replaces the classic timed thermostat. The sensor with relay measures room temperature, while the cube manages the heating system via the smart settings of MyCubodomo App. To create a more efficient system and a more comfortable environment, it is possible to integrate the starter pack with the other devices of the system.

## Example of CUBODOMO system application



### List of CUBODOMO components

N.	Code	Item	Quantity
1	506063	CUB 01	1
2	506066	ACB 10	1
3	506029	ACB 00	2
4	506062	AS 1010 C	1



Manages time zones  
24 hours a day, 7 days-a-week.  
quickly and easily.



Independent comfort and eco  
setpoints for each zone



Remote control for perfect home  
comfort.

### STARTER PACK: Cube



Power supply included



Radio transmission frequency 868 Mhz



Wi-Fi connection



This is the "system intelligence" and contains all settings entered by the user.



Communicates with smartphones and tablets with the built-in Wi-Fi module.



Interacts with all elements of the wireless system.

### STARTER PACK: Master sensor with relay



Temperature sensor



Radio transmission frequency 868 Mhz



Batteries included



Also suitable for the management of RADIANT SYSTEMS



Relay to turn on boiler or for zone valve management



The sensor supplied in the Starter Pack controls boiler ignition or opening of zone valves, thanks to its internal relay.



Precise measurement of effective room temperature; replaces old home thermostat



Wireless communication with the cube.

#### ■ CUB 01



AA INCLUDED

- Starter pack per sistema CUBODOMO®, composto da cubo e sonda di temperatura wireless con contatto caldaia e placca ACB 05.
- Starter pack for CUBODOMO® system, consisting of cube and wireless temperature sensor with boiler contact and ACB 05 cover plate.
- Starter pack pour système CUBODOMO®, composé du cube et capteur de température sans fil avec contact chaudière et plaque ACB 05.
- Starter Pack für System CUBODOMO® besteht aus Kubus und Wireless-Temperaturfühler mit Heizkesselkontakt und Abdeckplatte ACB 05.
- Starter pack para sistema CUBODOMO®, compuesto de cubo y sensor de temperatura wireless con contacto caldera y placa ACB 05.

Code	Size	Price	Class	Packaging
506063	5 V AC - 2 x AA 1,5 V battery	193,00 €	VE	1

## ACTUATORS



- Can be installed on all valves with thermostat option with M30x1.5 fitting
- Radio transmission frequency 868 Mhz
- Batteries included
- Optimised proximity temperature sensor and prompt control of set point.



These enable perfect temperature control of each radiator fitted with a thermostatic valve.



They ensure the option of controlling the temperature in each room.



The cube can manage up to 28 devices between actuators and sensors

### AS 1010 C



AA INCLUDED

- **Servomotore assiale per valvola termostattizzabile, compatibile con sistema CUBODOMO.**
- *Axial motor for thermostatic valve, suitable for CUBODOMO system.*
- **Servomoteur axial pour robinet thermostatisable, adapté pour le système CUBODOMO.**
- *Axial-Stellantrieb für Thermostatventil, geeignet für System CUBODOMO.*
- **Servomotor axial para válvula termostatizable, adecuado para el sistema CUBODOMO.**

Code	Size	Price	Class	Packaging
506062	M30 x 1,5 - 3 x AA 1,5 V battery	68,00 €	VE	1

### AGE 17



- **Adattatore teste termostatiche / valvole DANFOSS.**
- *Thermostatic heads / DANFOSS valves adapter.*
- **Adaptateur têtes thermostatiques / robinets DANFOSS.**
- *Adapter für Thermostatköpfe / Ventile DANFOSS.*
- **Adaptador cabezas termostáticas / válvulas DANFOSS.**

Code	Price	Class	Packaging
560001	9,41 €	VE	40 / 320

## RELAY SENSOR (with ACTUATOR function)



- Temperature sensor
- Radio transmission frequency 868 Mhz
- Batteries included
- Also suitable for MULTI-ZONE RADIANT SYSTEMS
- Relay to turn on boiler or for zone valve management



All the timed-thermostats can be replaced with additional relay actuators, to control the temperature of each zone, even with radiant systems.



They measure the actual room temperature accurately.



Wireless communication with the cube.

### ■ ACB 07



AA INCLUDED

- Sonda di temperatura wireless aggiuntiva con contatto relé.
- Additional wireless temperature sensor with relay contact.
- Capteur de température sans fil supplémentaire avec contact relais.
- Zusätzlicher Wireless-Temperaturfühler mit Relaiskontakt.
- Sensor de temperatura wireless adicional con contacto relé.

Code	Size	Price	Class	Packaging
506073	2 x AA 1,5 V battery	99,00 €	VE	1

### ■ ACB 05



- Placca di copertura per montaggio sonda di temperatura su scatola elettrica 503 E.
- Cover plate for temperature sensor installation on 503 E electrical box.
- Plaque de couverture pour le montage du capteur de température sur la boîte électrique 503 E.
- Abdeckplatte für die Befestigung des Ersatztemperaturfühlers am Schaltkasten 503 E.
- Placa de cobertura para el montaje del sensor de temperatura sobre la caja eléctrica 503 E.

Code	Size	Price	Class	Packaging
506070	503 E	19,90 €	VE	100

## SENSORS WITHOUT RELAY



Temperature sensor



Radio transmission frequency 868 Mhz



Batteries included



NO Relay



Additional sensors (without on-board relay) can be installed in each room for more efficient measurement of room temperatures.



They measure the actual room temperature accurately, unlike systems that measure the temperature close to the radiator.



Wireless communication with the cube.

### ACB 00



AA INCLUDED

- Sonda di temperatura wireless aggiuntiva.
- Additional wireless temperature sensor.
- Capteur de température sans fil supplémentaire.
- Zusätzlicher Wireless-Temperaturfühler.
- Sensor de temperatura wireless adicional.

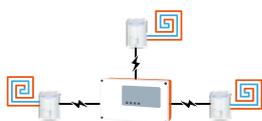
Code	Size	Price	Class	Packaging
506029	2 x AA 1,5 V battery	52,00 €	VE	1



## WIRING CENTER



- Diagnostics, heads, pump relay and boiler relay ON/OFF
- Radio transmission frequency 868 Mhz
- 230V power supply for control of the two-wire electrothermal heads
- Ideal for **MULTI-ZONE RADIANT SYSTEMS**
- Two relays with contacts for zone valve or circulator and boiler request control



Manages the opening or closing of the circuits of a radiant system thanks to the use of 2-wire 230 V electrothermic heads.



By communicating with the cube and with the assistance of temperature probes, it is able to regulate the temperature in every single room.



Transforms a single zone radiant system into a multi-zone system (up to 8 zones per board).

### ACB 10



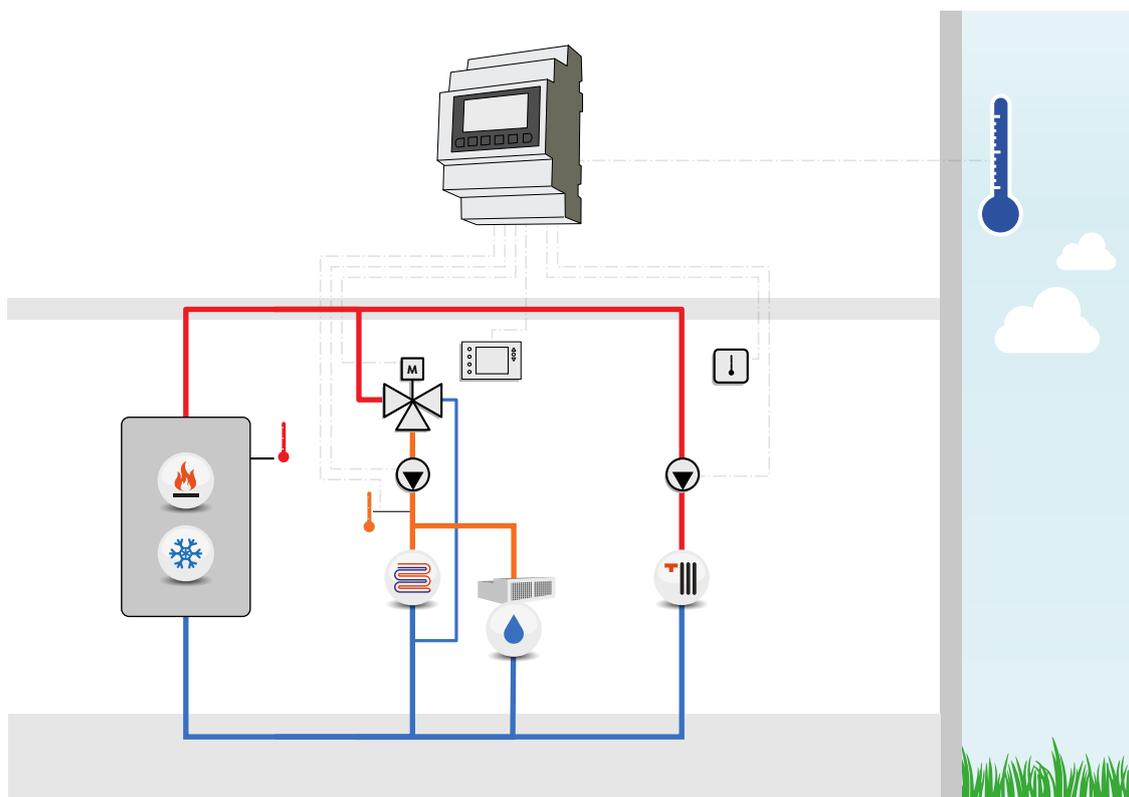
- **Wiring center per regolazione di impianti radianti (max 8 zone).**
- *Wiring center for radiant systems adjustment (max 8 zones).*
- **Wiring center pour le réglage des systèmes radiants (max 8 zones).**
- *Wiring center für die Einstellung von Fußbodenheizungssysteme (max 8 Zonen).*
- **Wiring center para el ajuste de los sistemas radiantés (máximo 8 zonas).**

Code	Size	Price	Class	Packaging
506066	230 V AC	472,59 €	VA	1

CLIMA-HUB 01 electronic controller for heating/cooling allows the management of.

- 1 mixed circuit controlled by temperature/humidity probe
- 1 direct circuit controlled by On / Off room thermostats
- 1 dehumidification circuit.

The mixing valves are controlled by a **0-10 V proportional** voltage signal according to a setpoint which can be fixed or variable, based on a set climatic compensation. It is possible to connect a pump output for each circuit and provide the connection of a safety thermostat and a zone valve for the mixed circuit.



## CLIMA-HUB 01



- **Regolatore climatico (riscaldamento/raffrescamento) completo di sonda esterna e una sonda di mandata.**
- *Climatic regulator (heating/cooling) complete with external probe and delivery probe.*
- **Régulateur climatique (chauffage/refroidissement) avec sonde externe et sonde de refluxement.**
- *Temperaturregler (Heizen/Kühlen) komplett mit Außen- und Vorlauffühler.*
- **Regulador climático (calefacción/refrigeración) con sonda externa y sonda de impulso.**

Code	Size	Module	Price	Class	Packaging
CHUB01	24 V AC - 20/40 V DC	4 DIN modules	783,75 €	VA	1

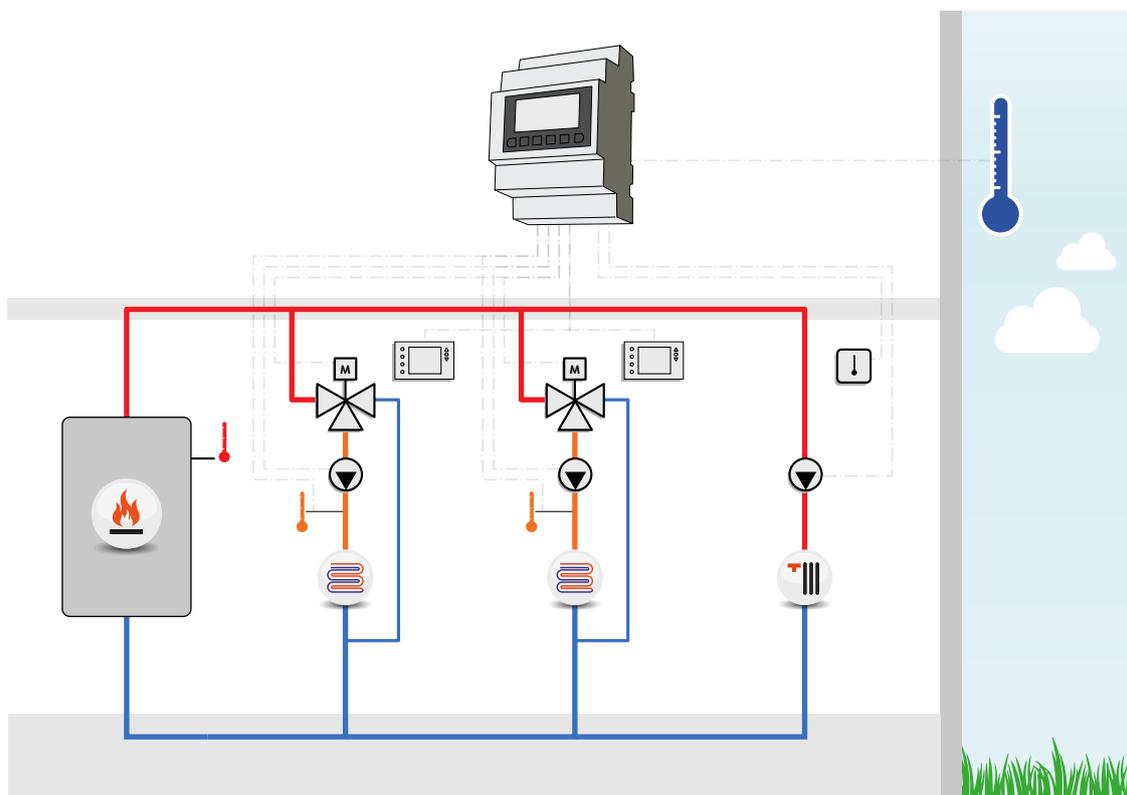


- Sonda cieca di temperatura/umidità per regolatore CLIMA-HUB >>p. 340
- Blind temperature/humidity probe for CLIMA-HUB regulator >>p. 340
- Capteur aveugle de température / humidité pour régulateur CLIMA-HUB >>p. 340
- Blind Temperatur- und Feuchtigkeitssensor für Steuereinheit CLIMA-HUB >>p. 340
- Sensor ciego de temperatura / humedad para regulador CLIMA-HUB >>p. 340

CLIMA-HUB 02 electronic controller for heating only allows the management of.

- 2 mixed circuits controlled by On / Off room thermostats
- 1 direct circuit controlled by On / Off room thermostats.

The mixing valves are controlled by a **0-10 V proportional** voltage signal according to a setpoint which can be fixed or variable, based on a set climatic compensation. It is possible to connect a pump output for each circuit and provide the connection of a safety thermostat and a zone valve for the 2 mixed circuits.



## CLIMA-HUB 02



- **Regolatore climatico (solo riscaldamento) completo di sonda esterna e due sonde di mandata.**
- *Climatic regulator (heating only) complete with external probe and two delivery probes.*
- **Régulateur climatique (seulement chauffage) avec sonde externe et deux sondes de refoulement.**
- *Temperaturregler (nur Heizung) komplett mit Außen- und zwei Vorlauffühler.*
- **Regulador climático (solo calefacción) con sonda externa y dos sondas de impulso.**

Code	Size	Module	Price	Class	Packaging
CHUB02	24 V AC - 20/40 V DC	4 DIN modules	783,75 €	VA	1

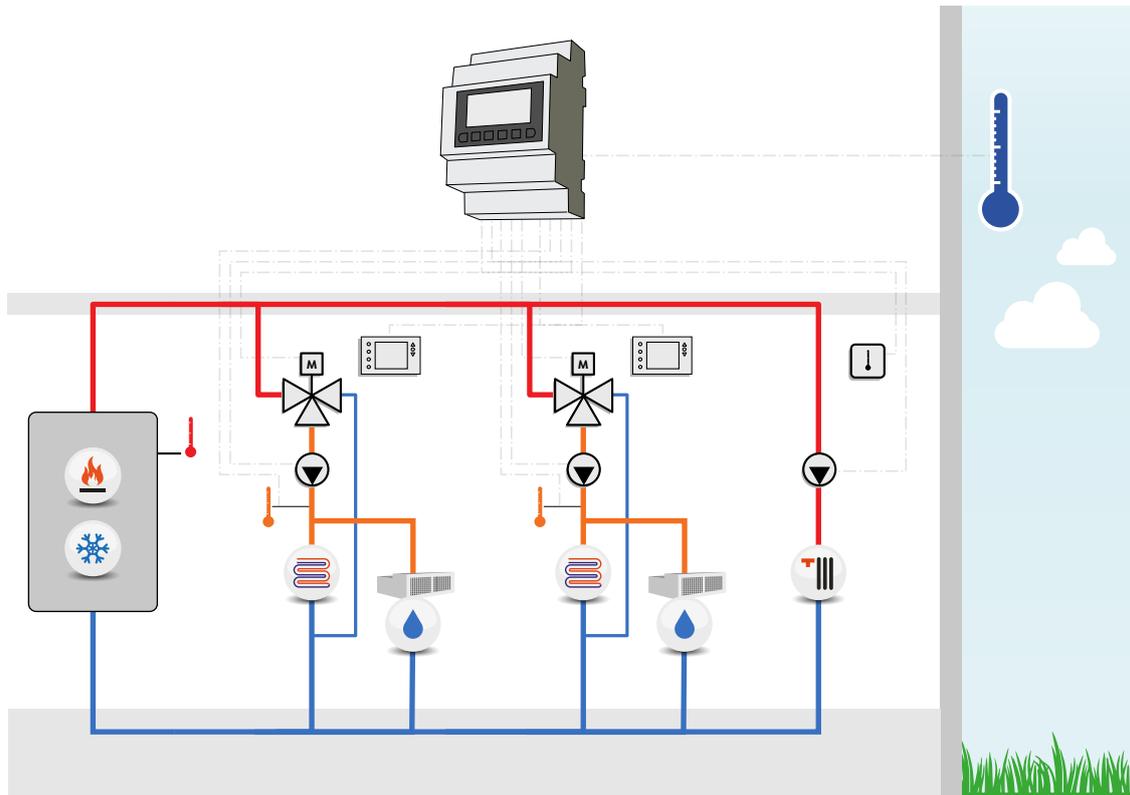


- **Sonda cieca di temperatura/umidità per regolatore CLIMA-HUB >>p. 340**
- *Blind temperature/humidity probe for CLIMA-HUB regulator >>p. 340*
- **Capteur aveugle de température / humidité pour régulateur CLIMA-HUB >>p. 340**
- *Blind Temperatur- und Feuchtigkeitssensor für Steuereinheit CLIMA-HUB >>p. 340*
- **Sensor ciego de temperatura / humedad para regulador CLIMA-HUB >>p. 340**

CLIMA-HUB 03 electronic controller for heating/cooling allows the management of.

- 2 mixed circuits controlled by temperature/humidity probes
- 1 direct circuit controlled by On / Off room thermostats
- 2 dehumidification circuits.

The mixing valves are controlled by a **0-10 V proportional** voltage signal according to a setpoint which can be fixed or variable, based on a set climatic compensation. It is possible to connect a pump output for each circuit and provide the connection of a safety thermostat and a zone valve for the mixed circuit.



### CLIMA-HUB 03



- **Regolatore climatico (riscaldamento/raffrescamento) completo di sonda esterna e due sonde di mandata.**
- *Climatic regulator (heating/cooling) complete with external probe and two delivery probes.*
- **Régulateur climatique (chauffage/refroidissement) avec sonde externe et deux sondes de refoulement.**
- *Temperaturregler (Heizen/Kühlen) komplett mit Außen- und zwei Vorlauffühler.*
- **Regulador climático (calefacción/refrigeración) con sonda externa y dos sondas de impulso.**

Code	Size	Module	Price	Class	Packaging
CHUB03	24 V AC - 20/40 V DC	8 DIN modules	930,05 €	VA	1



- **Sonda cieca di temperatura/umidità per regolatore CLIMA-HUB >>p. 340**
- *Blind temperature/humidity probe for CLIMA-HUB regulator >>p. 340*
- **Capteur aveugle de température / humidité pour régulateur CLIMA-HUB >>p. 340**
- *Blind Temperatur- und Feuchtigkeitssensor für Steuereinheit CLIMA-HUB >>p. 340*
- **Sensor ciego de temperatura / humedad para regulador CLIMA-HUB >>p. 340**

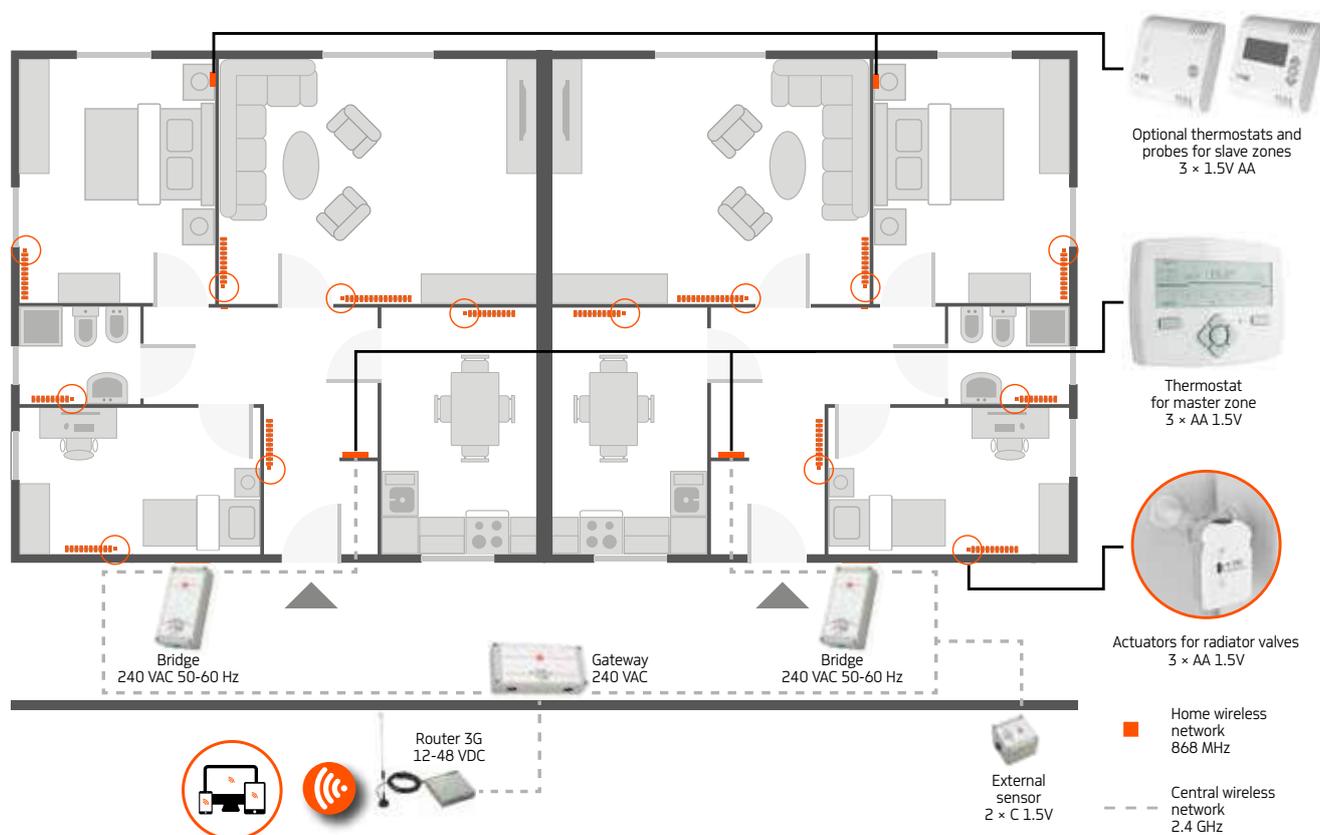
# EQUICALOR•LINK

EQUICALOR-LINK is a system that allows users to independently control the temperature of individual rooms, perform indirect heat metering (per Italian standard UNI 9019) and the distribution of costs based on actual consumption, offering administrators and heat managers the tools necessary to gather and process data.

The system is based on the interaction between the home networks and the data centralisation backbone.

- **Home network** (temperature control and heat metering), comprising:
  - actuators mounted directly on thermostatic valves;
  - timer-thermostat that communicates with the actuators by radio;
  - any wireless probes and/or thermostats installed in the individual zones for better room temperature readings and comfort optimisation.
- **Centralisation network:** a backbone of devices (bridges) that receive data from the periphery (home network) and allow it to be stored on the gateway, covering up to 100 user components. By accessing the gateway, the collected data can be downloaded.

EQUICALOR-LINK, also an ideal solution for managing the heating in public buildings such as schools, nursery schools, municipal administrations etc. The system allows a network of devices to be built up, which can be easily controlled remotely or from a local control station that communicates with the gateway.



## **+** PLUS

- **Multi-zone system: customised comfort in every area**
- **Wireless communication among devices**
- **Remote control via software and web manager**
- **Advanced energy-saving management functions**
- **Intuitive multilingual menu with guided configuration**
- **Ideal for climate control in public buildings**

## Home network



**DC 1020 / DC 1030**

### Master thermostat

- Temperature settings
- Consumption display
- Max 8 zones (32 actuators)
- Electronic tamper-proofing
- Available with/without boiler contact



**AS 1010**

### Actuators

- Automatic control
- Consumption meter
- Temperature sensor for proximity compensation to radiator
- Mechanical tamper-proofing



**AE 1010**

**AE 1020**

### Room thermostats

- Temperature measurement, control and display in slave zones
- Also available in a blind version



**DE 1010**

### Bridge

Home network / centralisation network interface



**DE 1020**

### External sensor

Outdoor temperature and humidity readings



**DE 1000**

### Gateway

- Consumption data archiving
- Access from/to the outside



**DE 1030**

### 3G Router

Remote connections



### For the user: the WEB manager

Web manager is a tool that allows the user to remotely switch the system on and off and to temporarily schedule time and temperature. All of this is accessible from a web page on any PC, smartphone or tablet.



### For specialised personnel: Software Service

Software Service is an application dedicated exclusively to specialised technicians, heating managers and administrators, which provides for the creation of a wireless backbone for diagnostics and remote access to the gateway for data download and programming.

For quotations, system configuration and more information, please contact

**LINEA ARANCIO**  
**TECHNICAL SUPPORT**  
[linea.arancio@ivar.it](mailto:linea.arancio@ivar.it)

# THERMOSTATS

IVAR offers a complete range of digital thermostats and timed thermostats for regulation of individual environments, characterised especially for their intuitiveness in use.

The line of AC 701 thermostats is available in the variant for heating only (or cooling only) applications with the simple battery power supply and incremental buttons for changing the temperature setting. They are also available in versions with the same thermostat complete with ON/OFF button (AC 701A) or the 230 VAC powered version which also works in hot/cold mode (AC 701B).

IVAR also proposes two timed thermostats AC 710 (for heating only) and AC 711 (for hot/cold) with backlit display and possibility of programming on/off time slots during the day/week. AC 711 also has three outlets to change the speed of a fancoil.

IVAR's range of regulation and control devices is further extended with the JUSTO timer thermostat and JUSTO LITE thermostat. JUSTO provides hourly scheduling for every day of the week in 30 minute slots. The device offers both on/off and PWM operation. In PWM mode, it is able to reduce activation times by also taking thermal inertia into account, thus obtaining a more stable ambient temperature which is less susceptible to oscillations and offers greater comfort and energy savings.

JUSTO LITE, on the other hand, is an on/off thermostat for heating/cooling.



**MINIMAL**  
and **ELEGANT DESIGN.**

Able to operate in **PWM MODE:**  
pulse width modulation mode, to achieve an ambient temperature which is more stable and less subject to oscillations, and therefore **MORE COMFORTABLE** with **LOWER ENERGY USE.**

**COLD/HOT OPERATION WITH PROGRAMMING** of each day of the week.

Backlit **E-INK DISPLAY.**

## JUSTO



- Cronotermostato digitale ON/OFF o PWM (riscaldamento/raffrescamento).
- Digital timed thermostat ON/OFF or PWM (heating/cooling).
- Chronothermostat digital ON/OFF ou PWM (chauffage/refroidissement).
- Digitaler Chrono-Thermostat ON/OFF oder PWM (Heizung/Kühlung).
- Cronotermostato digital ON/OFF o PWM (calefacción/enfriamiento).

Code	Size	Price	Class	Packaging
580021	Battery	117,56 €	VA	1

## JUSTO LITE



- Termostato digitale ON/OFF (riscaldamento/raffrescamento).
- Digital thermostat ON/OFF (heating/cooling).
- Thermostat digital ON/OFF (chauffage/refroidissement).
- Digitales Thermostat ON/OFF (Heizung/Kühlung).
- Termostato digital ON/OFF (calefacción/enfriamiento).

Code	Size	Price	Class	Packaging
580010	Battery	68,45 €	VA	1

**AC 711**


- Cronotermostato digitale (riscaldamento/raffrescamento) con switch estate/inverno.
- Digital timed thermostat (heating/cooling) with summer/winter switch.
- Chronothermostat digital (chauffage/refroidissement) avec switch été/hiver.
- Digitaler Chrono-Thermostat (Heizung/Kühlung) mit Sommer/Winter Schaltung.
- Cronotermostato digital (calefacción/enfriamiento) con switch Verano/Invierno.

Code	Size	Price	Class	Packaging
580015	230 V AC	103,14 €	VA	1

**AC 701 B**


- Termostato (riscaldamento/raffrescamento).
- Thermostat (heating/cooling).
- Thermostat (chauffage/refroidissement).
- Thermostat (Heizung/Kühlung).
- Termostato (calefacción/enfriamiento).

Code	Size	Price	Class	Packaging
580017	230 V AC	45,53 €	VA	1

**AC 710 T**


- Cronotermostato digitale giornaliero/settimanale (solo riscaldamento) con schermo touch.
- Daily/weekly digital timed thermostat (heating only) with touch screen.
- Chronothermostat digital journalier/hebdomadaire (seulement chauffage) avec écran tactile.
- Täglicher/wöchentlicher Digital-Chronothermostat (nur Heizung) mit Touchscreen.
- Cronotermostato digital diario/semanal (solo calefacción) con pantalla táctil.

Code	Size	Price	Class	Packaging
580018	Battery	101,21 €	VA	1

**AC 701 A**


- Termostato (solo riscaldamento) con selettore ON/OFF.
- Thermostat (heating only) with ON/OFF switch.
- Thermostat (chauffage uniquement) avec sélecteur ON/OFF.
- Thermostat (nur Heizung) mit Ein-/Aus-Schalter.
- Termostato (solo calefacción) con selector ON/OFF.

Code	Size	Price	Class	Packaging
580016	Battery	55,96 €	VA	1

**AC 710**


- Cronotermostato digitale giornaliero/settimanale (solo riscaldamento).
- Daily/weekly digital timed thermostat (heating only).
- Chronothermostat digital journalier/hebdomadaire (seulement chauffage).
- Täglicher/wöchentlicher Digital-Chronothermostat (nur Heizung).
- Cronotermostato digital diario/semanal (solo calefacción).

Code	Size	Price	Class	Packaging
580012	Battery	88,10 €	VA	1

**AC 701**


- Termostato digitale (solo riscaldamento).
- Digital thermostat (heating only).
- Thermostat digital (seulement chauffage).
- Digitales Thermostat (nur Heizung).
- Termostato digital (solo calefacción).

Code	Size	Price	Class	Packaging
580011	Battery	55,96 €	VA	1



# ELECTROTHERMAL HEADS

The TE 3040, TE 3050M and TE 3061 heads are equipped with "first open" function, i.e. the brand new actuator is in the normally open state when delivered. This allows the system to be flushed and filled with the heads already installed, even before the electrical wiring. Then, during commissioning, application of the operating voltage (for more than 6 minutes) automatically triggers the "first open" function making the actuator ready for operation. This function is not available for the NO (TE 4040A) versions. All electrothermic heads are equipped with double insulation.

## TE 3040 IV



- Testa elettrotermica normalmente chiusa (2 fili) con logo IVAR. Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 40$  mm.
- Electrothermal head normally closed (2 wires) with IVAR logo. Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 40$  mm.
- Tête électrothermique normalement fermée (2 fils) avec logo IVAR. Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 40$  mm.
- Elektrothermischer Stellantriebe stromlos-zu (2 Kabel) mi IVAR-Logo. Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 40$  mm.
- Cabeza electrotérmica normalmente cerrada (de 2 hilos) con logo IVAR. Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 40$  mm.

Code	Size	Price	Class	Packaging
501508E	M30 x 1,5 ; ON / OFF (230 V AC)	22,92 €	AC	100

## TE 3040



- Testa elettrotermica normalmente chiusa (2 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 50$  mm (no EASY-RADIANT).
- Electrothermal head normally closed (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 50$  mm (no EASY-RADIANT).
- Tête électrothermique normalement fermée (2 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 50$  mm (non EASY-RADIANT).
- Elektrothermischer Stellantriebe stromlos-zu (2 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 50$  mm (keine EASY-RADIANT).
- Cabeza electrotérmica normalmente cerrada (de 2 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 50$  mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
501508	M30 x 1,5 ; ON / OFF (230 V AC)	28,30 €	AC	100
501524	M30 x 1,5 ; ON / OFF (24 V AC/DC)	28,30 €	AC	100

## TE 4040 A



- Testa elettrotermica normalmente aperta (2 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 50$  mm (no EASY-RADIANT).
- Electrothermal head normally open (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 50$  mm (no EASY-RADIANT).
- Tête électrothermique normalement ouverte (2 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 50$  mm (non EASY-RADIANT).
- Elektrothermischer Stellantriebe stromlos-auf (2 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 50$  mm (keine EASY-RADIANT).
- Cabeza electrotérmica normalmente abierta (de 2 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 50$  mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
501508A	M30 x 1,5 ; ON / OFF (230 V AC)	28,30 €	AC	100
501524A	M30 x 1,5 ; ON / OFF (24 V AC/DC)	28,30 €	AC	100

**TE 3050 MC**


- **Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 40$  mm.**
- *Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 40$  mm.*
- **Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 40$  mm.**
- *Elektrothermischer Stellantriebe stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 40$  mm.*
- **Cabeza electotérmica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 40$  mm.**

Code	Size	Price	Class	Packaging
500808MC	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100

**TE 3050 M**


- **Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 50$  mm (no EASY-RADIANT).**
- *Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 50$  mm (no EASY-RADIANT).*
- **Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 50$  mm (non EASY-RADIANT).**
- *Elektrothermischer Stellantriebe stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 50$  mm (keine EASY-RADIANT).*
- **Cabeza electotérmica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 50$  mm (no EASY-RADIANT).**

Code	Size	Price	Class	Packaging
500808M	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100
500028M	M30 x 1,5 ; ON / OFF (24 V AC/DC)	33,58 €	AC	100

**TE 3061**


- **Testa elettrotermica normalmente chiusa (comando proporzionale 0-10 V). Compatibile con tutti i vitoni termostattizzabili IVAR.**
- *Electrothermal head normally closed (proportional control 0-10 V). Suitable for all IVAR thermostatic inserts.*
- **Tête électrothermique normalement fermée (commande proportionnel 0-10 V). Adaptée pour tous les inserts thermostatisables IVAR.**
- *Elektrothermischer Stellantriebe normalerweise geschlossen (proportional Steuerung 0-10 V). Geeignet für alle Thermostat-Regulievorrichtungen IVAR.*
- **Cabeza electotérmica normalmente cerrada (control proporcional 0-10 V). Adecuada para todos los tornillos termostatzables IVAR.**

Code	Size	Price	Class	Packaging
500887	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	97,92 €	AC	100

**VA 80**


- **Ghiera per teste elettrotermiche.**
- *Ring nut for electrothermal heads.*
- **Bague fileté pour têtes électrothermiques.**
- *Ring für Elektrothermischer Stellantriebe.*
- **Anillo para cabezas electotérmicas.**

Code	Size	Price	Class	Packaging
501533	M30 x 1,5	2,66 €	AC	50 / 400

The delivery temperature of the hydronic system is one of the essential parameters that needs to be controlled to keep the environment comfortable. With sector mixer valves, this control is usually entrusted to the combination of a servomotor mounted on the valve and an external regulator. The CC25 and CTC20 servomotors integrate the regulation logic and the devices necessary to manage the mixed circuit without needing additional components.

CTC20 makes fixed point regulation possible (in heating and cooling) and has an outlet for the secondary circulation pump.

CC25 is an actual climatic regulator for heating/cooling complete with external probe, secondary pump outlet and touch-screen display for programming. It can also connect several servomotors via bus which share external temperature information during regulation.

Both devices can be applied to traditional sector valves (3-way or 4-way) and to the mixing units of the VARIMIX system.

## CTC 20



- **Attuatore rotativo con regolatore e sonda incorporati per il controllo a punto fisso delle valvole miscelatrici.**
- *Revolving actuator with incorporated regulator and probes for fixed point control of mixing valves.*
- **Actionneur rotatif avec régulateur et sondes incorporés pour le contrôle à point fixe des vannes mélangeuses.**
- *Drehbar Stellantrieb mit eingebauter Regler und Fühler für festwert Bedingung der Mischventile.*
- **Actuador rotativo con regulador y sondas incorporados para el control a punto fijo de las válvulas mezcladoras.**

Code	Size	Price	Class	Packaging
501648	230 V AC	369,42 €	PC	1

## CC 25



- **Attuatore rotativo con regolatore e sonda incorporati per controllo climatico delle valvole miscelatrici.**
- *Revolving actuator with incorporated regulator and probes for climatic control of mixing valves.*
- **Actionneur rotatif avec régulateur et sondes incorporés pour le contrôle climatique des vannes mélangeuses.**
- *Drehbar Stellantrieb mit eingebauten Regler und Fühler für klimatisch Bedingung der Mischventile.*
- **Actuador rotativo con regulador y sondas incorporados para el control climático de las válvulas mezcladoras.**

Code	Size	Price	Class	Packaging
501647	230 V AC	734,01 €	PC	1

## M 106



- **Servomotore per valvole miscelatrici a settore.**
- *Motor for rotor mixing valves.*
- **Servomoteur pour vannes mélangeuses à rotor.**
- *Stellantrieb für Rotor-Mischventile.*
- **Servomotor para válvulas mezcladoras de rotor.**

Code	Size	Price	Class	Packaging
501394	3-point regulation (230 V AC)	129,35 €	PC	1 / 8
501395	Proportional 0-10 V (24 V AC)	261,08 €	PC	8
501396	3-point regulation (24 V AC)	154,91 €	PC	10

## RV 01



- **Servomotore assiale. Compatibile con tutti i vitoni termostatici IVAR.**
- *Axial motor. Suitable for all IVAR thermostatic inserts.*
- **Servomoteur axial. Adapté pour tous les inserts thermostatiques IVAR.**
- *Axial-Stellantrieb. Geeignet für alle Thermostat-Regulier Vorrichtungen IVAR.*
- **Servomotor axial. Adecuado para todos los tornillos termostáticos IVAR.**

Code	Size	Price	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	109,71 €	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC)	127,27 €	PC	1 / 100

# WIRING ACCESSORIES

The offer of the environment regulation devices is completed with two further accessories which make it extremely easy to wire standard systems with one or more thermostats: CBL 01 and ALC 01. The first is a simple relay board which can be connected to a consent for the heating demand and activates the secondary pump (for floor system with mixing and booster unit), activates the boiler and connects the safety thermostat to interrupt the secondary pump in case of overtemperature.

ALC 01 is a connection unit which can be powered at 230 V AC or 24 V AC and makes it possible to connect up to 8 thermostats for the independent management of 8 zones. It has just as many outlets to switch the electrothermal heads applied to the distribution manifolds on/off. ALC 01 can also activate the secondary pump or the boiler if there is a heating demand in at least one zone.

## ■ CBL 01



- Scatola di cablaggio con scheda elettrica per regolazione a punto fisso.
- Wiring box with electric card for fixed point adjustment.
- Boîtier de câblage avec carte électrique pour régulation à point fixe.
- Anschlusskasten mit Platine zur festen Temperaturregelung.
- Caja de cableado con tarjeta eléctrica para ajuste a punto fijo.

Code	Size	Price	Class	Packaging
501828I	230 V AC	75,73 €	VA	4 / 32

## ■ ALC 01



- Wiring center per controllo di zona.
- Wiring center for zone control.
- Wiring center pour contrôle de zone.
- Wiring center für Zonenkontrolle.
- Wiring center para control de zona.

Code	Size	Price	Class	Packaging
ALC01	230 V AC / 24 V AC	138,72 €	VA	1



# SAFETY THERMOSTATS

## AC 614



- **Termostato di sicurezza regolabile a contatto.**
- *Adjustable contact safety thermostat.*
- **Thermostat de sécurité réglable à contact.**
- *Einstellbarer berührendes Sicherheitsthermostat.*
- **Termostato de seguridad regulable a contacto.**

Code	Price	Class	Packaging
580002	21,49 €	VA	1 / 10

## AC 616



- **Termostato di sicurezza regolabile con sonda ad immersione.**
- *Adjustable safety thermostat with immersion probe.*
- **Thermostat de sécurité réglable avec sonde à immersion.**
- *Einstellbarer Tauchhülse-Sicherheitsthermostat.*
- **Termostato de seguridad regulable con sonda de inmersión.**

Code	Price	Class	Packaging
580003	39,68 €	VA	1 / 6

## AC 616 I



- **Termostato di sicurezza regolabile con sonda a distanza.**
- *Adjustable safety thermostat with distance thermometer.*
- **Thermostat de sécurité réglable avec sonde à distance.**
- *Einstellbarer Sicherheitsthermostat mit Fernfühler.*
- **Termostato de seguridad regulable con sonda a distancia.**

Code	Price	Class	Packaging
580007	40,64 €	VA	8

## AC 634



- **Termostato di sicurezza a taratura fissa.**
- *Safety thermostat with fixed setting.*
- **Thermostat de sécurité à graduation fixe.**
- *Sicherheitsthermostat mit Fixkalibrierung.*
- **Termostato de seguridad con calibración fija.**

Code	Size	Max operating temp.	Price	Class	Packaging
580020	1/2" M	40 °C	29,69 €	VA	8 / 64
580009	1/2" M	60 °C	28,55 €	VA	8 / 64

## AC 608



- **Kit di collegamento elettrico per la connessione in serie di termostato di sicurezza e pompa.**
- *Electrical connection kit for connection in series of safety thermostat and pump.*
- **Kit de connexion électrique pour la connexion en série d'un thermostat de sécurité et de la pompe.**
- *Elektrischer Anschluss-Bausatz für die Verbindung in Reihe der Sicherheitsthermostat und der Pumpe.*
- **Kit de conexión eléctrica para la conexión en serie de termostato de seguridad y de la bomba.**

Code	Price	Class	Packaging
501370	29,99 €	VA	14

**AC 613 C**


- **Termostato di sicurezza regolabile precablato a contatto.**
- *Pre-wired adjustable contact safety thermostat.*
- **Thermostat de sécurité réglable pré-câblé à contact.**
- *Einstellbarer berührendes Sicherheitsthermostat, vorverdrahtet.*
- **Termostato de seguridad regulable precableado a contacto.**

Code	Price	Class	Packaging
580000	56,20 €	VA	1 / 8

**AC 613 S**


- **Termostato di sicurezza precablato con sonda ad immersione.**
- *Pre-wired safety thermostat with immersion probe.*
- **Thermostat de sécurité pré-câblé avec sonde à immersion.**
- *Einstellbarer Tauchhülse-Sicherheitsthermostat, vorverdrahtet.*
- **Termostato de seguridad regulable precableado con sonda de inmersión.**

Code	Price	Class	Packaging
580001	74,40 €	VA	1 / 8

**AC 613 SI**


- **Termostato di sicurezza regolabile precablato con sonda a distanza.**
- *Pre-wired adjustable safety thermostat with distance thermometer.*
- **Thermostat de sécurité réglable pré-câblé avec sonde à distance.**
- *Einstellbarer Sicherheitsthermostat mit Fernfühler, vorverdrahtet.*
- **Termostato de seguridad regulable precableado con sonda a distancia.**

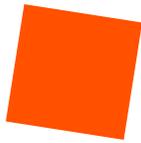
Code	Price	Class	Packaging
580008	75,35 €	VA	1 / 8

**AC 613 F**

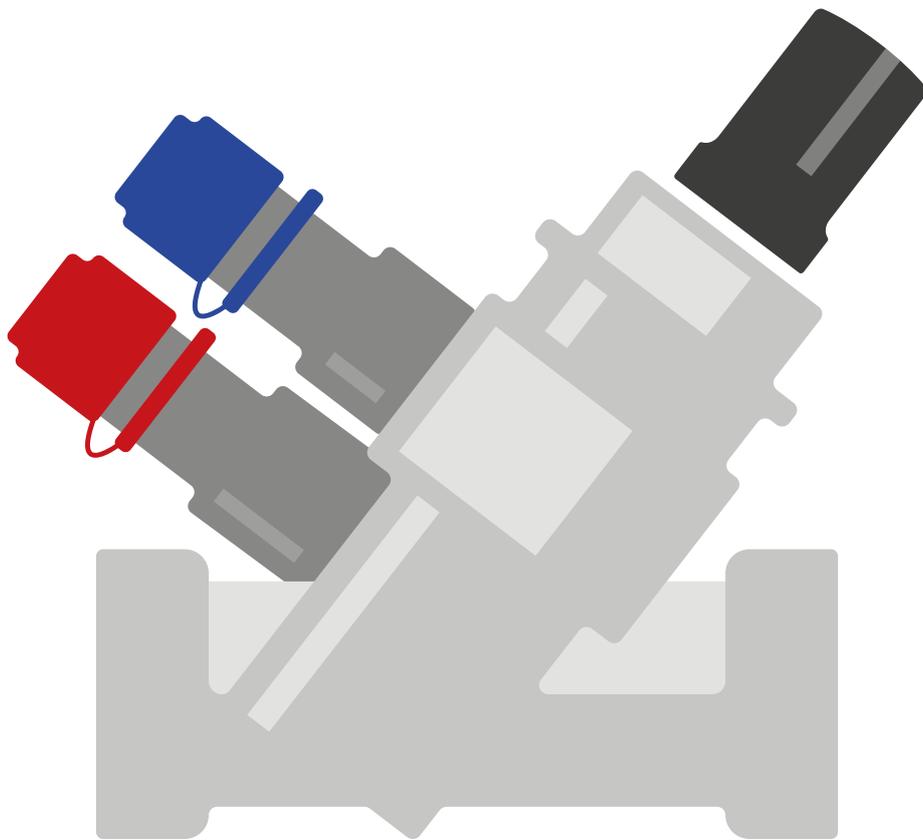

- **Termostato di sicurezza a taratura fissa precablato.**
- *Pre-wired safety thermostat with fixed setting.*
- **Thermostat de sécurité à graduation fixe pré-câblé.**
- *Vorverkabeltes Sicherheitsthermostat mit feststehender Einstellung.*
- **Termostato de seguridad con calibración fija precableado.**

Code	Size	Max operating temp.	Price	Class	Packaging
580014	1/2" M	60 °C	59,00 €	VA	1 / 8





# HYDRAULIC BALANCING



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Profundizaciones técnicas

**Valvole di bilanciamento statico***Static balancing valves***Vannes d'équilibrage statique***Statisches Ausgleichsventile***Válvulas de equilibrio estático**

429

**Valvole di bilanciamento dinamico PICV***PICV dynamic balancing valves***Vannes d'équilibrage dynamique PICV***Dynamische Abgleichventile PICV***Válvulas de equilibrio dinámico PICV**

432

**EQUIFLUID - Valvole di bilanciamento per la regolazione della pressione differenziale***EQUIFLUID - Balancing valves for differential pressure adjustment***EQUIFLUID - Vannes d'équilibrage pour le réglage de la pression différentielle***EQUIFLUID - Ausgleichsventile für die Regelung des Differenzdrucks***EQUIFLUID - Válvulas de equilibrio para la regulación de la presión diferencial**

442

# STATIC BALANCING VALVES

These balancing valves allow suitable pressure drops to occur to ensure that each branch of the circuit has the required design flow rate.

These are equipped with suitable pressure ports, which, when placed at the ends of a calibrated hole, allow the differential pressure,  $\Delta p$ , directly attributable to the flow through the valve, to be determined using a special kit (AVB 20).

Depending on the position of the hole in the valve, a distinction can be made between valves with a fixed orifice VB 00, where the pressure ports are read across a calibrated passage (Venturi), and valves with a variable orifice VB 10, where the pressure ports are across the shutter.

The VB 00 (fixed orifice), with a fixed Kv value, allows the flow rate to be read immediately based on the measured  $\Delta p$ . Therefore, these are particularly suitable for performing line operations (measurement, adjustment) accurately. On the other hand, the VB10 requires a measurement of  $\Delta p$  and a Kv graph for each adjustment position, which is less immediate, but which provides a good measurement of  $\Delta p$  even with very low flow rates.

## VB 00



- **Valvola di bilanciamento statico ad orifizio fisso.**  
\* Il valore KVs indica il KV del Venturi e non quello dell'intera tavola.
- **Static balancing valve with a fixed bore.**  
\* The KVs value indicates the KV of the Venturi and not that of the entire panel.
- **Vanne d'équilibrage statique à orifice fixe.**  
\* La valeur KVs indique le KV du Venturi et pas celui de toute la planche.
- **Festwert Strangregulierventil mit fester Öffnung.**  
\* Der KVs Wert bezieht sich auf den KV der Venturi-Rohre, nicht der gesamten Platte.
- **Válvula de equilibrio estático de orificio fijo.**  
\* El valor KVs indica el KV del Venturi y no toda la tabla.

Code	Size	Price	Class	Packaging
509067	1/2" F x 1/2" F - 2,80 KVs*	89,50 €	TE	1 / 8
509068	3/4" F x 3/4" F - 5,33 KVs*	89,50 €	TE	1 / 8
509069	1" F x 1" F - 9,72 KVs*	95,93 €	TE	1 / 8
509070	1"1/4 F x 1"1/4 F - 20,25 KVs*	115,67 €	TE	1 / 8
509071	1"1/2 F x 1"1/2 F - 30,23 KVs*	143,94 €	TE	1 / 8
509072	2" F x 2" F - 55,07 KVs*	214,50 €	TE	1 / 8

## VB 10



- **Valvola di bilanciamento statico ad orifizio variabile.**
- **Static balancing valve with a variable bore.**
- **Vanne d'équilibrage statique à orifice variable.**
- **Statisches Ausgleichsventil mit variabler Öffnung.**
- **Válvulas de equilibrio estático de orificio variable.**

Code	Size	Price	Class	Packaging
509135	1/2" F x 1/2" F - 2,67 KV max	76,29 €	TE	2 / 8
509136	3/4" F x 3/4" F - 4,10 KV max	82,85 €	TE	2 / 8
509137	1" F x 1" F - 6,40 KV max	95,93 €	TE	1 / 4
509138	1"1/4 F x 1"1/4 F - 12,00 KV max	115,59 €	TE	1 / 4
509139	1"1/2 F x 1"1/2 F - 19,50 KV max	143,86 €	TE	1 / 4
509140	2" F x 2" F - 29,80 KV max	202,81 €	TE	1 / 4

VB 20



- Valvole di bilanciamento in ghisa.
- Cast iron balancing valves.
- Vannes d'équilibrage en fonte.
- Abgleichventile aus Grauguss.
- Válvulas de equilibrado de fundición.

Code	Size	Price	Class	Packaging
509170	DN 50	261,03 €	TH	1
509171	DN 65	422,30 €	TH	1
509172	DN 80	586,67 €	TH	1
509173	DN 100	825,06 €	TH	1
509174	DN 125	1.039,98 €	TH	1
509175	DN 150	1.474,19 €	TH	1
509176	DN 200	3.776,84 €	TH	1
509177	DN 250	5.877,74 €	TH	1
509178	DN 300	8.246,18 €	TH	1

TM 00



- Tronchetto in acciaio inox assemblabile tra flange per la lettura indiretta della portata.
- Stainless steel riser fitted between flanges for indirect readout of capacity.
- Cylindre en acier inox assemblable entre les brides pour la lecture indirecte du débit.
- Zwischen Flanschen einsetzbares Rohrstück aus Edelstahl zum indirekten Abmessung des Volumenstroms.
- Tronco de acero inox ensamblable entre bridas para la lectura indirecta de la capacidad.

Code	Kv	Size	Price	Class	Packaging
509078	88.20	2"1/2	374,60 €	TE	1
509079	123	3"	420,53 €	TE	1
509080	215.60	4"	477,39 €	TE	1

TM 10



- Tronchetto per la lettura indiretta della portata.
- Riser for indirect readout of capacity.
- Cylindre pour la lecture indirecte du débit.
- Rohrstück zum indirekten Abmessung des Volumenstroms.
- Tronco para la lectura indirecta de la capacidad.

Code	Kv	Size	Color	Price	Class	Packaging
509081	2.80	1/2" M x 1/2" F	■ / ■	31,85 €	TE	1
509082	5.33	3/4" M x 3/4" F	■ / ■	34,43 €	TE	1
509083	9.72	1" M x 1" F	■ / ■	42,22 €	TE	1
509084	20.25	1"1/4 M x 1"1/4 F	■ / ■	52,07 €	TE	1
509085	30.23	1"1/2 M x 1"1/2 F	■ / ■	61,70 €	TE	1
509086	55.07	2" M x 2" F	■ / ■	78,38 €	TE	1

**AVB 20**


- **Kit di misurazione elettronica di portata e pressione differenziale.**
- *Electronic capacity and differential pressure measurement kit.*
- **Kit de mesurage électronique de débit et pression différentielle.**
- *Bausatz zur elektronischen Messung von Volumenstrom und Differenzdruck.*
- **Kit de medición electrónica de caudal y presión diferencial.**

Code	Included Accessories	Price	Class	Packaging
509089		1.760,00 €	TE	1
509133	Database included (to be used with an App)	4.000,00 €	TE	1

**AVB 00**


- **Presa piezometrica con scarico.**
- *Piezometric socket with discharge.*
- **Prise piézométrique avec décharge.**
- *Piezometrischer Messventil mit Abfluss.*
- **Toma piezométrica con descarga.**

Code	Size	Price	Class	Packaging
509087	1/4" M	27,27 €	TE	1

**AVB 10**


- **Presa piezometrica.**
- *Piezometric socket.*
- **Prise piézométrique.**
- *Piezometrischer Messventil.*
- **Toma piezométrica.**

Code	Size	Color	Price	Class	Packaging
509088B	1/4" M		5,50 €	TE	100
509088R	1/4" M		5,50 €	TE	100

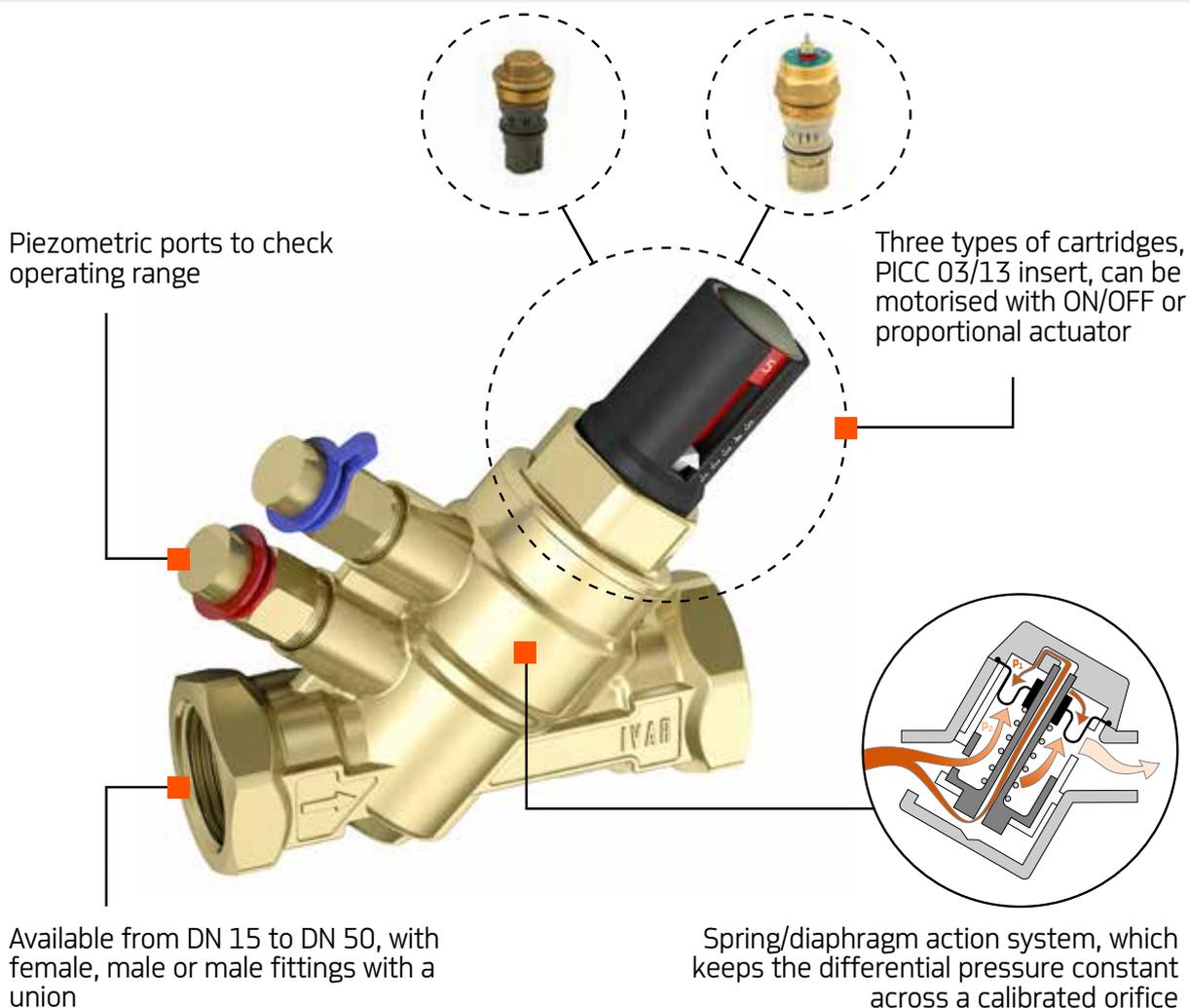


PICV (Pressure Independent Control Valves) are dynamic balancing valves, which, thanks to a diaphragm device with a contrast spring, are able to maintain a constant flow rate within a certain range of differential pressure.

These devices consist of a valve body that can be combined with an insert depending on the type of operation and the required working conditions (flow rate, differential pressure). There are four types of inserts:

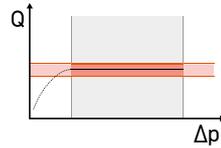
- PICC 01/11, available in different models for valves from DN 15 to DN 32. This insert makes it possible to pre-calibrate the flow rate with up to 8 available levels/positions, while providing for its stabilisation, even in case of pressure variations.
- PICC 02/12/22, available in different models for valves from DN 15 to DN 50, which transforms the PICV valve into a flow stabiliser. Using a special key a position/range can be selected from among the 41 available on each insert. The advantage compared to PICC 01/11 is that the calibration position can be changed directly from the outside and while the system is running.
- PICC 03/13, available in different models for valves from DN 15 to DN 32. This insert has similar features to the previous one, namely it stabilises the flow rate and the choice of 41 different flow positions, but it also can be fitted with an on/off or 0-10 V axial actuator. This way it is possible to provide for the cut off of the valve, but also and above all, the modulation of the flow rate regardless of the differential pressure. Actually, the valve limits the maximum flow rate, modulating it independently of the pressure at the ends of the insert.
- PICC 20, available in over 100 different models for DN 65 and DN 80 sizes. These inserts guarantee a single flow rate value within a pre-set range of differential pressure.

## PLUS



The most suitable regulating cartridge can be chosen for each valve:

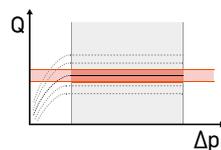
PICC 01      PICC 11



Automatically stabilises the flow rate at the value set

$\Delta p$ : 20-130/40-400/15-130/22-300/30-410 kPa

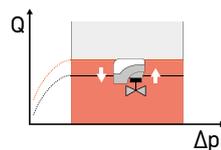
PICC 02      PICC 12      PICC 22



Automatically stabilises the flow rate at the value set, adjustable even when the system is running

$\Delta p$ : 17-210/17-200/30-400/35-400/17-400/20-400 kPa

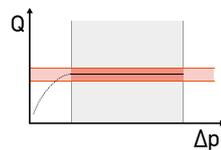
PICC 03      PICC 13



Stabilises the flow rate at the value determined by an external control. Even in modulation, its authority is always 100%.

$\Delta p$ : 16-200/30-400/16-400 kPa

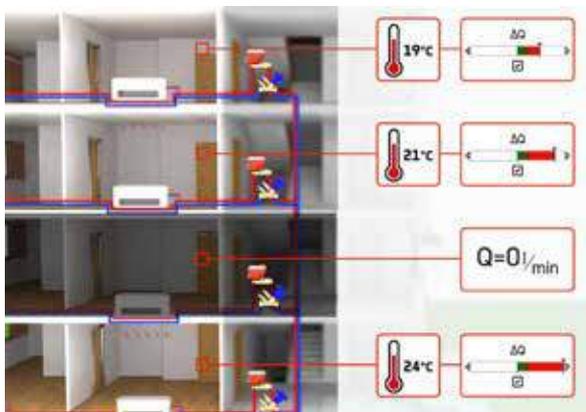
PICC 20



Available in sizes DN 65/80, it automatically stabilises the flow rate at the value set

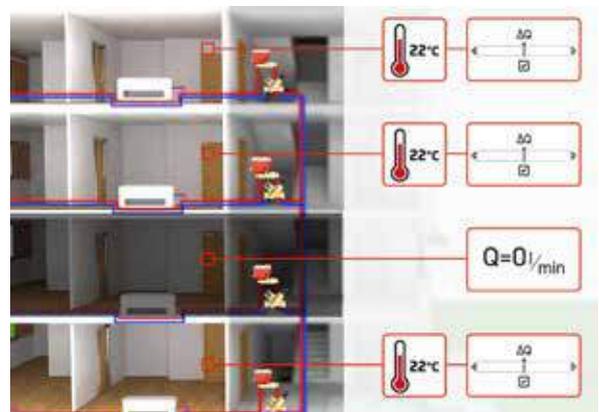
$\Delta p$ : 10-135/28-135/22-210/55-210/40-390/90-880 kPa

Static balancing



Turning the individual components on and off in the different branches of the system causes hydraulic imbalances in the lines, which can lead to inconvenient situations (excessive or insufficient temperatures) and a waste of energy.

Dynamic balancing



Even with these variations, PICV valves react by avoiding hydraulic imbalances in the circuits and keeping a constant flow rate at the terminals served.

**PICV 00**



- **Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni femmina – femmina**
- *Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Female - female connections.*
- **Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Connexions femelle - femelle**
- *Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. IG - IG anschlüsse*
- **Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones hembra - hembra**

Code	Size	Color	Price	Class	Packaging
590065	1/2" F x 1/2" F	■	31,87 €	TE	5 / 40
590066	3/4" F x 3/4" F	■	31,87 €	TE	5 / 40
590141	1" F x 1" F	■	37,10 €	TE	4 / 16

**PICV 05**



- **Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni maschio – maschio**
- *Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male connections.*
- **Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Connexions mâle - mâle**
- *Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. AG - AG anschlüsse*
- **Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones macho - macho**

Code	Size	Color	Price	Class	Packaging
590099	EUROK x EUROK	■	32,60 €	TE	5 / 40
590069	3/4" M x 3/4" M	■	32,60 €	TE	5 / 40
590144	1" M x 1" M	■	38,14 €	TE	2 / 8
590145	1"1/4 M x 1"1/4 M	■	38,14 €	TE	2 / 8

**PICV 10**



- **Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni maschio – maschio con bocchettone.**
- *Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male with fitting connections.*
- **Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Connexions mâle - mâle avec raccord.**
- *Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. AG - AG Anschlüsse mit Stutzen.*
- **Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones macho - macho con manguito.**

Code	Size	Color	Price	Class	Packaging
590073	1/2" M x 1/2" M	■	41,38 €	TE	5 / 40
590148	3/4" M x 3/4" M	■	49,64 €	TE	2 / 16
590149	1" M x 1" M	■	52,77 €	TE	2 / 16

**PICC 01**


- **Cartuccia per la stabilizzazione della portata. Fino ad 8 valori di portata importabili. Compatibile con PICV 00/05/10.**
- *Cartridge for stabilising the flow rate. Up to 8 flow rate values. Suitable for PICV 00/05/10.*
- **Cartouche pour la stabilisation du débit. Jusqu'à 8 valeurs de débit configurables. Adaptée pour PICV 00/05/10.**
- *Einsatz für Stabilisierung des Durchflusses. Bis zu 8 mögliche Durchflusswerte. Geeignet für PICV 00/05/10.*
- **Cartucho para estabilizar el caudal. Hasta 8 valores de caudal disponibles. Adecuada para PICV 00/05/10.**

Code	Size	Color	Price	Class	Packaging
590100	20-130 kPa; 29-155 l/h	■	38,50 €	TE	1
590101	20-130 kPa; 207-430 l/h	■	38,50 €	TE	1
590102	20-130 kPa; 223-526 l/h	■	38,50 €	TE	1
590103	20-130 kPa; 162-695 l/h	■	38,50 €	TE	1
590104	20-130 kPa; 352-984 l/h	■	38,50 €	TE	1
590105	40-400 kPa; 42-250 l/h	■	38,50 €	TE	1
590106	40-400 kPa; 281-653 l/h	■	38,50 €	TE	1
590107	40-400 kPa; 203-792 l/h	■	38,50 €	TE	1
590108	40-400 kPa; 215-998 l/h	■	38,50 €	TE	1
590109	40-400 kPa; 493-1470 l/h	■	38,50 €	TE	1

**PICC 02**


- **Cartuccia per la stabilizzazione della portata. 41 valori di portata impostabili dall'esterno e ad impianto funzionante. Compatibile con PICV 00/05/10.**
- *Cartridge for stabilising the flow rate. 41 flow rate values settable from the outside and when system is in function. Suitable for PICV 00/05/10.*
- **Cartouche pour la stabilisation du débit. 41 valeurs de débit configurables de l'extérieur et avec le système en marche. Adaptée pour PICV 00/05/10.**
- *Einsatz für Stabilisierung des Durchflusses. 41 Durchflusswerte einstellbaren von der Außenseite und mit dem Systemlauf. Geeignet für PICV 00/05/10.*
- **Cartucho para estabilizar el caudal. 41 valores de caudal ajustables desde el exterior y con el sistema en funcionamiento. Adecuada para PICV 00/05/10.**

Code	Size	Color	Price	Class	Packaging
590116	17-210 kPa; 100-412 l/h	■	48,50 €	TE	1
590117	17-210 kPa; 157-609 l/h	■	48,50 €	TE	1
590118	17-200 kPa; 276-825 l/h	■	48,50 €	TE	1
590119	30-400 kPa; 406-1270 l/h	■	48,50 €	TE	1
590120	35-400 kPa; 138-615 l/h	■	48,50 €	TE	1
590121	35-400 kPa; 238-896 l/h	■	48,50 €	TE	1

**PICC 03**


- **Cartuccia per la limitazione e modulazione della portata indipendente dalla pressione. 41 valori di portata importabili. Compatibile con PICV 00/05/10.**
- *Cartridge for limiting and modulating the flow rate independently of the pressure. 41 settable flow rate values. Suitable for PICV 00/05/10.*
- **Cartouche pour la limitation et la modulation du débit indépendamment de la pression. 41 valeurs de débit configurables. Adaptée pour PICV 00/05/10.**
- *Einsatz für Begrenzung und Modulation des Durchflusses unabhängig von Druck. 41 mögliche Durchflusswerte. Geeignet für PICV 00/05/10.*
- **Cartucho para limitar y modular el caudal independientemente de la presión. 41 valores de caudal disponibles. Adecuada para PICV 00/05/10.**

Code	Size	Color	Price	Class	Packaging
590123	16-200 kPa; 37-575 l/h	■	70,60 €	TE	1
590124	30-400 kPa; 64-1110 l/h	■	70,60 €	TE	1
590127	35-800 kPa; 620-2650 l/h	■	75,95 €	TE	1



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■ PICV 100



- **Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni femmina – femmina**
- *Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Female - female connections.*
- **Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Connexions femelle - femelle**
- *Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. IG - IG anschlüsse*
- **Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones hembra - hembra**

Code	Size	Color	Price	Class	Packaging
590067	1" F x 1" F		107,11 €	TE	2 / 8
590068	1"1/4 F x 1"1/4 F		107,11 €	TE	2 / 16

■ PICV 105



- **Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni maschio – maschio**
- *Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male connections.*
- **Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Connexions mâle - mâle**
- *Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. AG - AG anschlüsse*
- **Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones macho - macho**

Code	Size	Color	Price	Class	Packaging
590070	1" M x 1" M		105,44 €	TE	2 / 8
590071	1"1/4 M x 1"1/4 M		105,44 €	TE	2 / 8
590072	1"1/2 M x 1"1/2 M		106,07 €	TE	2 / 8

■ PICV 110



- **Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni maschio – maschio con bocchettone**
- *Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male with fitting connections.*
- **Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Connexions mâle - mâle avec raccord.**
- *Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. AG - AG Anschlüsse mit Stutzen.*
- **Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones macho - macho con manguito.**

Code	Size	Color	Price	Class	Packaging
590074	3/4" M x 3/4" M		116,94 €	TE	2 / 16
590075	1" M x 1" M		121,43 €	TE	2 / 16
590076	1"1/4 M x 1"1/4 M		132,19 €	TE	2 / 16

**PICC 11**


- **Cartuccia per la stabilizzazione della portata. Fino ad 8 valori di portata impostabili. Compatibile con PICV 100/105/110.**
- *Cartridge for stabilising the flow rate. Up to 8 flow rate values. Suitable for PICV 100/105/110.*
- **Cartouche pour la stabilisation du débit. Jusqu'à 8 valeurs de débit configurables. Adaptée pour PICV 100/105/110.**
- *Einsatz für Stabilisierung des Durchflusses. Bis zu 8 mögliche Durchflusswerte. Geeignet für PICV 100/105/110.*
- **Cartucho para estabilizar el caudal. Hasta 8 valores de caudal disponibles. Adecuada para PICV 100/105/110.**

Code	Size	Color	Price	Class	Packaging
590110	15-130 kPa; 612-2380 l/h	□	69,90 €	TE	1
590111	15-130 kPa; 936-3060 l/h	■	69,90 €	TE	1
590112	22-300 kPa; 828-3020 l/h	□	69,90 €	TE	1
590113	22-300 kPa; 1370-4360 l/h	■	69,90 €	TE	1
590114	30-410 kPa; 972-3560 l/h	□	69,90 €	TE	1
590115	30-410 kPa; 1580-5150 l/h	■	69,90 €	TE	1

**PICC 12**


- **Cartuccia per la stabilizzazione della portata. 41 valori di portata impostabili dall'esterno e ad impianto funzionante. Compatibile con PICV 100/105/110.**
- *Cartridge for stabilising the flow rate. 41 flow rate values settable from the outside and when system is in function. Suitable for PICV 100/105/110.*
- **Cartouche pour la stabilisation du débit. 41 valeurs de débit configurables de l'extérieur et avec le système en marche. Adaptée pour PICV 100/105/110.**
- *Einsatz für Stabilisierung des Durchflusses. 41 Durchflusswerte einstellbaren von der Außenseite und mit dem Systemlauf. Geeignet für PICV 100/105/110.*
- **Cartucho para estabilizar el caudal. 41 valores de caudal ajustables desde el exterior y con el sistema en funcionamiento. Adecuada para PICV 100/105/110.**

Code	Size	Color	Price	Class	Packaging
590122	17-400 kPa; 535-5830 l/h	■	106,50 €	TE	1

**PICC 13**


- **Cartuccia per la limitazione e modulazione della portata indipendente dalla pressione. 41 valori di portata impostabili. Compatibile con PICV 100/105/110.**
- *Cartridge for limiting and modulating the flow rate independently of the pressure. 41 settable flow rate values. Suitable for PICV 100/105/110.*
- **Cartouche pour la limitation et la modulation du débit indépendamment de la pression. 41 valeurs de débit configurables. Adaptée pour PICV 100/105/110.**
- *Einsatz für Begrenzung und Modulation des Durchflusses unabhängig von Druck. 41 mögliche Durchflusswerte. Geeignet für PICV 100/105/110.*
- **Cartucho para limitar y modular el caudal independientemente de la presión. 41 valores de caudal disponibles. Adecuada para PICV 100/105/110.**

Code	Size	Color	Price	Class	Packaging
590125	16-400 kPa; 865-4630 l/h	■	173,50 €	TE	1



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**PICV 200**



- **Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni femmina – femmina**
- *Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Female - female connections.*
- **Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Connexions femelle - femelle**
- *Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. IG - IG anschlüsse*
- **Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones hembra - hembra**

Code	Size	Color	Price	Class	Packaging
590142	1"1/2 F x 1"1/2 F	■	173,47 €	TE	2
590143	2" F x 2" F	■	194,37 €	TE	2

**PICV 205**



- **Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni maschio – maschio**
- *Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male connections.*
- **Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Connexions mâle - mâle**
- *Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. AG - AG anschlüsse*
- **Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones macho - macho**

Code	Size	Color	Price	Class	Packaging
590146	2" M x 2" M	■	161,98 €	TE	2
590147	2"1/2 M x 2"1/2 M	■	182,88 €	TE	2

**PICV 210**



- **Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni maschio – maschio con bocchettone**
- *Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male with fitting connections.*
- **Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Raccords mâle - mâle avec raccord**
- *Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. AG - AG Anschlüsse mit Stutzen.*
- **Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones macho - macho con mangoito**

Code	Size	Color	Price	Class	Packaging
590150	1"1/2 M x 1"1/2 M	■	204,82 €	TE	27
590151	2" M x 2" M	■	225,72 €	TE	27

**PICC 22**



- **Cartuccia per la stabilizzazione della portata. 41 valori di portata impostabili dall'esterno e ad impianto funzionante. Compatibile con PICV 200/205/210.**
- *Cartridge for stabilising the flow rate. 41 flow rate values settable from the outside and when system is in function. Suitable for PICV 200/205/210.*
- **Cartouche pour la stabilisation du débit. 41 valeurs de débit configurables de l'extérieur et avec le système en marche. Adaptée pour PICV 200/205/210.**
- *Einsatz für Stabilisierung des Durchflusses. 41 Durchflusswerte einstellbaren von der Außenseite und mit dem Systemlauf. Geeignet für PICV 200/205/210.*
- **Cartucho para estabilizar el caudal. 41 valores de caudal ajustables desde el exterior y con el sistema en funcionamiento. Adecuada para PICV 200/205/210.**

Code	Size	Color	Price	Class	Packaging
590126	20-400 kPa; 3178-16128 l/h	■	170,50 €	TE	1

**PICV 300**


- **Corpo valvola di bilanciamento dinamico, completo di prese piezometriche e predisposizione per inserto. Connessioni femmina - femmina.**
- **Dynamic balancing valve body, complete with piezometric inlets and arrangement for insert. Female - female connections.**
- **Corps de vanne d'équilibrage dynamique, avec prises piézométriques et prédisposition pour insert. Connexions femelle - femelle.**
- **Körper dynamisches Abgleichventil, komplett mit Piezometeranschlüsse und Vorrüstung für Einsatz. IG - IG anschlüsse.**
- **Cuerpo de válvula de equilibrado dinámico provisto de tomas piezométricas y preparado para inserto. Conexiones hembra - hembra.**

Code	Size	Color	Price	Class	Packaging
590200	DN 65 - 2"1/2 F x 2"1/2 F		470,00 €	TH	1
590201	DN 80 - 3" F x 3" F		515,00 €	TH	1

**PICC 20**


- **Inserto per PICV 300.**
- **Insert for PICV 300.**
- **Insert pour PICV 300.**
- **Einsatz für PICV 300.**
- **Inserto para PICV 300.**

**PICC 20**


- **Inserto per PICV 300.**
- **Insert for PICV 300.**
- **Insert pour PICV 300.**
- **Einsatz für PICV 300.**
- **Inserto para PICV 300.**

**PICC 20**


- **Inserto per PICV 300.**
- **Insert for PICV 300.**
- **Insert pour PICV 300.**
- **Einsatz für PICV 300.**
- **Inserto para PICV 300.**

Code	Size	Price	Class	Code	Size	Price	Class	Code	Size	Price	Class
590202	10-135 kPa; 3,18 m3/h	399,00 €	TH	590236	22-210 kPa; 7,95 m3/h	399,00 €	TH	590270	40-390 kPa; 15,90 m3/h	399,00 €	TH
590203	10-135 kPa; 3,63 m3/h	399,00 €	TH	590237	22-210 kPa; 8,52 m3/h	399,00 €	TH	590271	40-390 kPa; 16,70 m3/h	399,00 €	TH
590204	10-135 kPa; 4,09 m3/h	399,00 €	TH	590238	22-210 kPa; 9,08 m3/h	399,00 €	TH	590272	40-390 kPa; 17,40 m3/h	399,00 €	TH
590205	10-135 kPa; 4,54 m3/h	399,00 €	TH	590239	22-210 kPa; 9,65 m3/h	399,00 €	TH	590273	40-390 kPa; 18,20 m3/h	399,00 €	TH
590206	10-135 kPa; 5,00 m3/h	399,00 €	TH	590240	22-210 kPa; 10,20 m3/h	399,00 €	TH	590274	40-390 kPa; 18,90 m3/h	399,00 €	TH
590207	10-135 kPa; 5,45 m3/h	399,00 €	TH	590241	22-210 kPa; 10,80 m3/h	399,00 €	TH	590275	40-390 kPa; 19,70 m3/h	399,00 €	TH
590208	10-135 kPa; 5,91 m3/h	399,00 €	TH	590242	22-210 kPa; 11,40 m3/h	399,00 €	TH	590276	40-390 kPa; 20,40 m3/h	399,00 €	TH
590209	10-135 kPa; 6,36 m3/h	399,00 €	TH	590243	22-210 kPa; 11,90 m3/h	399,00 €	TH	590277	40-390 kPa; 21,20 m3/h	399,00 €	TH
590210	10-135 kPa; 6,81 m3/h	399,00 €	TH	590244	22-210 kPa; 12,50 m3/h	399,00 €	TH	590278	40-390 kPa; 22,00 m3/h	399,00 €	TH
590211	10-135 kPa; 7,27 m3/h	399,00 €	TH	590245	22-210 kPa; 13,10 m3/h	399,00 €	TH	590279	40-390 kPa; 22,70 m3/h	399,00 €	TH
590212	10-135 kPa; 7,72 m3/h	399,00 €	TH	590246	22-210 kPa; 13,60 m3/h	399,00 €	TH	590280	90-880 kPa; 7,95 m3/h	399,00 €	TH
590213	10-135 kPa; 8,18 m3/h	399,00 €	TH	590247	22-210 kPa; 14,20 m3/h	399,00 €	TH	590281	90-880 kPa; 9,08 m3/h	399,00 €	TH
590214	10-135 kPa; 8,63 m3/h	399,00 €	TH	590248	22-210 kPa; 14,80 m3/h	399,00 €	TH	590282	90-880 kPa; 10,20 m3/h	399,00 €	TH
590215	10-135 kPa; 9,08 m3/h	399,00 €	TH	590249	22-210 kPa; 15,30 m3/h	399,00 €	TH	590283	90-880 kPa; 11,40 m3/h	399,00 €	TH
590216	10-135 kPa; 9,54 m3/h	399,00 €	TH	590250	22-210 kPa; 15,90 m3/h	399,00 €	TH	590284	90-880 kPa; 12,50 m3/h	399,00 €	TH
590217	10-135 kPa; 9,99 m3/h	399,00 €	TH	590251	22-210 kPa; 16,50 m3/h	399,00 €	TH	590285	90-880 kPa; 13,60 m3/h	399,00 €	TH
590218	10-135 kPa; 10,40 m3/h	399,00 €	TH	590252	22-210 kPa; 17,00 m3/h	399,00 €	TH	590286	90-880 kPa; 14,80 m3/h	399,00 €	TH
590219	10-135 kPa; 10,90 m3/h	399,00 €	TH	590253	55-210 kPa; 25,00 m3/h	399,00 €	TH	590287	90-880 kPa; 15,90 m3/h	399,00 €	TH
590220	10-135 kPa; 11,40 m3/h	399,00 €	TH	590254	55-210 kPa; 30,71 m3/h	399,00 €	TH	590288	90-880 kPa; 17,00 m3/h	399,00 €	TH
590221	10-135 kPa; 11,80 m3/h	399,00 €	TH	590255	55-210 kPa; 36,30 m3/h	399,00 €	TH	590289	90-880 kPa; 18,20 m3/h	399,00 €	TH
590222	10-135 kPa; 12,30 m3/h	399,00 €	TH	590256	40-390 kPa; 5,30 m3/h	399,00 €	TH	590290	90-880 kPa; 19,30 m3/h	399,00 €	TH
590223	10-135 kPa; 12,70 m3/h	399,00 €	TH	590257	40-390 kPa; 6,06 m3/h	399,00 €	TH	590291	90-880 kPa; 20,40 m3/h	399,00 €	TH
590224	10-135 kPa; 13,20 m3/h	399,00 €	TH	590258	40-390 kPa; 6,81 m3/h	399,00 €	TH	590292	90-880 kPa; 21,60 m3/h	399,00 €	TH
590225	10-135 kPa; 13,60 m3/h	399,00 €	TH	590259	40-390 kPa; 7,57 m3/h	399,00 €	TH	590293	90-880 kPa; 22,70 m3/h	399,00 €	TH
590226	28-135 kPa; 20,40 m3/h	399,00 €	TH	590260	40-390 kPa; 8,33 m3/h	399,00 €	TH	590294	90-880 kPa; 23,80 m3/h	399,00 €	TH
590227	28-135 kPa; 25,00 m3/h	399,00 €	TH	590261	40-390 kPa; 9,08 m3/h	399,00 €	TH	590295	90-880 kPa; 25,00 m3/h	399,00 €	TH
590228	28-135 kPa; 29,50 m3/h	399,00 €	TH	590262	40-390 kPa; 9,84 m3/h	399,00 €	TH	590296	90-880 kPa; 26,10 m3/h	399,00 €	TH
590229	22-210 kPa; 3,97 m3/h	399,00 €	TH	590263	40-390 kPa; 10,60 m3/h	399,00 €	TH	590297	90-880 kPa; 27,30 m3/h	399,00 €	TH
590230	22-210 kPa; 4,54 m3/h	399,00 €	TH	590264	40-390 kPa; 11,40 m3/h	399,00 €	TH	590298	90-880 kPa; 28,40 m3/h	399,00 €	TH
590231	22-210 kPa; 5,11 m3/h	399,00 €	TH	590265	40-390 kPa; 12,10 m3/h	399,00 €	TH	590299	90-880 kPa; 29,50 m3/h	399,00 €	TH
590232	22-210 kPa; 5,68 m3/h	399,00 €	TH	590266	40-390 kPa; 12,90 m3/h	399,00 €	TH	590300	90-880 kPa; 30,71 m3/h	399,00 €	TH
590233	22-210 kPa; 6,25 m3/h	399,00 €	TH	590267	40-390 kPa; 13,60 m3/h	399,00 €	TH	590301	90-880 kPa; 31,80 m3/h	399,00 €	TH
590234	22-210 kPa; 6,81 m3/h	399,00 €	TH	590268	40-390 kPa; 14,40 m3/h	399,00 €	TH	590302	90-880 kPa; 32,90 m3/h	399,00 €	TH
590235	22-210 kPa; 7,38 m3/h	399,00 €	TH	590269	40-390 kPa; 15,10 m3/h	399,00 €	TH	590303	90-880 kPa; 34,10 m3/h	399,00 €	TH

■ TE 3003



- Attuatore elettrotermico per cartuccia PICC 03 (ON / OFF o comando proporzionale).
- Electrothermal actuator for PICC 03 cartridge (ON / OFF or proportional control).
- Actionneur électrothermique pour cartouche PICC 03 (ON / OFF ou commande proportionnel).
- Elektrothermischer Stellantrieb für Einsatz PICC 03 (ON / OFF oder proportional Steuerung).
- Actuador electrotérmico para cartucho PICC 03 (ON / OFF o control proporcional).

Code	Size	Price	Class	Packaging
501388	M30 x 1,5 ; ON / OFF (230 V AC)	40,81 €	PC	1 / 64
501389	M30 x 1,5 ; ON / OFF (24 V AC)	45,29 €	PC	1 / 70
501387	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	97,31 €	PC	1

■ RV 03



- Servomotore assiale per cartuccia PICC 03 / PICC 13 (ON / OFF o comando proporzionale).
- Axial motor for PICC 03 / PICC 13 cartridge (ON / OFF or proportional control).
- Servomoteur axial pour cartouche PICC 03 / PICC 13 (ON / OFF ou commande proportionnel).
- Axial-Stellantrieb für Einsatz PICC 03 / PICC 13 (ON / OFF oder proportional Steuerung).
- Servomotor axial para cartucho PICC 03 / PICC 13 (ON / OFF o control proporcional).

Code	Size	Price	Class	Packaging
501385	M30 x 1,5 ; 2-point/3-point regulation (230 V AC)	160,95 €	PC	1
501386	M30 x 1,5 ; 2-point/3-point regulation (24 V AC)	160,95 €	PC	1
501384	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	167,53 €	PC	1

■ AVB 10



- Presa piezometrica.
- Piezometric socket.
- Prise piézométrique.
- Piezometrischer Messventil.
- Toma piezométrica.

Code	Size	Color	Price	Class	Packaging
509088B	1/4" M	■	5,50 €	TE	100
509088R	1/4" M	■	5,50 €	TE	100

**PICV XL**

PICV XL are valves that are independent from the pressures used for large size systems and pipelines.

These valves are produced in cast iron and are available in the sizes from DN 65 to DN 150.

As with all PICV, they maintain a constant flow rate with a set differential pressure range (30-400 kPa).

Thanks to a control damper, the flow rate can be adjusted statically to partial loads (via the relative handwheel) or dynamically (via the actuator). The flow rate is linear, and the valve is fitted with special piezometric points to enable checks/measurements of the effective flow rate when required.

**PICV XL**


- **Valvola di bilanciamento dinamico per elevate portate.**
- *Dynamic balancing valve for high flow capacity.*
- **Vanne d'équilibrage dynamique pour débit élevé.**
- *Dynamisches Abgleichventil für erhöhte Durchfluss.*
- **Válvula de equilibrado dinámico para caudales elevados.**

Code	Size	Range	Price	Class	Packaging
550126	DN 65	30-400 kPa; 4,4-26 m <sup>3</sup> /h	1.838,51 €	TH	1
550127	DN 80	30-400 kPa; 4,7-36 m <sup>3</sup> /h	2.088,51 €	TH	1
550128	DN 100	30-400 kPa; 11,4-82,5 m <sup>3</sup> /h	2.421,85 €	TH	1
550129	DN 125	30-400 kPa; 13,1-125 m <sup>3</sup> /h	3.671,86 €	TH	1
550130	DN 150	30-400 kPa; 19-160 m <sup>3</sup> /h	4.917,48 €	TH	1

**BRA 24A**


- **Servomotore proporzionale per valvole PICV-XL.**
- *Proportional motor for PICV-XL valves.*
- **Servomoteur proportionnel pour vannes PICV-XL.**
- *Proportional Stellantrieb für PICV-XL Ventile.*
- **Servomotor proporcional para válvulas PICV-XL.**

Code	Size	Price	Class	Packaging
509145	10 N·m (DN 65-80)	523,38 €	TH	1
509146	20 N·m (DN 100-150)	605,08 €	TH	1

**BRA 065**


- **Volantino manuale per valvole PICV-XL.**
- *Manual steering wheel for PICV-XL valves.*
- **Volant manuel pour vannes PICV-XL.**
- *Manuelles Lenkrad für PICV-XL Ventile.*
- **Volante manual para válvulas PICV-XL.**

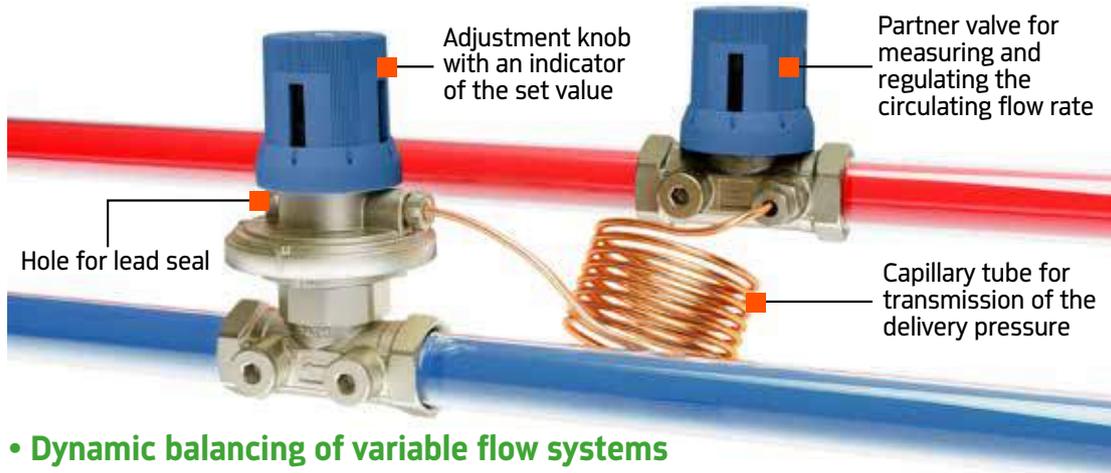
Code	Size	Price	Class	Packaging
509147	DN 65-150	196,58 €	TH	1

# EQUIFLUID

The differential pressure regulator is a dynamic balancing valve, which keeps the pressure difference at the ends of the circuit constant at the set value because it is able to react to pressure variations generated in the system, thanks to the combined action of a diaphragm and a spring. This regulation is perfect for keeping variable flow systems, such as thermostatic valves, satellite utilities or multi-zone controlled manifold systems, balanced at all times.

The partner valve is the ideal complement to the differential pressure regulator, because it allows balancing of the circulating flow rate, the transmission of the delivery pressure to the regulator, the measurement of the pressure differences in play and the cut off of the branch with position memory.

## PLUS



- Dynamic balancing of variable flow systems
- Optimisation of the operation of centralised systems
- Improvement of control valve operating conditions in the balanced circuit
- Reduction of noise phenomena

### EQF 01



- **Regolatore di pressione differenziale EQUIFLUID con/senza coibentazione termica e capillare.**
- *Differential pressure control valve EQUIFLUID with/without thermal insulation and capillary pipe.*
- **Régulateur de pression différentielle EQUIFLUID avec/sans isolation thermique et capillaire.**
- *Differenzdruckregler EQUIFLUID mit/ohne Wärmedämmung und Kapillarrohr.*
- **Regulador de presión diferencial EQUIFLUID con/sin aislamiento térmico y capilar.**

Code	Size	Range	Insulation	Price	Class	Packaging
550113SI	DN 15 (F)	50 - 300 mbar	-	151,41 €	TE	1 / 8
550114SI	DN 15 (F)	250 - 600 mbar	-	151,41 €	TE	1 / 8
550115SI	DN 20 (F)	50 - 300 mbar	-	167,41 €	TE	1 / 8
550116SI	DN 20 (F)	250 - 600 mbar	-	167,41 €	TE	1 / 8
550100SI	DN 20 (M)	50 - 300 mbar	-	161,36 €	TE	1 / 8
550101SI	DN 20 (M)	250 - 600 mbar	-	161,36 €	TE	1 / 8
550117SI	DN 25 (F)	50 - 300 mbar	-	202,80 €	TE	1 / 8
550118SI	DN 25 (F)	250 - 600 mbar	-	202,80 €	TE	1 / 8
550113	DN 15 (F)	50 - 300 mbar	✓	159,25 €	TE	1 / 8
550114	DN 15 (F)	250 - 600 mbar	✓	159,25 €	TE	1 / 8
550115	DN 20 (F)	50 - 300 mbar	✓	175,25 €	TE	1 / 8
550116	DN 20 (F)	250 - 600 mbar	✓	175,25 €	TE	1 / 8
550100	DN 20 (M)	50 - 300 mbar	✓	169,20 €	TE	1 / 8
550101	DN 20 (M)	250 - 600 mbar	✓	169,20 €	TE	1 / 8
550117	DN 25 (F)	50 - 300 mbar	✓	210,64 €	TE	1 / 8
550118	DN 25 (F)	250 - 600 mbar	✓	210,64 €	TE	1 / 8

**AEQF 01**


- **Capillare di ricambio per regolatore di pressione differenziale EQUIFLUID.**
- *Spare capillary pipe for differential pressure control valve EQUIFLUID.*
- **Capillaire de rechange pour le régulateur de pression différentielle EQUIFLUID.**
- *Ersatzkapillarrohr für Differenzdruckregler EQUIFLUID.*
- **Tubo capilar de recambio para regulador de presión diferencial EQUIFLUID.**

Code	Size	Price	Class	Packaging
550119	D.3x0,5	27,89 €	TE	1 / 32

**AEQF 11**


- **Coibentazione termica per regolatore di pressione differenziale EQUIFLUID.**
- *Thermal insulation for differential pressure control valve EQUIFLUID.*
- **Isolation thermique pour le régulateur de pression différentielle EQUIFLUID.**
- *Wärmedämmung für Differenzdruckregler EQUIFLUID.*
- **Aislamiento térmico para regulador de presión diferencial EQUIFLUID.**

Code	Size	Price	Class	Packaging
550150	1/2"	7,50 €	TE	1
550149	3/4"	7,50 €	TE	1
550151	1"	7,50 €	TE	1

**EQF 02**


- **Valvola "partner" per regolatore di pressione differenziale EQUIFLUID con/senza coibentazione termica.**
- *"Partner" valve for differential pressure control valve EQUIFLUID with/without thermal insulation.*
- **Vanne «partner» pour le régulateur de pression différentielle EQUIFLUID avec/sans isolation thermique.**
- *Partner-Ventil für Differenzdruckregler EQUIFLUID mit/ohne Wärmedämmung.*
- **Válvula "partner" para regulador de presión diferencial EQUIFLUID con/sin aislamiento térmico.**

Code	Size	Insulation	Price	Class	Packaging
550110SI	DN 15 (F)	-	62,99 €	TE	1 / 8
550111SI	DN 20 (F)	-	62,99 €	TE	1 / 8
550109SI	DN 20 (M)	-	56,63 €	TE	1 / 8
550112SI	DN 25 (F)	-	65,96 €	TE	1 / 8
550110	DN 15 (F)	✓	68,85 €	TE	1 / 8
550111	DN 20 (F)	✓	68,85 €	TE	1 / 8
550109	DN 20 (M)	✓	62,24 €	TE	1 / 8
550112	DN 25 (F)	✓	71,57 €	TE	1 / 8

**EQF 03**


- **Valvola "partner" serie BASIC per regolatore di pressione differenziale EQUIFLUID con/senza coibentazione termica.**
- *"Partner" valve BASIC series for differential pressure control valve EQUIFLUID with/without thermal insulation.*
- **Vanne «partner» série BASIC pour le régulateur de pression différentielle EQUIFLUID avec/sans isolation thermique.**
- *Partner-Ventil BASIC-Serie für Differenzdruckregler EQUIFLUID mit/ohne Wärmedämmung.*
- **Válvula "partner" serie BASIC para regulador de presión diferencial EQUIFLUID con/sin aislamiento térmico.**

Code	Size	Insulation	Price	Class	Packaging
550104SI	DN 15 (F)	-	44,63 €	TE	2 / 12
550105SI	DN 20 (F)	-	46,41 €	TE	2 / 16
550103SI	DN 20 (M)	-	45,39 €	TE	2 / 16
550106SI	DN 25 (F)	-	53,30 €	TE	2 / 16
550104	DN 15 (F)	✓	49,37 €	TE	2 / 16
550105	DN 20 (F)	✓	51,41 €	TE	2 / 16
550103	DN 20 (M)	✓	50,39 €	TE	2 / 16
550106	DN 25 (F)	✓	58,14 €	TE	2 / 16

### ■ DPCV XL



- **Regolatore di pressione differenziale per elevate portate.**
- *Differential pressure control valve for high flow capacity.*
- **Régulateur de pression différentielle pour débit élevé.**
- *Differenzdruckregler für erhöhte Durchfluss.*
- **Regulador de presión diferencial para caudales elevados.**

Code	Size	Range	Isolation / Metering	Price	Class	Packaging
550131	DN 65	200-1000 mbar	-	1.605,19 €	TH	1
550132	DN 80	200-1000 mbar	-	1.921,84 €	TH	1
550133	DN 100	200-1000 mbar	-	2.138,52 €	TH	1
550134	DN 125	200-1000 mbar	-	3.171,85 €	TH	1
550135	DN 150	200-1000 mbar	-	5.005,20 €	TH	1
550136	DN 65	800-1600 mbar	-	1.612,16 €	TH	1
550137	DN 80	800-1600 mbar	-	2.005,18 €	TH	1
550138	DN 100	800-1600 mbar	-	2.221,85 €	TH	1
550139	DN 65	200-1000 mbar	✓	1.738,49 €	TH	1
550140	DN 80	200-1000 mbar	✓	2.055,19 €	TH	1
550141	DN 100	200-1000 mbar	✓	2.271,86 €	TH	1
550142	DN 125	200-1000 mbar	✓	3.421,85 €	TH	1
550143	DN 150	200-1000 mbar	✓	5.255,20 €	TH	1
550144	DN 65	800-1600 mbar	✓	1.788,50 €	TH	1
550145	DN 80	800-1600 mbar	✓	2.138,52 €	TH	1
550146	DN 100	800-1600 mbar	✓	2.355,24 €	TH	1

### ■ KEKO 01



- **Gruppo di connessione a ramo di alta pressione, completo di presa piezometrica.**
- *High pressure branch connection unit, complete with piezometric socket.*
- **Unité de raccordement au branchement de haute pression, complète avec poignée piézométrique.**
- *Hochdruck-Anschlussstück, komplett mit piezometrischem Griff.*
- **Unidad de conexión de derivación de alta presión, con empuñadura piezométrica.**

Code	Size	Length	Price	Class	Packaging
509134	1/4" M	2 m	37,10 €	TH	1

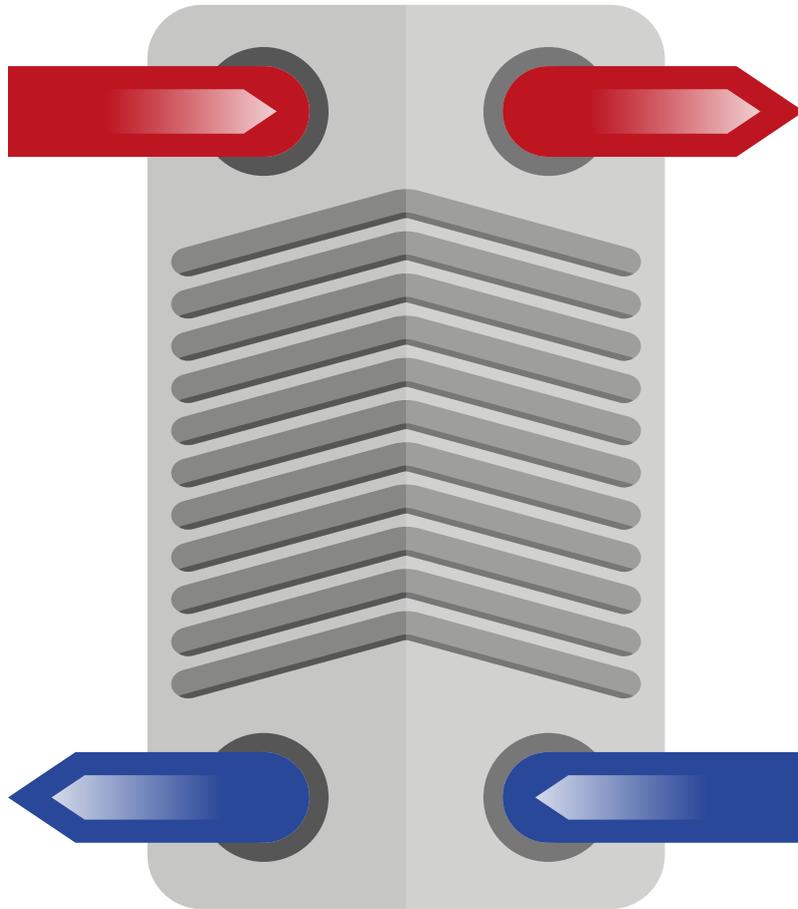
### ■ KEKO 03



- **Gruppo di connessione a ramo di alta pressione.**
- *High pressure branch connection unit.*
- **Unité de raccordement au branchement de haute pression.**
- *Hochdruck-Anschlussstück.*
- **Unidad de conexión de derivación de alta presión.**

Code	Size	Length	Price	Class	Packaging
509142	1/4" M	2 m	19,13 €	TH	1

# SATELLITE MODULES



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- IVAR•ESAT DUAL - Satellite di utenza a doppio scambiatore con controllo elettronico** **448**  
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*IVAR•ESAT DUAL - Satellitenmodul mit getrennten Wärmetauscher und elektronischer Steuerung*  
**IVAR•ESAT DUAL - Modulo satélite con intercambiadores de calor separados y control electrónico**



- IVAR•SAT - Satelliti di utenza con contabilizzazione** **452**  
*IVAR•SAT - Satellite modules with metering devices*  
**IVAR•SAT - Satellites d'application avec comptabilisation**  
*IVAR•SAT - Satellitenmodule mit Kostenabrechnung*  
**IVAR•SAT - Modulos satélite con contabilización**

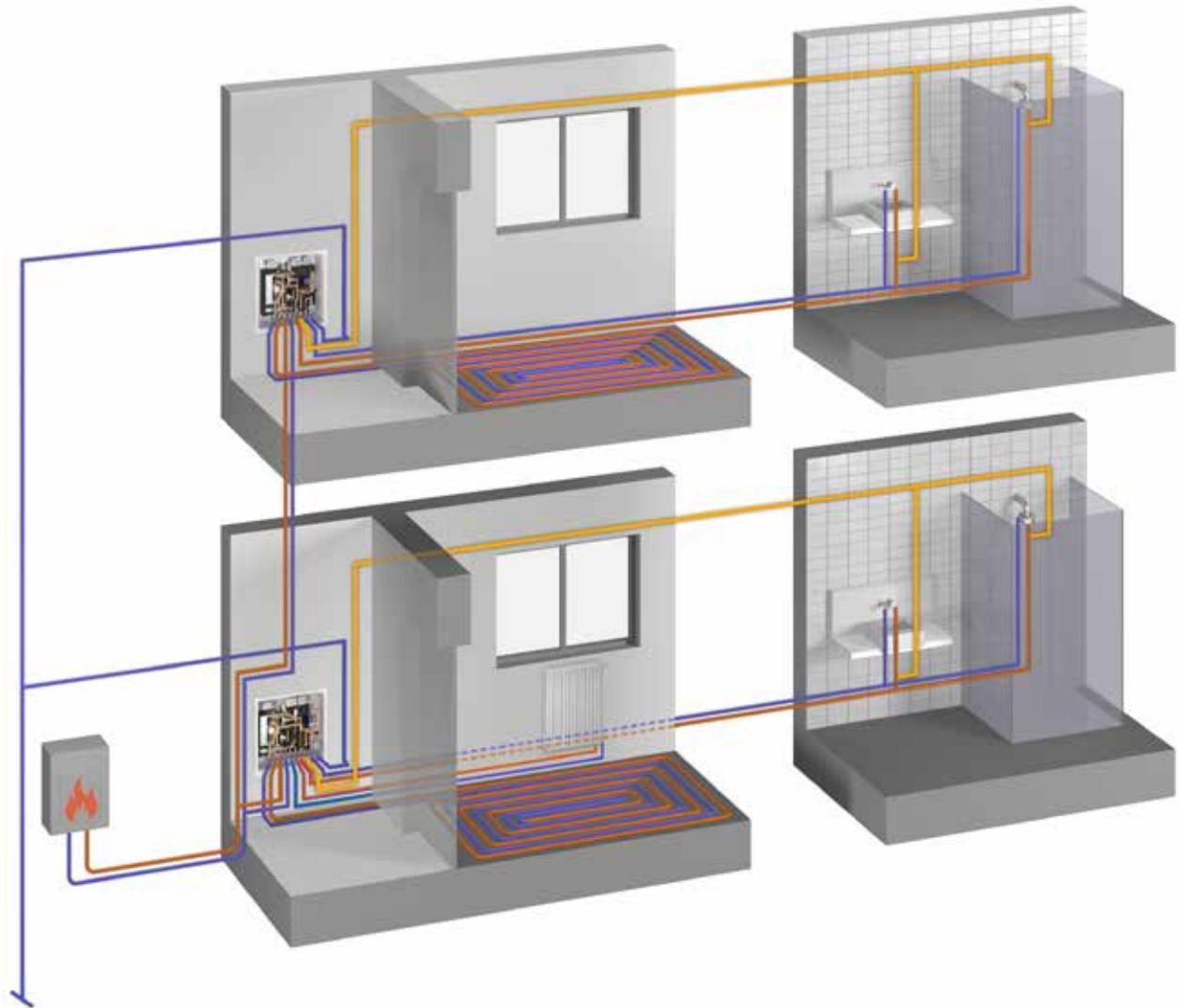


- E•SAT - M•SAT - Satelliti di utenza compatti** **462**  
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*E•SAT - M•SAT - Kompakte Satellitenmodule*  
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- SAP - SAP•C - Produttori istantanei di acqua calda sanitaria** **464**  
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## INSTALLATION LAYOUT



# IVAR•ESAT DUAL

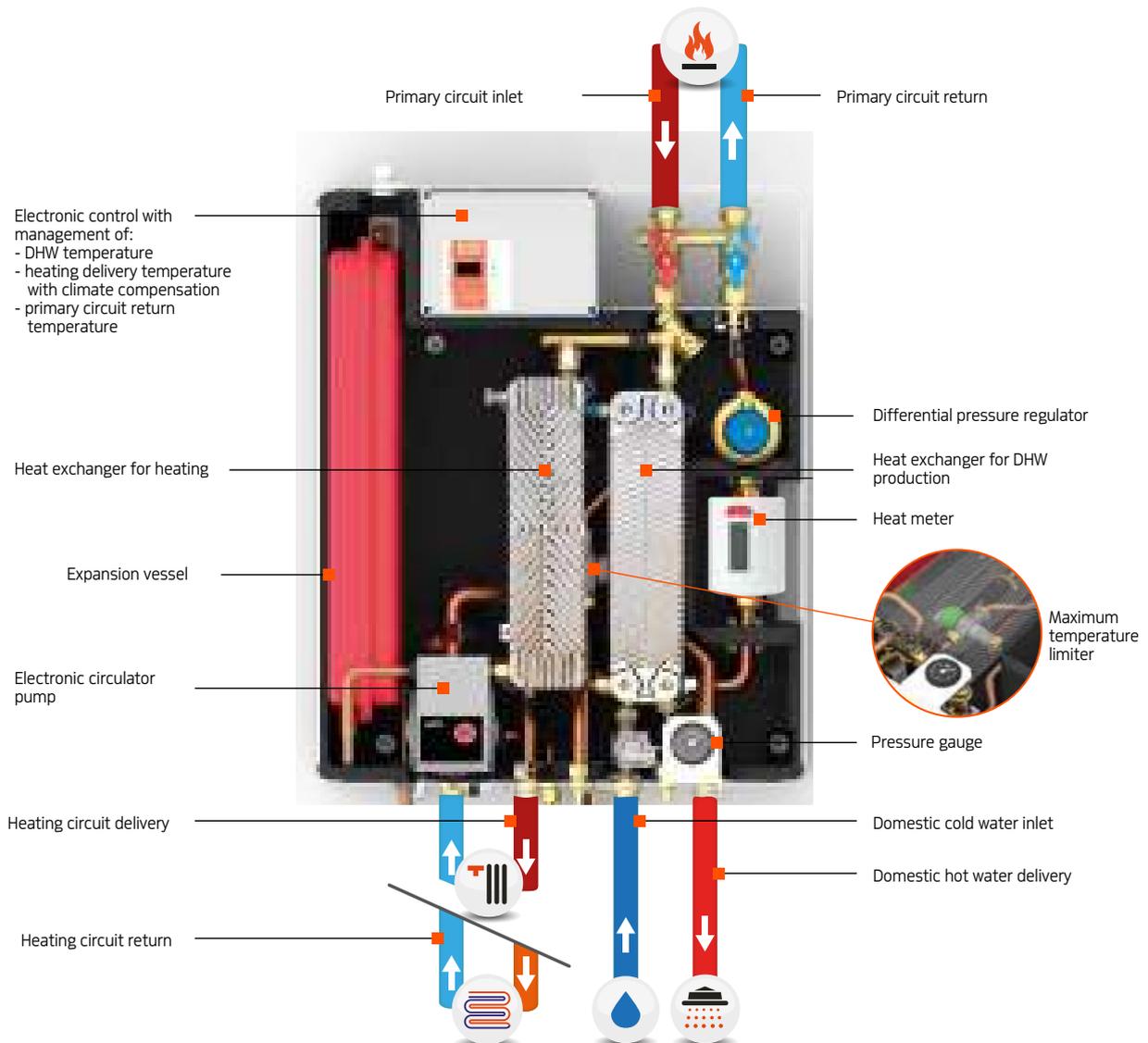
IVAR•ESAT DUAL is a heating interface unit with separate heat exchangers for heating and water to offer three functions: instant DHW production, heating control and metering of water and heat consumption. The dual heat exchanger design enables all three circuits to be kept separate (primary, domestic, and heating). In this way, any intervention on secondary circuits can be performed without acting on the primary circuit, shared by multiple utilities and users. Its strength lies in electronic control of the temperature of hot water delivery and delivery to the heating system, and therefore only the primary flow effectively necessary to meet demands is handled, consequently optimising pump energy consumption and the primary temperature variations. IVAR•ESAT DUAL is supplied pre-assembled on the frame, insulated by a polypropylene casing and with a provision for insertion of meters as required; it can be completed with a sheet steel cover, differential pressure regulator for the heating or primary circuit, and shut-off valve.

## IVAR•ESAT DUAL

DHW data: production of 18 l/min DHW\* (input at 10°C - output of DHW 55°C) - Power: approx. 55 kW

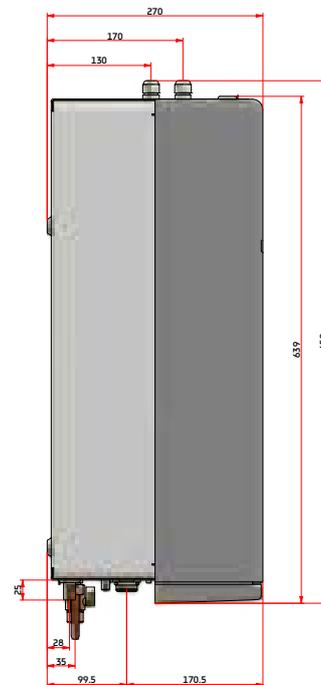
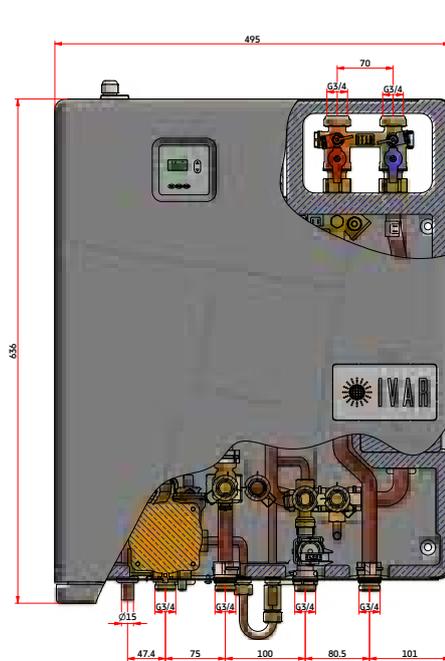
Heating data: Max. power: 23.6 kW (Delivery/return on secondary circuit: 60/40°C)\*

(\*) The specified values refer to  $D_p = 500$  mbar on the primary circuit and delivery temperature on the primary circuit of 70°C



**⊕ PLUS**

- Energy saving thanks to electronic temperature control of the boiler return.
- Power of the heat exchanger in DHW production up to 55 kW.
- Electronic DHW temperature control.
- Heat exchanger power for heating up to 24 kW.
- Electronic control with external compensation for the heating delivery temperature.
- **Electronic intervention** for: circuit temperature monitoring, water hammer delay, plumbing flow rate check by flowmeter, anti-lock function, fouled exchangers warning, PWM circulator control in heating mode, intelligent automatic loading.



**IVAR E-SAT MONO**

Indirect heat interface unit for domestic water preparation and heating/cooling applications with single heat exchanger. Several configurations available.

**AVAILABLE  
ON REQUEST**



**IVAR E-SAT TANK**

Heat interface unit for domestic hot water preparation with delocalized storage tank and heating applications with heat exchanger.

**AVAILABLE  
ON REQUEST**



**HC IVAR E-SAT DUAL**

4-pipe indirect heat interface unit for domestic water preparation and heating/cooling applications

**AVAILABLE  
ON REQUEST**

■ IVAR-ESAT DUAL



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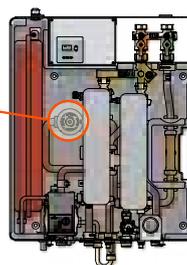
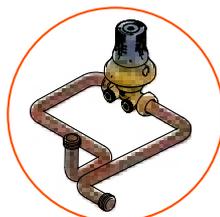
- **Satellite di utenza a doppio scambiatore per riscaldamento e produzione di acqua calda sanitaria con pompa elettronica a velocità variabile, coibentazione e controllo elettronico. Disponibile con regolatore di pressione differenziale EQF 01 (per il circuito primario o di riscaldamento), copertura in lamiera e valvola di riempimento automatico opzionali.**  
Unità contabilizzazione del calore: Qn 1,5 m³/h (contatore non incluso).
- **Heating interface unit with separated heat exchangers for heating and domestic hot water preparation, variable speed electronic pump, insulation and electronic controller. Available with optional differential pressure control valve EQF 01 (for primary or heating circuit), metal sheet cover and automatic filling valve.**  
Heat metering unit: Qn 1,5 m³/h (meter not included).
- **Satellite d'application à double échangeur de chaleur pour le chauffage et la production d'eau chaude sanitaire avec pompe électronique à vitesse variable, isolation et contrôle électronique. Disponible avec le régulateur de pression différentielle EQF 01 (pour le circuit primaire ou de chauffage), le couvercle en feuille et vanne de remplissage automatique optionnels.**  
Unité de comptabilisation de la chaleur: Qn 1,5 m³/h (compteur non inclus).
- **Satellitenmodul mit getrennten Wärmetauscher für Heizung und Frischwasserzubereitung, elektronischer Pumpe mit variabler Geschwindigkeit, Dämmschalen und elektronischer Steuerung. Erhältlich mit optionalen Differenzdruckregler EQF 01 (für Primär- oder Heizkreis), Blechabdeckung und automatisches Füllventil.**  
Wärmemesseneinheit: Qn 1,5 m³/h (Zähler nicht enthalten).
- **Modulo satélite con intercambiadores de calor separados para calefacción y producción de agua caliente sanitaria con bomba electrónica de velocidad variable, aislamiento y control electrónico. Disponible con regulador de presión diferencial EQF 01 (para circuito primario o de calefacción), cubierta de lámina y válvula de llenado automático opcionales.**  
Unidad de contabilización de calor: Qn 1,5 m³/h (contador no incluido).

Code	Filling	Metal sheet cover	ΔP adjustment	Price	Class	Packaging
500325	Manual	-		2.733,93 €	UE	1
500325C	Manual	✓		2.822,75 €	UE	1
500362	Manual	-	50 - 300 mbar (Primary circuit)	2.926,73 €	UE	1
500362C	Manual	✓	50 - 300 mbar (Primary circuit)	3.015,56 €	UE	1
500363	Manual	-	50 - 300 mbar (Heating circuit only)	2.942,41 €	UE	1
500363C	Manual	✓	50 - 300 mbar (Heating circuit only)	3.031,23 €	UE	1
500325A	Automatic	-		2.815,65 €	UE	1
500325AC	Automatic	✓		2.904,47 €	UE	1
500362A	Automatic	-	50 - 300 mbar (Primary circuit)	3.008,45 €	UE	1
500362AC	Automatic	✓	50 - 300 mbar (Primary circuit)	3.097,28 €	UE	1
500363A	Automatic	-	50 - 300 mbar (Heating circuit only)	3.024,13 €	UE	1
500363AC	Automatic	✓	50 - 300 mbar (Heating circuit only)	3.112,95 €	UE	1

■ EQF 01 H



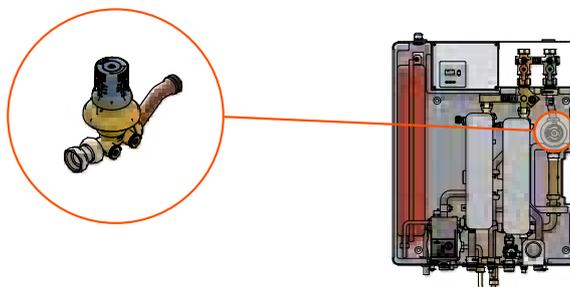
- **Regolatore di pressione differenziale EQUIFLUID completo di kit di connessione per circuito solo di riscaldamento per IVAR•ESAT DUAL.**
- **Differential pressure control valve EQUIFLUID complete with connection kit for IVAR•ESAT DUAL heating circuit only.**
- **Régulateur de pression différentielle EQUIFLUID avec kit de connexion pour le circuit de chauffage seulement pour IVAR•ESAT DUAL.**
- **Differenzdruckregler EQUIFLUID mit AnschluB-Set für nur Heizkreis für IVAR•ESAT DUAL.**
- **Regulador de presión diferencial EQUIFLUID con kit de conexión para circuito de solo calefacción para IVAR•ESAT DUAL.**



Code	Size	Range	Price	Class	Packaging
550147	DN 20 (M)	50 - 300 mbar	208,48 €	UE	1

**EQF 01 P**

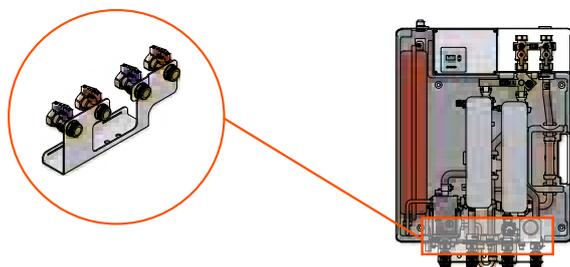

- **Regolatore di pressione differenziale EQUIFLUID completo di kit di connessione per circuito primario IVAR•ESAT DUAL.**
- *Differential pressure control valve EQUIFLUID complete with connection kit for IVAR•ESAT DUAL primary circuit.*
- **Régulateur de pression différentielle EQUIFLUID avec kit de connexion pour le circuit primaire pour IVAR•ESAT DUAL.**
- *Differenzdruckregler EQUIFLUID mit Anschluß-Set für Primärkreis für IVAR•ESAT DUAL.*
- **Regulador de presión diferencial EQUIFLUID con kit de conexión para circuito primario para IVAR•ESAT DUAL.**



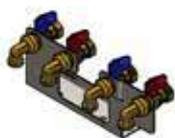
Code	Size	Range	Price	Class	Packaging
550148	DN 20 (M)	50 - 300 mbar	192,80 €	UE	1

**AC 688**

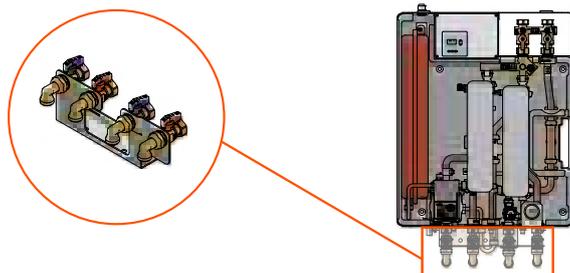

- **Kit di valvole di intercettazione a sfera diritte per IVAR•ESAT DUAL.**
- *Straight isolation ball valves kit for IVAR•ESAT DUAL.*
- **Kit de vannes d'interception à bille droites pour IVAR•ESAT DUAL.**
- *Durchgangs-Absperrkugelventile-Set für IVAR•ESAT DUAL.*
- **Kit válvulas de cierre de bola rectas para IVAR•ESAT DUAL.**



Code	Size	Price	Class	Packaging
508013	3/4" M x 3/4" F swivel	162,86 €	UE	1

**AC 688 S**


- **Kit di valvole di intercettazione a sfera con raccordo a squadra per IVAR•ESAT DUAL.**
- *Isolation ball valves kit with angle fitting for IVAR•ESAT DUAL.*
- **Kit de vannes d'interception à bille avec raccord équerre pour IVAR•ESAT DUAL.**
- *Absperrkugelventile-Set mit Winkel-Verbinder für IVAR•ESAT DUAL.*
- **Kit válvulas de cierre de bola con racor codo para IVAR•ESAT DUAL.**



Code	Size	Price	Class	Packaging
508012	3/4" M x 3/4" F swivel	187,00 €	UE	1

IvarSAT is the solution for direct metering of heat and domestic hot water in central heating systems without centralised production of domestic hot water (DHW): in fact, thanks to IvarSAT the production of DHW takes place instantly and is given priority at the level of the individual housing unit. IvarSAT is available in three families: the "H" family with direct delivery, suitable for high temperature heating systems; the "LE" family equipped with mixing valve and booster pump, suitable for radiant systems, and the "HLE" family, which integrates two separate deliveries, one direct without booster and one mixed with booster. Domestic hot water temperature is controlled by a thermostatic anti-scald mixer (max 50 °C). For the "1" models there is the provision for a disconnect upstream of the mixer without limitation of the delivery temperature. IvarSAT is also available with a built-in circulation pump ("R" models). The unit also includes a heat meter, a domestic cold-water meter and heating management devices such as thermostats and electrothermal heads. To meet the needs of construction sites, IvarSAT can also be supplied as an installation template with functional components provided separately.

## IVAR-SAT H

Heating power (\*): approx. 10 kW

Domestic hot water output (\*\*): approx. 32 kW - production of approx. 12 l/min of domestic hot water at 48°C with mains input at 10°C

(\*): temperature difference = 10°C and pressure differential at the ends of the module = 200 mbar

(\*\*): pressure differential at module ends = 150 mbar and boiler temperature = 60°C

## IVAR-SAT LE

Heating power (\*): approx. 7 kW

Domestic hot water output (\*\*): approx. 32 kW - production of approx. 12 l/min of domestic hot water at 48°C with mains input at 10°C

(\*): temperature difference = 8°C and WIL04 circulator

(\*\*): boiler temperature = 60°C

## IVAR-SAT HLE

Heating power (\*): approx. 7 kW (low temperature part)

Heating power (\*): approx. 5 kW (high temperature part)

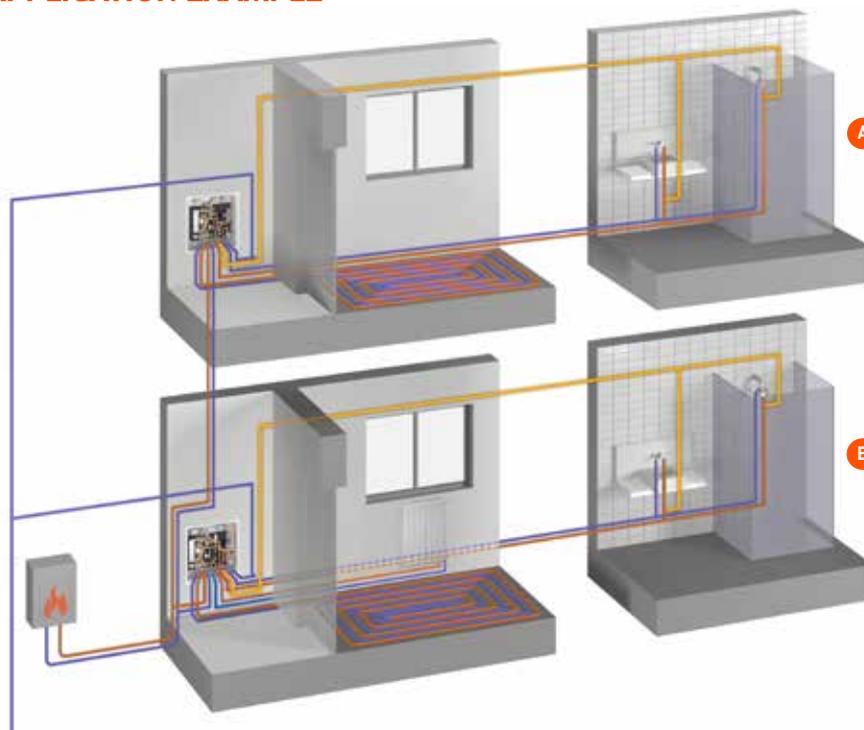
Domestic hot water output (\*\*): approx. 32 kW - production of approx. 12 l/min of domestic hot water at 48°C with mains input at 10°C

(\*): temperature difference = 8°C and WIL04 circulator

(\*) temperature difference = 10°C and pressure differential at the ends of the module = 200 mbar

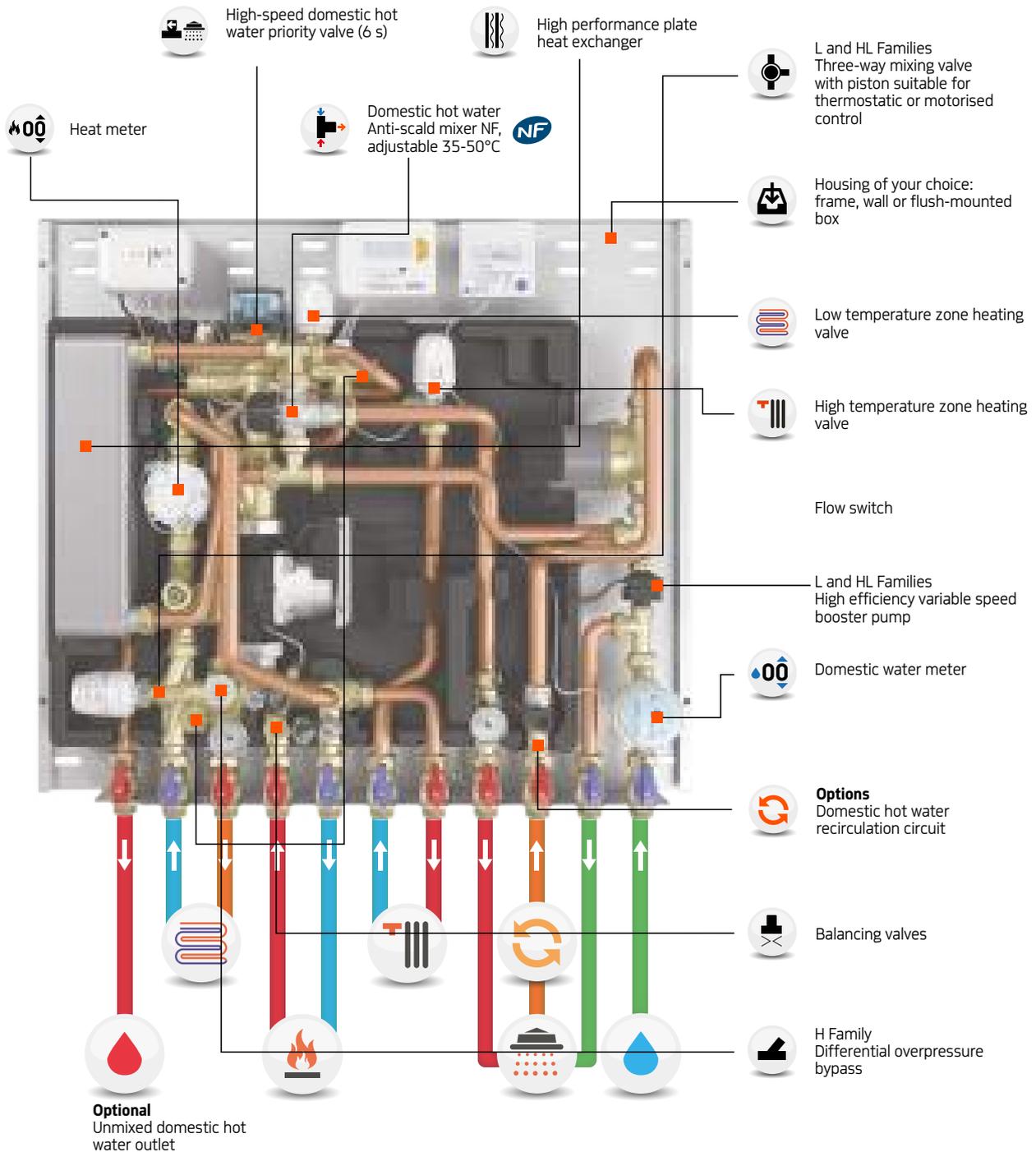
(\*\*) boiler temperature = 60°C

## APPLICATION EXAMPLE



**IVAR•SAT LRE (unit A)** with domestic cold water inlet, domestic cold water outlet, recirculation inlet, domestic hot water outlet, boiler return, boiler delivery, low temperature heating delivery, low temperature heating return.

**IVAR•SAT HLRE (unit B)** with domestic cold water inlet, domestic cold water outlet, recirculation inlet, domestic hot water outlet, high temperature heating delivery, high temperature heating return, boiler return, boiler delivery, low temperature heating delivery, low temperature heating return.



## **+** PLUS

- Available in the following versions: high temperature (IVARSAT H), low temperature (IVARSAT L/LE), combined (IVARSAT HL/HLE)
- Can be equipped with domestic hot water recirculation fittings
- Flush- or wall-mounted installation
- Electronic management of domestic hot water priority
- Ideal DHW delivery temperature control via thermostatic mixer

■ IVARSAT-HLE



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- **Satellite di utenza per riscaldamento misto alta/bassa temperatura e produzione di acqua calda sanitaria miscelata con pompa elettronica a velocità variabile.**
- *Satellite module for hybrid high-/low-temperature heating and domestic hot water preparation with variable speed electronic pump.*
- **Satellite d'application pour le chauffage mixte haute/basse température et production d'eau chaude sanitaire avec pompe électronique à vitesse variable.**
- *Satellitenmodul für gemischtes Heizen mit hoher/niedriger Temperatur und Trinkwarmwasservorbereitung mit elektronischer Pumpe mit variabler Geschwindigkeit.*
- **Modulo satélite usuario para calefacción mixta de alta/baja temperatura y producción de agua caliente sanitaria con bomba electrónica de velocidad variable.**

Code	Heat unit	Domestic water units	Additional units	Suitable Cabinet	Price	Class	Packaging
506699HLE	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX			2.146,46 €	UE	1
506699HLEC	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 (Included)	2.382,63 €	UE	1
506699HLEM	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 P (Included)	2.382,63 €	UE	1
506699HLE1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT		2.185,81 €	UE	1
506699HLEC1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 (Included)	2.421,98 €	UE	1
506699HLEM1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 P (Included)	2.421,98 €	UE	1
506699HLRE	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION		2.575,18 €	UE	1
506699HLREC	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 (Included)	2.811,35 €	UE	1
506699HLREM	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 P (Included)	2.811,35 €	UE	1
506699HLRE1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION		2.614,53 €	UE	1
506699HLREC1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 (Included)	2.850,70 €	UE	1
506699HLREM1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 P (Included)	2.850,70 €	UE	1

■ IVARSAT-HL



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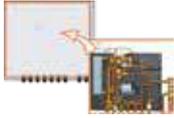
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- **Satellite di utenza per riscaldamento misto alta/bassa temperatura e produzione di acqua calda sanitaria miscelata con pompa standard a 3 velocità.**
- *Satellite module for hybrid high-/low-temperature heating and domestic hot water preparation with 3-speed standard pump.*
- **Satellite d'application pour le chauffage mixte haute/basse température et production d'eau chaude sanitaire avec pompe standard à 3 vitesses.**
- *Satellitenmodul für gemischtes Heizen mit hoher/niedriger Temperatur und Trinkwarmwasservorbereitung mit Standardpumpe mit 3 Geschwindigkeiten.*
- **Modulo satélite usuario para calefacción mixta de alta/baja temperatura y producción de agua caliente sanitaria con bomba estándar de 3 velocidades.**

Code	Heat unit	Domestic water units	Additional units	Suitable Cabinet	Price	Class	Packaging
506699HL	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX			1.961,33 €	UE	1
506699HLC	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 (Included)	2.197,50 €	UE	1
506699HLM	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 P (Included)	2.197,50 €	UE	1
506699HL1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT		2.000,67 €	UE	1
506699HLC1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 (Included)	2.236,84 €	UE	1
506699HLM1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 P (Included)	2.236,84 €	UE	1
506699HLR	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION		2.390,05 €	UE	1
506699HLRC	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 (Included)	2.626,22 €	UE	1
506699HLRM	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 P (Included)	2.626,22 €	UE	1
506699HLR1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION		2.429,38 €	UE	1
506699HLRC1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 (Included)	2.665,57 €	UE	1
506699HLRM1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 P (Included)	2.665,57 €	UE	1



For the supply of modules in separate components (template + functional blocks) please refer to the following tables.

### ■ IVARSAT-HL/HLE Template



- Dima per satellite di utenza per riscaldamento misto alta/bassa temperatura e produzione di acqua calda sanitaria.
- Template for satellite module for hybrid high-/low-temperature heating and domestic hot water preparation.
- Gabarit pour satellite d'application pour le chauffage mixte haute/basse température et production d'eau chaude sanitaire.
- Schablone für Satellitenmodul für gemischtes Heizen mit hoher/niedriger Temperatur und Trinkwarmwasservorbereitung.
- Plantilla para modulo satélite usuario para calefacción mixta de alta/baja temperatura y producción de agua caliente sanitaria.

Code	Additional units	Suitable Cabinet	Price	Class	Packaging
506698HL			287,51 €	UE	1
506698HLC		200190 (Included)	549,80 €	UE	1
506698HLM		200294 (Included)	549,38 €	UE	1
506698HL1	HOT		290,49 €	UE	1
506698HLC1	HOT	200190 (Included)	560,85 €	UE	1
506698HLM1	HOT	200294 (Included)	560,43 €	UE	1
506698HLR	RECIRCULATION		290,49 €	UE	1
506698HLRC	RECIRCULATION	200190 (Included)	560,85 €	UE	1
506698HLRM	RECIRCULATION	200294 (Included)	560,43 €	UE	1
506698HLR1	HOT+RECIRCULATION		309,61 €	UE	1
506698HLRC1	HOT+RECIRCULATION	200190 (Included)	571,90 €	UE	1
506698HLRM1	HOT+RECIRCULATION	200294 (Included)	571,48 €	UE	1

### ■ IVARSAT-HLE Complementary module



ErP

- Modulo complementare per satellite di utenza per riscaldamento misto alta/bassa temperatura e produzione di acqua calda sanitaria con pompa elettronica a velocità variabile.
- Complementary module for satellite module for hybrid high-/low-temperature heating and domestic hot water preparation with variable speed electronic pump.
- Module complémentaire pour satellite d'application pour le chauffage mixte haute/basse température et production d'eau chaude sanitaire avec pompe électronique à vitesse variable.
- Ergänzungsmodul für Satellitenmodul für gemischtes Heizen mit hoher/niedriger Temperatur und Trinkwarmwasservorbereitung mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo complementario para modulo satélite usuario para calefacción mixta de alta/baja temperatura y producción de agua caliente sanitaria con bomba electrónica de velocidad variable.

Code	Pump	Additional units	Price	Class	Packaging
506697HLE	WILO4F		1.799,22 €	UE	1
506697HLE1	WILO4F	HOT	1.824,72 €	UE	1
506697HLRE	WILO4F	RECIRCULATION	2.214,09 €	UE	1
506697HLRE1	WILO4F	HOT+RECIRCULATION	2.239,59 €	UE	1

### ■ IVARSAT-HL Complementary module



ErP

- Modulo complementare per satellite di utenza per riscaldamento misto alta/bassa temperatura e produzione di acqua calda sanitaria con pompa standard a 3 velocità.
- Complementary module for satellite module for hybrid high-/low-temperature heating and domestic hot water preparation with 3-speed standard pump.
- Module complémentaire pour satellite d'application pour le chauffage mixte haute/basse température et production d'eau chaude sanitaire avec pompe standard à 3 vitesses.
- Ergänzungsmodul für Satellitenmodul für gemischtes Heizen mit hoher/niedriger Temperatur und Trinkwarmwasservorbereitung mit Standardpumpe mit 3 Geschwindigkeiten.
- Módulo complementario para Modulo satélite usuario para calefacción mixta de alta/baja temperatura y producción de agua caliente sanitaria con bomba estándar de 3 velocidades.

Code	Pump	Additional units	Price	Class	Packaging
506697HL	WILO3F		1.614,09 €	UE	1
506697HL1	WILO3F	HOT	1.639,58 €	UE	1
506697HLR	WILO3F	RECIRCULATION	1.926,60 €	UE	1
506697HLR1	WILO3F	HOT+RECIRCULATION	1.952,10 €	UE	1

**IVARSAT-LE**



- **Satellite di utenza per riscaldamento a bassa temperatura e produzione di acqua calda sanitaria miscelata con pompa elettronica a velocità variabile.**
- *Satellite module for low-temperature heating and domestic hot water preparation with variable speed electronic pump.*
- **Satellite d'application pour le chauffage à basse température et production d'eau chaude sanitaire avec pompe électronique à vitesse variable.**
- *Satellitenmodul für Heizen mit niedriger Temperatur und Trinkwarmwasservorbereitung mit elektronischer Pumpe mit variabler Geschwindigkeit.*
- **Modulo satélite para calefacción de baja temperatura y producción de agua caliente sanitaria con bomba electrónica de velocidad variable.**



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Code	Heat unit	Domestic water units	Additional units	Suitable Cabinet	Price	Class	Packaging
506699LE	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX			2.026,21 €	UE	1
506699LEC	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 (Included)	2.213,24 €	UE	1
506699LEM	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 P (Included)	2.257,13 €	UE	1
506699LE1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT		2.065,55 €	UE	1
506699LEC1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 (Included)	2.252,58 €	UE	1
506699LEM1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 P (Included)	2.296,47 €	UE	1
506699LRE	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION		2.454,92 €	UE	1
506699LREC	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 (Included)	2.641,96 €	UE	1
506699LREM	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 P (Included)	2.685,85 €	UE	1
506699LRE1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION		2.494,27 €	UE	1
506699LREC1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 (Included)	2.681,30 €	UE	1
506699LREM1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 P (Included)	2.725,19 €	UE	1

**IVARSAT-L**



- **Satellite di utenza per riscaldamento a bassa temperatura e produzione di acqua calda sanitaria miscelata con pompa standard a 3 velocità.**
- *Satellite module for low-temperature heating and domestic hot water preparation with 3-speed standard pump.*
- **Satellite d'application pour le chauffage à basse température et production d'eau chaude sanitaire avec pompe standard à 3 vitesses.**
- *Satellitenmodul für Heizen mit niedriger Temperatur und Trinkwarmwasservorbereitung mit Standardpumpe mit 3 Geschwindigkeiten.*
- **Modulo satélite para calefacción de baja temperatura y producción de agua caliente sanitaria con bomba estándar de 3 velocidades.**



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Code	Heat unit	Domestic water units	Additional units	Suitable Cabinet	Price	Class	Packaging
506699L	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX			1.841,07 €	UE	1
506699LC	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 (Included)	2.028,09 €	UE	1
506699LM	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 P (Included)	2.071,99 €	UE	1
506699L1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT		1.880,41 €	UE	1
506699LC1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 (Included)	2.067,44 €	UE	1
506699LM1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 P (Included)	2.111,34 €	UE	1
506699LR	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION		2.269,79 €	UE	1
506699LRC	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 (Included)	2.456,82 €	UE	1
506699LRM	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 P (Included)	2.500,72 €	UE	1
506699LR1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION		2.309,14 €	UE	1
506699LRC1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 (Included)	2.496,16 €	UE	1
506699LRM1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 P (Included)	2.540,06 €	UE	1



For the supply of modules in separate components (template + functional blocks) please refer to the following tables.

### ■ IVARSAT-L/LE Template



- Dima per satellite di utenza per riscaldamento a bassa temperatura e produzione di acqua calda sanitaria.
- Template for satellite module for low-temperature heating and domestic hot water preparation.
- Gabarit pour satellite d'application pour le chauffage à basse température et production d'eau chaude sanitaire.
- Schablone für Satellitenmodul für Heizen mit niedriger Temperatur und Trinkwarmwasservorbereitung.
- Plantilla para modulo satélite para calefacción de baja temperatura y producción de agua caliente sanitaria.

Code	Additional units	Suitable Cabinet	Price	Class	Packaging
506698L			251,01 €	UE	1
506698LC		200090 (Included)	455,53 €	UE	1
506698LM		200194 (Included)	515,09 €	UE	1
506698L1	HOT		262,06 €	UE	1
506698LC1	HOT	200090 (Included)	455,82 €	UE	1
506698LM1	HOT	200194 (Included)	526,14 €	UE	1
506698LR	RECIRCULATION		262,06 €	UE	1
506698LRC	RECIRCULATION	200090 (Included)	466,58 €	UE	1
506698LRM	RECIRCULATION	200194 (Included)	526,14 €	UE	1
506698LR1	HOT+RECIRCULATION		273,11 €	UE	1
506698LRC1	HOT+RECIRCULATION	200090 (Included)	477,63 €	UE	1
506698LRM1	HOT+RECIRCULATION	200194 (Included)	537,19 €	UE	1

### ■ IVARSAT-LE Complementary module



ErP

- Modulo complementare per satellite di utenza per riscaldamento a bassa temperatura e produzione di acqua calda sanitaria con pompa elettronica a velocità variabile.
- Complementary module for satellite module for low-temperature heating and domestic hot water preparation with variable speed electronic pump.
- Module complémentaire pour satellite d'application pour le chauffage à basse température et production d'eau chaude sanitaire avec pompe électronique à vitesse variable.
- Ergänzungsmodul für Satellitenmodul für Heizen mit niedriger Temperatur und Trinkwarmwasservorbereitung mit elektronischer Pumpe mit variabler Geschwindigkeit.
- Módulo complementario para modulo satélite para calefacción de baja temperatura y producción de agua caliente sanitaria con bomba electrónica de velocidad variable.

Code	Pump	Additional units	Price	Class	Packaging
506697LE	WILO4F		1.713,76 €	UE	1
506697LE1	WILO4F	HOT	1.739,26 €	UE	1
506697LRE	WILO4F	RECIRCULATION	2.128,64 €	UE	1
506697LRE1	WILO4F	HOT+RECIRCULATION	2.154,13 €	UE	1

### ■ IVARSAT-L Complementary module



ErP

- Modulo complementare per satellite di utenza per riscaldamento a bassa temperatura e produzione di acqua calda sanitaria con pompa standard a 3 velocità.
- Complementary module for satellite module for low-temperature heating and domestic hot water preparation with 3-speed standard pump.
- Module complémentaire pour satellite d'application pour le chauffage à basse température et production d'eau chaude sanitaire avec pompe standard à 3 vitesses.
- Ergänzungsmodul für Satellitenmodul für Heizen mit niedriger Temperatur und Trinkwarmwasservorbereitung mit Standardpumpe mit 3 Geschwindigkeiten.
- Módulo complementario para modulo satélite para calefacción de baja temperatura y producción de agua caliente sanitaria con bomba estándar de 3 velocidades.

Code	Pump	Additional units	Price	Class	Packaging
506697L	WILO3F		1.528,62 €	UE	1
506697L1	WILO3F	HOT	1.554,12 €	UE	1
506697LR	WILO3F	RECIRCULATION	1.943,50 €	UE	1
506697LR1	WILO3F	HOT+RECIRCULATION	1.969,00 €	UE	1

■ IVARSAT-H



- **Satellite di utenza per riscaldamento ad alta temperatura e produzione di acqua calda sanitaria miscelata.**
- *Satellite module for high-temperature heating and domestic hot water preparation.*
- **Satellite d'application pour le chauffage à haute température et production d'eau chaude sanitaire.**
- *Satellitenmodul für Heizen mit hoher Temperatur und Trinkwarmwasservorbereitung.*
- **Modulo satélite para calefacción a alta temperatura y producción de agua caliente sanitaria.**



• AC 830 / AC 830 P >> p. 461

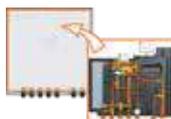


• >> p. 586



• >>p. 590

Code	Heat unit	Domestic water units	Additional units	Suitable Cabinet	Price	Class	Packaging
506699H	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX			1.430,76 €	UE	1
506699HC	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 (Included)	1.617,79 €	UE	1
506699HM	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		AC 830 P (Included)	1.630,19 €	UE	1
506699H1	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT		1.482,52 €	UE	1
506699HC1	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 (Included)	1.669,55 €	UE	1
506699HM1	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	AC 830 P (Included)	1.681,95 €	UE	1
506699HR	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION		1.882,12 €	UE	1
506699HRC	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 (Included)	2.069,15 €	UE	1
506699HRM	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	AC 830 P (Included)	2.081,55 €	UE	1
506699HR1	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION		1.911,24 €	UE	1
506699HRC1	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 (Included)	2.098,28 €	UE	1
506699HRM1	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	AC 830 P (Included)	2.110,67 €	UE	1



For the supply of modules in separate components (template + functional blocks) please refer to the following tables.

### ■ IVARSAT-H Template



- Dima per satellite di utenza per riscaldamento ad alta temperatura e produzione di acqua calda sanitaria.
- Template for satellite module for high-temperature heating and domestic hot water preparation.
- Gabarit pour satellite d'application pour le chauffage à haute température et production d'eau chaude sanitaire.
- Schablone für Satellitenmodul für Heizen mit hoher Temperatur und Trinkwarmwasservorbereitung.
- Plantilla para modulo satélite para calefacción a alta temperatura y producción de agua caliente sanitaria.

Code	Additional units	Suitable Cabinet	Price	Class	Packaging
506698H			232,51 €	UE	2
506698HC		200090 (Included)	431,92 €	UE	1
506698HM		200094 (Included)	456,38 €	UE	1
506698H1	HOT		238,86 €	UE	1
506698HC1	HOT	200090 (Included)	442,97 €	UE	1
506698HM1	HOT	200094 (Included)	467,43 €	UE	1
506698HR	RECIRCULATION		238,86 €	UE	1
506698HRC	RECIRCULATION	200090 (Included)	442,97 €	UE	1
506698HRM	RECIRCULATION	200094 (Included)	467,43 €	UE	1
506698HR1	HOT+RECIRCULATION		249,91 €	UE	1
506698HRC1	HOT+RECIRCULATION	200090 (Included)	454,01 €	UE	1
506698HRM1	HOT+RECIRCULATION	200094 (Included)	478,48 €	UE	1

### ■ IVARSAT-H Complementary module



- Modulo complementare per satellite di utenza per riscaldamento ad alta temperatura e produzione di acqua calda sanitaria.
- Complementary module for satellite module for high-temperature heating and domestic hot water preparation.
- Module complémentaire pour satellite d'application pour le chauffage à haute température et production d'eau chaude sanitaire.
- Ergänzungsmodul für Satellitenmodul für Heizen mit hoher Temperatur und Trinkwarmwasservorbereitung.
- Módulo complementario para modulo satélite para calefacción a alta temperatura y producción de agua caliente sanitaria.

Code	Additional units	Price	Class	Packaging
506697H		1.142,22 €	UE	1
506697H1	HOT	1.180,15 €	UE	1
506697HR	RECIRCULATION	1.579,74 €	UE	1
506697HR1	HOT+RECIRCULATION	1.595,03 €	UE	1



■ T 5011 U



- Testa termostatica con comando incorporato e sensore remoto ad immersione.
- Thermostatic head with incorporated control and immersion remote sensor.
- Tête thermostatique avec commande incorporée et capteur à distance à immersion.
- Thermostat-Kopf mit eingebauter Steuerung und Eintauch-Fernfühler.
- Cabeza termostática con mando incorporado y sensor remoto de inmersión.

Code	Size	Range	Length	Price	Class	Packaging
501175U	M30 x 1,5 - 1/2"	30-55 °C	1 m	42,19 €	AA	5 / 40

■ RV 01



- Servomotore assiale. Compatibile con tutti i vitoni termostatici IVAR.
- Axial motor. Suitable for all IVAR thermostatic inserts.
- Servomoteur axial. Adapté pour tous les inserts thermostatiques IVAR.
- Axial-Stellantrieb. Geeignet für alle Thermostat-Regulievorrichtungen IVAR.
- Servomotor axial. Adecuado para todos los tornillos termostáticos IVAR.

Code	Size	Price	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	109,71 €	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC)	127,27 €	PC	1 / 100

■ TE 3040



- Testa elettrotermica normalmente chiusa (2 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse ≥ 50 mm (no EASY-RADIANT).
- Electrothermal head normally closed (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 50 mm (no EASY-RADIANT).
- Tête électrothermique normalement fermée (2 fils). Adaptée pour tous les inserts thermostatizables IVAR et aux collecteurs avec entraxe ≥ 50 mm (non EASY-RADIANT).
- Elektrothermischer Stellantriebe stromlos-zu (2 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand ≥ 50 mm (keine EASY-RADIANT).
- Cabeza electotérmica normalmente cerrada (de 2 hilos). Adecuada para todos los tornillos termostattizables IVAR y los colectores con distancia entre centros ≥ 50 mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
501508	M30 x 1,5 ; ON / OFF (230 V AC)	28,30 €	AC	100
501524	M30 x 1,5 ; ON / OFF (24 V AC/DC)	28,30 €	AC	100

■ TE 3050 M



- Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse ≥ 50 mm (no EASY-RADIANT).
- Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 50 mm (no EASY-RADIANT).
- Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatizables IVAR et aux collecteurs avec entraxe ≥ 50 mm (non EASY-RADIANT).
- Elektrothermischer Stellantriebe stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand ≥ 50 mm (keine EASY-RADIANT).
- Cabeza electotérmica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostattizables IVAR y los colectores con distancia entre centros ≥ 50 mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
500808M	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100
500028M	M30 x 1,5 ; ON / OFF (24 V AC/DC)	33,58 €	AC	100

■ CBL 02



- Scheda multifunzione per moduli satellite IvarSAT.
- Multifunctional board for IvarSAT satellite modules.
- Fiche multifonctions pour les modules satellite IvarSAT.
- Multifunktionskarte für Satellitenmodule IvarSAT.
- Tarjeta multifunción para módulos satélite IvarSAT.

Code	Size	Price	Class	Packaging
520119	230 V AC	69,76 €	VA	4 / 32

**TEST KIT H/B IVARSAT**


- Kit collaudo circuito di riscaldamento e caldaia per satelliti IvarSAT, completo di valvola di sfiato automatica e portagomma per il carico/scarico dell'impianto.
- Heating and boiler circuits test kit for IvarSAT satellites, complete of automatic air vent valve and connecting nozzle for system loading/unloading.
- Kit de contrôle du circuit de chauffage et chaudière pour les satellites IvarSAT, complété d'un purgeur d'air automatique et d'un porte-caoutchouc pour le remplissage/évacuation de l'installation.
- Bausatz Endprüfung Heiz- Kesselkreislauf für Satellitenmodul IvarSAT, komplett mit automatischem Auslassventil und Gummihalter zum Laden/Entladen der Anlage.
- Conjunto de prueba del circuito de calefacción y de la caldera para los módulos satélites IvarSAT, equipado con válvula de purga automática y portagoma para la carga/descarga de la instalación.

Code	Price	Class	Packaging
520046	193,33 €	UE	1

**TEST KIT DW IVARSAT**


- Kit collaudo circuito sanitario per satelliti IvarSAT, completo di valvola di sfiato automatica e portagomma per il carico/scarico dell'impianto.
- Domestic water circuit test kit for IvarSAT satellites, complete of automatic air vent valve and connecting nozzle for system loading/unloading.
- Kit de contrôle du circuit sanitaire pour les satellites IvarSAT, complété d'un purgeur d'air automatique et d'un porte-caoutchouc pour le remplissage/évacuation de l'installation.
- Bausatz Endprüfung Sanitärkreislauf für Satellitenmodul IvarSAT, komplett mit automatischem Auslassventil und Gummihalter zum Laden/Entladen der Anlage.
- Conjunto de prueba del circuito de agua sanitaria para los módulos satélites IvarSAT, equipado con válvula de purga automática y porta-goma para la carga/descarga de la instalación.

Code	Price	Class	Packaging
520047	224,68 €	UE	1

**AC 830**


- Cassetta murale ad incasso per collettori e moduli MC / IVAR-SAT / MULTIMIX / MULTIMIX-C con altezza e profondità variabili.
- Wall fitted box for manifolds and MC / IVAR-SAT / MULTIMIX / MULTIMIX-C modules with variable height and depth.
- Casette murale encastrable pour collecteurs et modules MC / IVAR-SAT / MULTIMIX / MULTIMIX-C avec hauteur et profondeur variables.
- Einbauwandkasten für Verteiler und Module MC / IVAR-SAT / MULTIMIX / MULTIMIX-C mit variabler Höhe und Tiefe.
- Caja mural de empotrar para colectores y módulos MC / IVAR-SAT / MULTIMIX / MULTIMIX-C de altura y profundidad variables.

Code	Height	Width	Depth	Module	Price	Class	Packaging
200090	860-960 mm	700 mm	110-160 mm	MC 1/11/12/13/14 - MC4 series (1") - IVAR-SAT H/L/LE - 3-way Multimix/Multimix-C	201,12 €	NZ	1
200190	860-960 mm	900 mm	110-160 mm	MC2 series - IVAR-SAT HL/HLE	265,73 €	NZ	1

**AC 830 P**


- Cassetta murale pensile per satelliti di utenza IvarSAT.
- Wall hanging box for IvarSAT utility satellites.
- Caisse murale suspendue pour les satellites d'application IvarSAT.
- Hängewandkasten für Satellitenmodule IvarSAT.
- Caja mural colgante para los módulos satélites IvarSAT.

Code	Height	Width	Depth	Module	Price	Class	Packaging
200094	722 mm	600 mm	150 mm	IVAR-SAT H	225,13 €	UE	1
200194	785 mm	640 mm	150 mm	IVAR-SAT L/LE	259,98 €	UE	1
200294	785 mm	750 mm	150 mm	IVAR-SAT HL/HLE	265,73 €	UE	1

# E•SAT - M•SAT

The E-SAT and M-SAT modules are highly streamlined and simply built user heating interface units able to ensure the production of domestic hot water, upon request, while providing heating to individual residential units. The two systems have no domestic hot water or heat-metering devices, which can be installed together with the module by the installer as required. Their main feature is compactness and despite their small size E-SAT and M-SAT units are able to provide all the domestic hot water (DHW) for an individual residential user component. E-SAT and M-SAT differ in their domestic hot water priority devices: E-SAT is equipped with a flow switch and motorised priority valve, while the M-SAT is a purely mechanical system with an ultra-fast thermostatic priority sensor.

## M-SAT

Heating power (\*): approx. 12 kW

Domestic hot water output (\*\*): approx. 29 kW - production of approx. 11 l/min of domestic hot water at 48°C with mains input at 10°C

(\*) temperature difference = 10°C and pressure differential at the ends of the module = 200 mbar

(\*\*) pressure differential at module ends = 200 mbar and boiler temperature = 60°C

## E-SAT

Heating power (\*): approx. 16 kW

Domestic hot water output (\*\*): approx. 33 kW - production of approx. 12 l/min of domestic hot water at 48°C with mains input at 10°C

(\*) temperature difference = 10°C and pressure differential at the ends of the module = 200 mbar

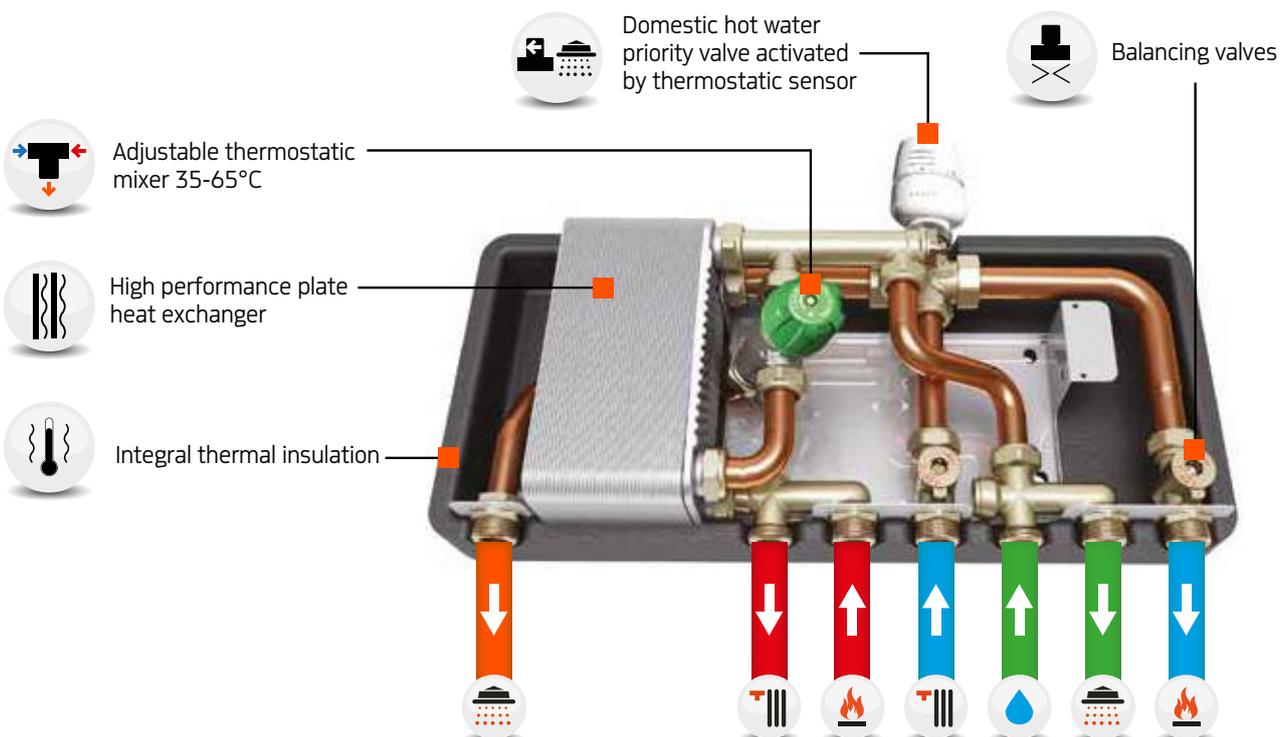
(\*\*) pressure differential at module ends = 200 mbar and boiler temperature = 60°C

## M-SAT



- Satellite di utenza per riscaldamento ad alta temperatura e produzione di acqua calda sanitaria (con valvola di precedenza sanitario con sensore termostatico).
- Satellite module for high-temperature heating and domestic hot water preparation (thermostatic priority valve)
- Satellite d'application pour le chauffage à haute température et production d'eau chaude sanitaire (valve de priorité, à contrôle thermostatique)
- Satellitenmodul für Heizen mit hoher Temperatur und Trinkwarmwasservorbereitung (Thermostat-Prioritätsventil)
- Modulo satélite para calefacción a alta temperatura y producción de agua caliente sanitaria (válvula de prioridad con control termostático)

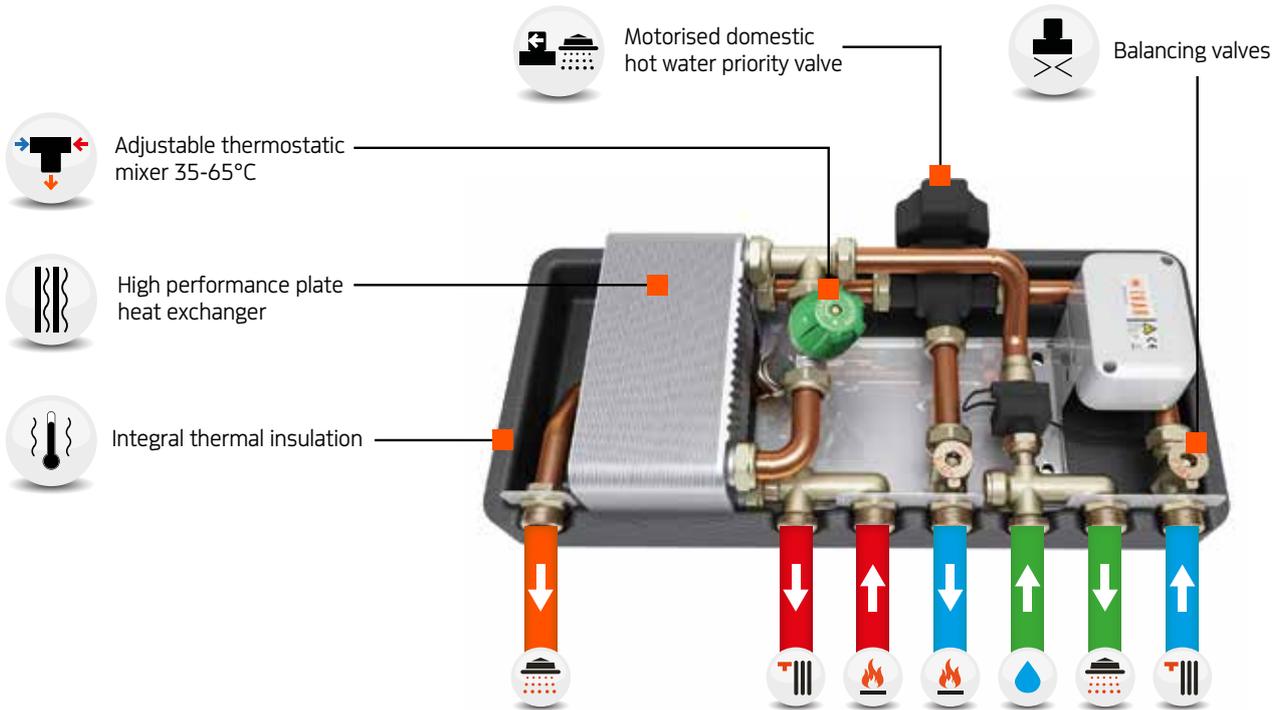
Code	Size	Price	Class	Packaging
506369	3/4" M	650,99 €	UE	1



**E-SAT**


- Satellite di utenza per riscaldamento ad alta temperatura e produzione di acqua calda sanitaria (con valvola di precedenza sanitario motorizzata).
- Satellite module for high-temperature heating and domestic hot water preparation (motorized priority valve)
- Satellite d'application pour le chauffage à haute température et production d'eau chaude sanitaire (vanne de priorité motorisée)
- Satellitenmodul für Heizen mit hoher Temperatur und Trinkwarmwasservorbereitung (motorisierte Prioritätsventil)
- Modulo satélite para calefacción a alta temperatura y producción de agua caliente sanitaria (válvula de prioridad motorizada)

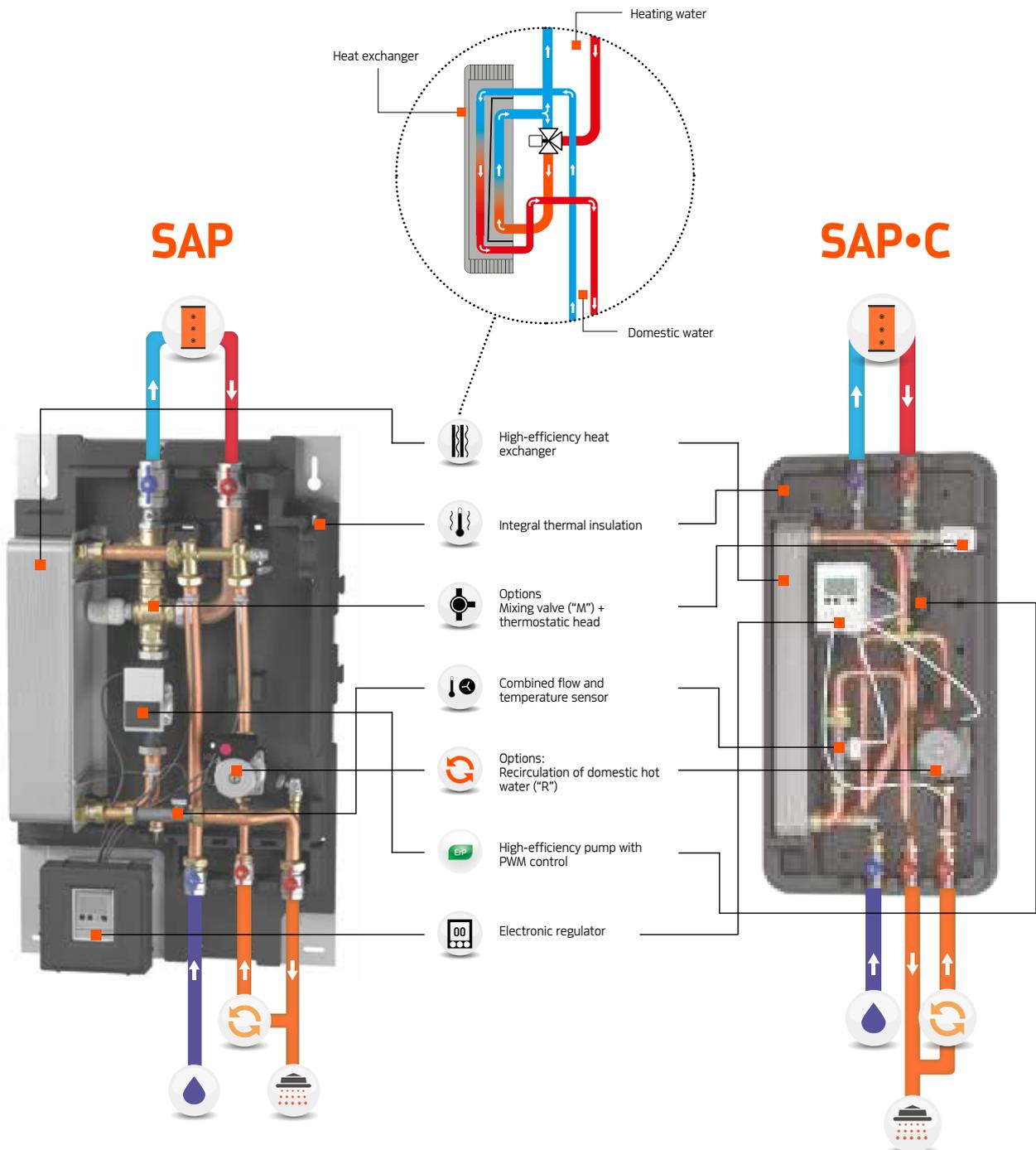
Code	Size	Price	Class	Packaging
506703	3/4" M	650,99 €	UE	1



# SAP - SAP•C

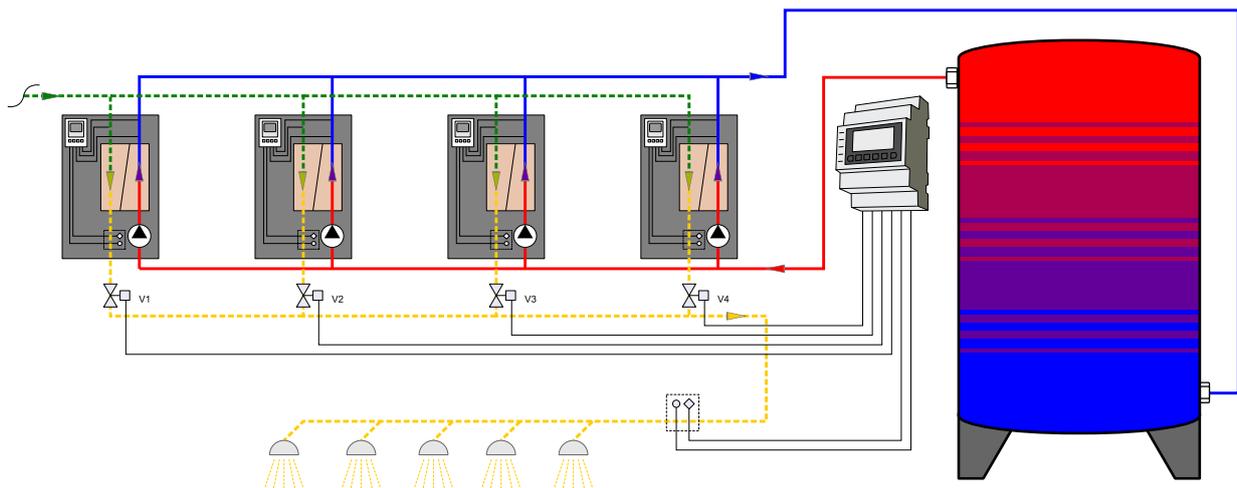
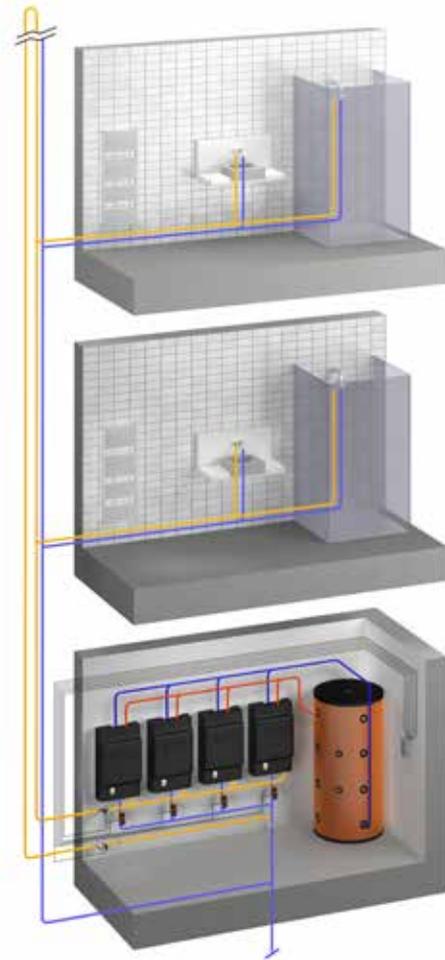
The instantaneous heating of domestic hot water (DHW) is a refined alternative to heating in a storage tank that minimises the risk of proliferation of bacteria such as legionella and allows simple and total management of the water heater function. SAP and SAP-C are DHW instantaneous heating modules suitable for multi-family and apartment building utilities. SAP / SAP-C are connected to an inertial storage tank containing primary water heated by one or more generators. This water is sent to a high efficiency heat exchanger, which instantly transfers the heat to the domestic hot water on the secondary. The primary circulator is modulated by an electronic control unit according to the temperature read by the flow/temperature sensor, installed on the DHW outlet, compared to the set point set by the user. SAP and SAP-C are available in different sizes, in variants with or without a recirculation circuit, also with mixing valves and thermostatic heads on the primary side to limit the exchanger inlet temperature. The product code refers to the maximum flow rate of domestic hot water in litres per minute that can be heated from 10°C to 45°C at a boiler temperature of 60°C.

**Attention.** The application of the KIT MIX SAP C to a SAP-C module without mixing valve will convert it into a module with a smaller mixer. For example, applying the SAP C MIX KIT to a SAP-C-30E converts it into a SAP-C-25ME.



## Can be connected in series

For systems with very high or highly variable requirements, it is possible to connect several units in parallel and operate them in series. The master management system (control unit, VFS meter and domestic hot water solenoid valves) leaves each heater the task of adjusting its operating parameters and carries out the rotation of the starts, so that the first element of the cascade is not excessively stressed.



**SAP**



- **Produttore istantaneo di acqua calda sanitaria.**
- *Fresh water station.*
- **Producteur instantané d'eau chaude sanitaire.**
- *Frishwasserstation.*
- **Productor instantáneo de agua caliente sanitaria.**



1.020 × 640 × 275 mm

Code	Domestic water units	Pump type	Erp	Included components	Price	Class	Packaging
SAP-30M	HOT 30 l/min	3-speed	-	Mixing valve	2.527,26 €	Z8	1
SAP-30MR	HOT 30 l/min	3-speed	-	Mixing valve - Recirculation	2.772,50 €	Z8	1
SAP-35	HOT 35 l/min	3-speed	-		2.338,49 €	Z8	1
SAP-35R	HOT 35 l/min	3-speed	-	Recirculation	2.583,73 €	Z8	1
SAP-40M	HOT 40 l/min	3-speed	-	Mixing valve	2.610,32 €	Z8	1
SAP-40MR	HOT 40 l/min	3-speed	-	Mixing valve - Recirculation	2.855,55 €	Z8	1
SAP-45	HOT 45 l/min	3-speed	-		2.359,35 €	Z8	1
SAP-45R	HOT 45 l/min	3-speed	-	Recirculation	2.604,59 €	Z8	1
SAP-50M	HOT 50 l/min	3-speed	-	Mixing valve	2.780,52 €	Z8	1
SAP-50MR	HOT 50 l/min	3-speed	-	Mixing valve - Recirculation	3.025,76 €	Z8	1
SAP-60	HOT 60 l/min	3-speed	-		2.603,50 €	Z8	1
SAP-60R	HOT 60 l/min	3-speed	-	Recirculation	2.848,74 €	Z8	1
SAP-70M	HOT 70 l/min	3-speed	-	Mixing valve	2.963,05 €	Z8	1
SAP-70MR	HOT 70 l/min	3-speed	-	Mixing valve - Recirculation	3.228,37 €	Z8	1
SAP-80	HOT 80 l/min	3-speed	-		2.786,03 €	Z8	1
SAP-80R	HOT 80 l/min	3-speed	-	Recirculation	3.051,35 €	Z8	1
SAP-90M	HOT 90 l/min	3-speed	-	Mixing valve	3.279,76 €	Z8	1
SAP-90MR	HOT 90 l/min	3-speed	-	Mixing valve - Recirculation	3.545,08 €	Z8	1
SAP-100	HOT 100 l/min	3-speed	-		3.102,74 €	Z8	1
SAP-100R	HOT 100 l/min	3-speed	-	Recirculation	3.368,06 €	Z8	1
SAP-30ME	HOT 30 l/min	Variable speed (PWM)	✓	Mixing valve	2.620,02 €	Z8	1
SAP-30MRE	HOT 30 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	2.865,26 €	Z8	1
SAP-35E	HOT 35 l/min	Variable speed (PWM)	✓		2.431,25 €	Z8	1
SAP-35RE	HOT 35 l/min	Variable speed (PWM)	✓	Recirculation	2.676,49 €	Z8	1
SAP-40ME	HOT 40 l/min	Variable speed (PWM)	✓	Mixing valve	2.703,08 €	Z8	1
SAP-40MRE	HOT 40 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	2.948,31 €	Z8	1
SAP-45E	HOT 45 l/min	Variable speed (PWM)	✓		2.452,11 €	Z8	1
SAP-45RE	HOT 45 l/min	Variable speed (PWM)	✓	Recirculation	2.697,35 €	Z8	1
SAP-50ME	HOT 50 l/min	Variable speed (PWM)	✓	Mixing valve	2.873,28 €	Z8	1
SAP-50MRE	HOT 50 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	3.118,52 €	Z8	1
SAP-60E	HOT 60 l/min	Variable speed (PWM)	✓		2.696,26 €	Z8	1
SAP-60RE	HOT 60 l/min	Variable speed (PWM)	✓	Recirculation	2.941,50 €	Z8	1
SAP-70ME	HOT 70 l/min	Variable speed (PWM)	✓	Mixing valve	3.370,87 €	Z8	1
SAP-70MRE	HOT 70 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	3.636,18 €	Z8	1
SAP-80E	HOT 80 l/min	Variable speed (PWM)	✓		3.193,85 €	Z8	1
SAP-80RE	HOT 80 l/min	Variable speed (PWM)	✓	Recirculation	3.459,17 €	Z8	1
SAP-90ME	HOT 90 l/min	Variable speed (PWM)	✓	Mixing valve	3.773,69 €	Z8	1
SAP-90MRE	HOT 90 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	4.039,00 €	Z8	1
SAP-100E	HOT 100 l/min	Variable speed (PWM)	✓		3.597,48 €	Z8	1
SAP-100RE	HOT 100 l/min	Variable speed (PWM)	✓	Recirculation	3.862,80 €	Z8	1

**KIT R SAP**


- **Kit di ricircolo per SAP.**
- *Recirculation kit for SAP.*
- **Kit de recirculation pour SAP.**
- *Rückführung-Bausatz für SAP.*
- **Kit de recirculación para SAP.**

Code	Module	Included components	Price	Class	Packaging
502305	SAP-##MR(E) / SAP-##R(E) ≤ 60 l/min	2-speed pump for sanitary applications	245,24 €	Z8	1
502304	SAP-##MR(E) / SAP-##R(E) > 60 l/min	2-speed pump for sanitary applications	265,32 €	Z8	1

**SAP-C**

**ErP**

- **Produttore istantaneo di acqua calda sanitaria compatto.**
- *Compact fresh water station.*
- **Producteur instantané d'eau chaude sanitaire compact.**
- *Kompakt-Frischwasserstation.*
- **Productor instantáneo de agua caliente sanitaria compacto.**


**770 × 410 × 220 mm**

Code	Domestic water units	Pump type	Included components	Price	Class	Packaging
SAP-C-25ME	HOT 25 l/min	Variable speed (PWM)	Mixing valve	2.060,05 €	Z8	1
SAP-C-25MRE	HOT 25 l/min	Variable speed (PWM)	Mixing valve - Recirculation	2.305,29 €	Z8	1
SAP-C-30E	HOT 30 l/min	Variable speed (PWM)		1.991,54 €	Z8	1
SAP-C-30RE	HOT 30 l/min	Variable speed (PWM)	Recirculation	2.236,77 €	Z8	1
SAP-C-35ME	HOT 35 l/min	Variable speed (PWM)	Mixing valve	2.143,11 €	Z8	1
SAP-C-35MRE	HOT 35 l/min	Variable speed (PWM)	Mixing valve - Recirculation	2.388,35 €	Z8	1
SAP-C-40E	HOT 40 l/min	Variable speed (PWM)		2.074,59 €	Z8	1
SAP-C-40RE	HOT 40 l/min	Variable speed (PWM)	Recirculation	2.319,83 €	Z8	1

**KIT R SAP-C**


- **Kit di ricircolo per SAP-C.**
- *Recirculation kit for SAP-C.*
- **Kit de recirculation pour SAP-C.**
- *Rückführung-Bausatz für SAP-C.*
- **Kit de recirculación para SAP-C.**

Code	Module	Included components	Price	Class	Packaging
501626	SAP-C-##MRE / SAP-C-##RE	2-speed pump for sanitary applications	239,20 €	Z8	5

**KIT MIX SAP-C**


- **Valvola miscelatrice termostatica per produttore istantaneo di acqua calda sanitaria compatto.**
- *Thermostatic mixing valve for compact fresh water station.*
- **Vanne mélangeuse thermostatique pour producteur instantané d'eau chaude sanitaire compact.**
- *Thermostat-Mischventil für Kompakt-Frischwasserstation.*
- **Válvula mezcladora termostática para productor instantáneo de agua caliente sanitaria compacto.**

Code	Size	Range	Length	Price	Class	Packaging
501625	1" - M30 x 1,5	20-60 °C	2 m	99,06 €	Z8	8 / 64

### IKK01



- Centralina elettronica per la gestione di produttori istantanei di acqua calda sanitaria in cascata.
- Electronic control unit for the management of fresh water stations in cascade control.
- Unité de contrôle électronique pour gérer des producteurs instantanés d'eau chaude sanitaire en cascade.
- Elektronische Steuereinheit für die Steuerung der Frischwasserstationen in Kaskade.
- Unidad de control electrónico para la gestión de los productores instantáneos de agua caliente sanitaria en cascada.

Code	Size	Price	Class	Packaging
IKK01	Max 4 modules	790,50 €	Z8	1

### IKK02



- Centralina elettronica per la gestione di produttori istantanei di acqua calda sanitaria in cascata, circuito di ricircolo e funzione antilegionella.
- Electronic control unit for the management of fresh water stations in cascade control, sanitary recirculation circuit and Antilegionella function.
- Unité de contrôle électronique pour gérer des producteurs instantanés d'eau chaude sanitaire en cascade, circuit de recirculation sanitaire et fonction anti-Légionelle.
- Elektronische Steuereinheit für die Steuerung der Frischwasserstationen in Kaskade, Brauchwasserrückführungskreislauf und Antilegionellen-Funktion.
- Unidad de control electrónico para la gestión de los productores instantáneos de agua caliente sanitaria en cascada, circuito de recirculación de agua doméstica y función antilegionella.

Code	Size	Price	Class	Packaging
IKK02	Max 4 modules	815,50 €	Z8	1

### VFS



- Tronchetto di misura per la gestione di produttori istantanei di acqua calda sanitaria in cascata.
- Measuring block for the management of fresh water stations in cascade control.
- Élément de mesure pour gérer des producteurs instantanés d'eau chaude sanitaire en cascade.
- Meßstutzen für die Steuerung der Frischwasserstationen in Kaskade.
- Elemento de medición para la gestión de los productores instantáneos de agua caliente sanitaria en cascada.

Code	Size	Range	Price	Class	Packaging
78040	3/4" M x 1" F	2-40 l/min	267,10 €	Z6	1
78100	1" M x 1" F	5-100 l/min	228,06 €	Z6	1
78400	1"1/2 M x 1"1/2 F	20-400 l/min	484,12 €	Z8	1

### VS SAP



- Valvola a sfera a 2 vie motorizzata ad apertura rapida per applicazioni sanitarie (valvola e motore venduti separatamente).
- Quick-opening 2-way motorised ball valve suitable to domestic water applications (valve and motor sold separately).
- Vanne à bille à 2 voies motorisée avec ouverture rapide pour des applications sanitaires (vanne et moteur vendus séparément).
- Motorisierbares 2-Wege Kugelventil mit Schnellöffnung für Sanitäranwendungen (Ventil und Motor werden als getrennte Komponenten verkauft).
- Válvula de bola de 2 vías motorizada de apertura rápida para aplicaciones sanitarias (la válvula y el motor se venden como componentes separados).

Code	Component	Price	Class	Packaging
IKLRQ24A	Motor 24 V AC	610,00 €	Z8	1
IKR415D	2-way valve G 1" (DN 15) - KVs 12	384,00 €	Z8	1

**IFWC3**


- **Regolatore elettronico di ricambio per SAP con pompa standard a 3 velocità.**
- *Spare controller for SAP modules.*
- **Unité de contrôle de rechange pour modules SAP.**
- *Ersatzregler für SAP-Module .*
- **Regulador de reposición para módulos SAP.**

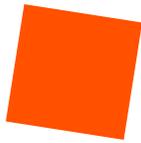
Code	Module	Price	Class	Packaging
43000	SAP-xx	333,10 €	Z6	1

**PT 1000**


- **Sonda di temperatura con cavo in silicone.**
- *Temperature probe with silicone cable.*
- **Sonde de température avec câble en silicone.**
- *Temperatursonde mit Kabel aus Silikon.*
- **Sonda de temperatura Pt1000 con cable de silicona.**

Code	Type	Max operating temp.	Length	Price	Class	Packaging
81215	Contact	180 °C	1.50 m	22,90 €	Z8	1





# SANITARY SYSTEMS



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**DOWNLOAD**  
Profundizaciones técnicas



	<p><b>Collettori sanitari IS•BOX</b>  <i>Sanitary manifolds IS•BOX</i>  <b>Collecteurs sanitaires IS•BOX</b>  <i>Sanitär-Verteiler IS•BOX</i>  <b>Colectores sanitarios IS•BOX</b></p>	474
	<p><b>Collettori componibili EASY•LOCK</b>  <i>Modular manifolds EASY•LOCK</i>  <b>Collecteurs à éléments EASY•LOCK</b>  <i>Einbauverteiler EASY•LOCK</i>  <b>Colectores componibles EASY•LOCK</b></p>	480
	<p><b>Collettori componibili serie BASIC</b>  <i>Modular manifolds BASIC series</i>  <b>Collecteurs à éléments de la série BASIC</b>  <i>Einbauverteiler BASIC-Serie</i>  <b>Colectores componibles de la serie BASIC</b></p>	490
	<p><b>Accessori e raccordi per collettori sanitari</b>  <i>Accessories and fittings for sanitary manifolds</i>  <b>Accessoires et raccords pour collecteurs sanitaires</b>  <i>Zubehör und Verbinder für Sanitärverteiler</i>  <b>Accesorios y racores para colectores sanitarios</b></p>	494
	<p><b>RTV - valvola termostatica per il controllo della temperatura dei rami di ricircolo sanitario</b>  <i>RTV - thermostatic valve for temperature control of sanitary recirculation circuits</i>  <b>RTV - robinet thermostatique pour le contrôle de la température des circuits de recirculation sanitaire</b>  <i>RTV - Thermostatventil für die Temperaturregelung der Brauchwasserrückführungskreisläufe</i>  <b>RTV - válvula termostática para el control de la temperatura de los circuitos de recirculación de agua doméstica</b></p>	500
	<p><b>LEGIO•BOX - Sistema per il controllo della temperatura e disinfezione termica</b>  <i>LEGIO•BOX - Temperature control and thermal disinfection system</i>  <b>LEGIO•BOX - Système pour le contrôle de la température et la désinfection thermique</b>  <i>LEGIO•BOX - System zur Temperaturkontrolle und thermischen Desinfektion</i>  <b>LEGIO•BOX - Sistema para el control de la temperatura y desinfección térmica</b></p>	502
	<p><b>Miscelatori termostatici</b>  <i>Thermostatic blenders</i>  <b>Limiteurs de température</b>  <i>Thermostat-Mischer</i>  <b>Mezcladores termostáticos</b></p>	504
	<p><b>Gruppi di sicurezza</b>  <i>Safety units</i>  <b>Groupes de sécurité</b>  <i>Sicherheitsaggregate</i>  <b>Grupos de seguridad</b></p>	508
	<p><b>SAFEMIX - Gruppi di sicurezza con miscelatore termostatico integrato</b>  <i>SAFEMIX - Safety units with integrated thermostatic blender</i>  <b>SAFEMIX - Groupes de sécurité avec limiteur de température intégré</b>  <i>SAFEMIX - Sicherheitsaggregate mit ergänzt Thermostat-Mischer</i>  <b>SAFEMIX - Grupos de seguridad con mezclador termostático integrado</b></p>	512



**Valvole di sicurezza**  
*Safety valves*  
**Clapets de sécurité**  
*Sicherheitsventile*  
**Válvulas de seguridad**

514



**Valvole di ritegno**  
*Check valves*  
**Clapets de retenue**  
*Rückhalteventile*  
**Válvulas de retención**

516



**Filtri**  
*Strainers*  
**Filtres**  
*Filter*  
**Filtros**

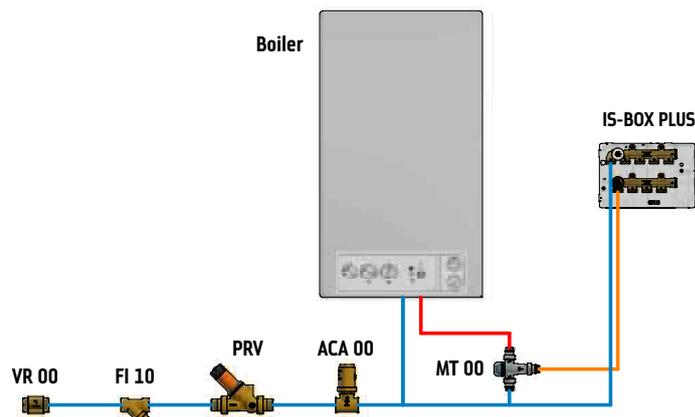
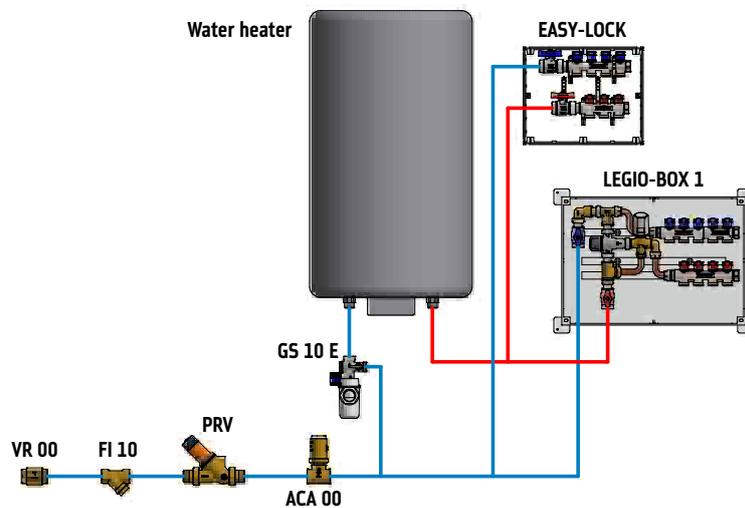
517



**Riduttori di pressione**  
*Pressure reducing valves*  
**Réducteurs de pression**  
*Druckminderer*  
**Reductores de presión**

518

## INSTALLATION LAYOUTS



IS•BOX is a box with a pair of DHW manifolds with 3+1 and 4+1 pre-fitted outlets, designed for recess wall-mounting including in bathrooms with tiled walls. The compact dimensions also enable installation in masonry or gypsum board walls with a minimum thickness of 60 mm. The manifolds are drinking water compatible and have inlets with shutoff provision by means of screw-seal valves and replaceable hardware. Available in two colours (white and chrome finish); also in completely accessible versions.

The IS•BOX range has been expanded with two new products: IS•BOX Plus and IS•BOX MPlus, which combine the advantages of a standard IS•BOX with the flexibility of the modular DHW manifolds EASY•LOCK, enabling the personalisation of both manifold models and number of outlets required. The MPlus version is equipped with an adjustable thermostatic mixer with anti-scald function, to prevent delivery to water terminals at excessively high temperatures.

#### Materials

Brass parts: CW617N

Sealing elements: peroxide EPDM

#### Technical specifications

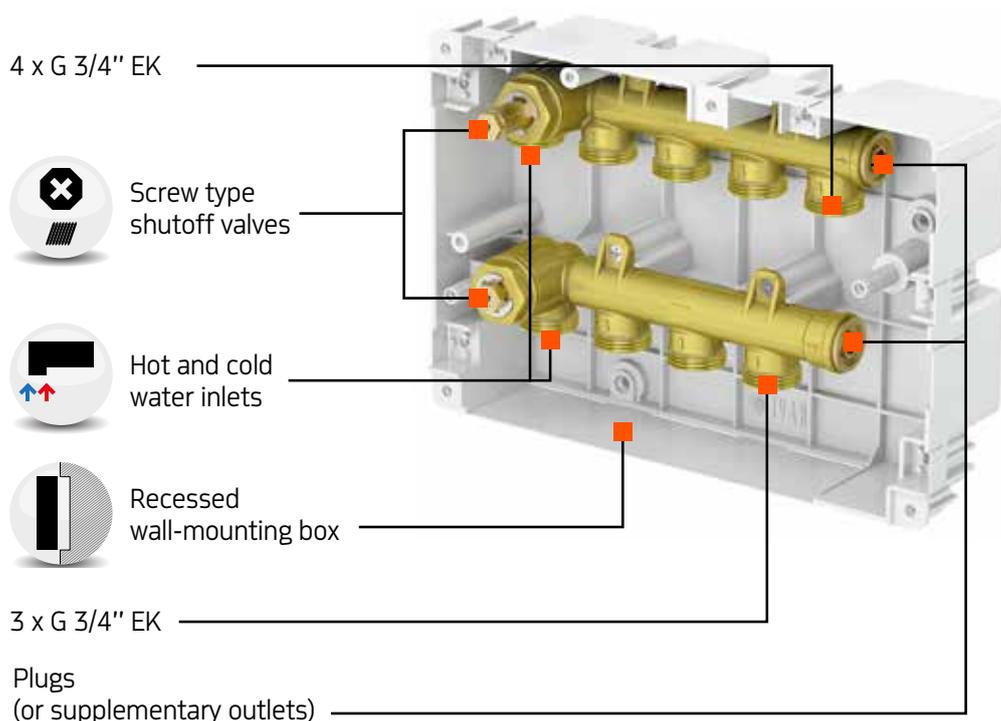
Max. fluid temperature inside manifold: 100 °C

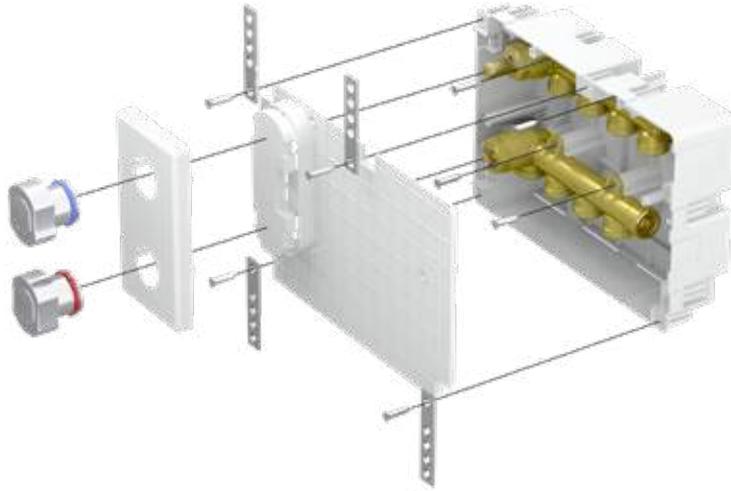
Maximum operating pressure: 10 bar

## ⊕ PLUS (IS•BOX)

- Compact solution ideal for thin walls (installation thickness of only 60 mm)
- Available with white or chrome finish
- Completely pre-assembled

### IS•BOX



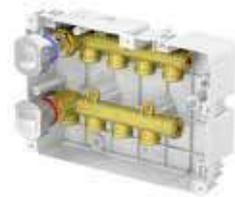
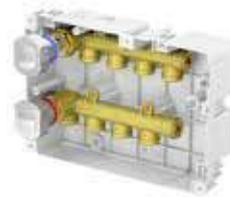


BASIC VERSION

INSPECTABLE

WITH SHUTOFF OPTION  
WITHOUT REMOVING BACKPLATE

WITH SHUTOFF OPTION  
WITHOUT REMOVING BACKPLATE  
 INSPECTABLE



■ IS-BOX 1



182 × 267 × 60 mm

- IS-BOX base.
- IS-BOX basic.
- IS-BOX de base.
- IS-BOX Basis.
- IS-BOX base.

Code	Hot / Cold ways	Size	Color	Price	Class	Packaging
506592	3 HOT / 4 COLD	EUROK	□	131,77 €	OC	1 / 4
506592CR	3 HOT / 4 COLD	EUROK	■	137,52 €	OC	1 / 4

■ IS-BOX 2



182 × 267 × 60 mm

- IS-BOX ispezionabile.
- Inspectable IS-BOX.
- IS-BOX inspectionnable.
- IS-BOX zu inspizieren.
- IS-BOX inspeccionable.

Code	KIT 2 IS-BOX	Hot / Cold ways	Size	Color	Price	Class	Packaging
506593	✓	3 HOT / 4 COLD	EUROK	□	139,09 €	OC	1 / 4
506593CR	✓	3 HOT / 4 COLD	EUROK	■	171,59 €	OC	1 / 4

■ IS-BOX 3



182 × 267 × 60 mm

- IS-BOX con manopole di intercettazione cromate.
- IS-BOX with isolation chrome knobs.
- IS-BOX avec poignées d'interception chromées.
- IS-BOX zu inspizieren.
- IS-BOX con mandos de corte cromados.

Code	KIT 1 IS-BOX	Hot / Cold ways	Size	Color	Price	Class	Packaging
506594	✓	3 HOT / 4 COLD	EUROK	□	165,74 €	OC	1 / 4
506594CR	✓	3 HOT / 4 COLD	EUROK	■	172,95 €	OC	1 / 4

■ IS-BOX 4



182 × 267 × 60 mm

- IS-BOX ispezionabile con manopole di intercettazione cromate.
- Inspectable IS-BOX with isolation chrome knobs.
- IS-BOX inspectionnable avec poignées d'interception chromées.
- IS-BOX zu inspizieren mit verchromten Überwachungsknöpfen.
- IS-BOX inspeccionable con mandos de corte cromados.

Code	KIT 1 IS-BOX	KIT 2 IS-BOX	Hot / Cold ways	Size	Color	Price	Class	Packaging
506595	✓	✓	3 HOT / 4 COLD	EUROK	□	173,05 €	OC	1 / 4
506595CR	✓	✓	3 HOT / 4 COLD	EUROK	■	207,01 €	OC	1 / 4

- Raccordo per tubo in rame >>
- Fitting for copper pipe >>
- Raccord pour tube en cuivre >>
- Verschraubung für Kupferrohr >>
- Conexión para tubo de cobre >>

- Raccordo per tubo multistrato >>
- Fitting for multilayer pipe >>
- Raccord pour tube multicouche >>
- Verschraubung für Verbundrohr >>
- Conexión para tubo multicapa >>

- Raccordo per tubo in polietilene >>
- Fitting for polyethylene pipe >>
- Raccord pour tube en polyéthylène >>
- Verschraubung für PEX-Rohr >>
- Conexión para tubo de polietileno >>

**AR 22**


- Prolunga per rubinetto da incasso.
- Extension for built in valve.
- Rallonge pour robinet à encastrément.
- Verlängerung für Einbauhahn.
- Extención para grifo empotrable.

Code	Size	Price	Class	Packaging
550199	DN 15	3,34 €	IG	50 / 400

**KIT 1 IS BOX**


- Kit manopole di intercettazione cromate per IS BOX base.
- Isolation chrome knobs kit for IS BOX basic.
- Kit de poignées d'interception chromées pour IS BOX de base.
- Bausatz verchromter Überwachungsknöpfe für IS BOX Basis.
- Conjunto de mandos de corte cromados para IS BOX base.

Code	Color	Price	Class	Packaging
506650	<input type="checkbox"/>	39,87 €	OC	1 / 8
506650CR	<input checked="" type="checkbox"/>	46,92 €	OC	1 / 8

**KIT 2 IS BOX**


- Kit ispezionabile per IS BOX base.
- Inspectable kit for IS BOX basic.
- Kit inspectionnable pour IS BOX de base.
- Inspektions-Bausatz für IS BOX Basis.
- Conjunto inspeccionable para IS BOX base.

Code	Color	Price	Class	Packaging
506651	<input type="checkbox"/>	7,32 €	OC	1
506651CR	<input checked="" type="checkbox"/>	34,07 €	OC	1

**KIT 3 IS BOX**


- Placca per IS BOX con manopole di intercettazione.
- Plate for IS BOX with isolation knobs.
- Plaque pour IS BOX avec poignées d'interception.
- Platte für IS BOX zu inspizieren.
- Placa para IS BOX con mandos de corte.

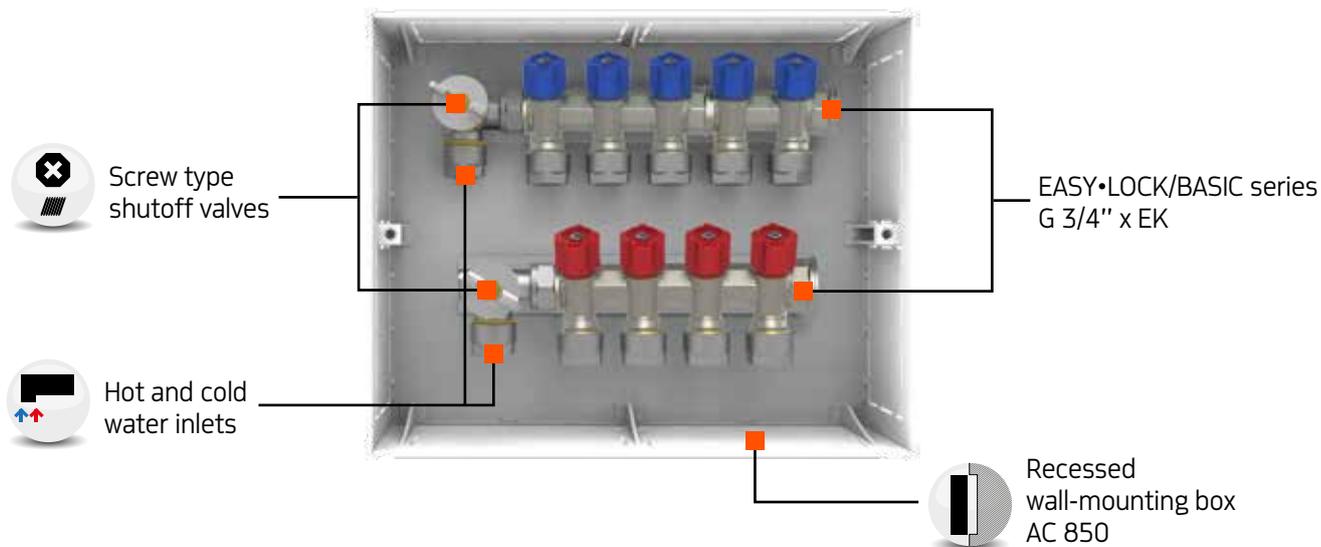
Code	Color	Price	Class	Packaging
506652	<input type="checkbox"/>	2,25 €	OC	1
506652CR	<input checked="" type="checkbox"/>	9,25 €	OC	1

**KIT 4 IS BOX**


- Placca per IS BOX base.
- Plate for IS BOX basic.
- Plaque pour IS BOX de base.
- Platte für IS BOX Basis.
- Placa para IS BOX base.

Code	Color	Price	Class	Packaging
506084	<input type="checkbox"/>	2,11 €	OC	1
506084CR	<input checked="" type="checkbox"/>	9,09 €	OC	1

### IS-BOX Plus



#### IS-BOX PLUS



- **Kit con valvole di intercettazione a vite per sistema IS-BOX Plus e dadi girevoli da 3/4" F per montaggio collettori serie EASY-LOCK / BASIC.**
- *Kit including isolation screw valves for IS-BOX Plus system and 3/4" F swivelling nuts for the connection of EASY-LOCK / BASIC series manifolds.*
- **Kit avec vannes d'interception à vis pour système IS-BOX Plus et écrous pivotants 3/4" F pour la connections des collecteurs de la série EASY-LOCK / BASIC.**
- *Bausatz mit Schraube-Absperrventilen für System IS-BOX Plus und drehbarer Mutter 3/4" IG für den Anschluss von Verteilern der Serie EASY-LOCK / BASIC.*
- **Kit con válvulas de cierre con tornillo para el sistema IS-BOX Plus y arandela 3/4" F para el montaje de los colectores de la serie EASY-LOCK / BASIC.**

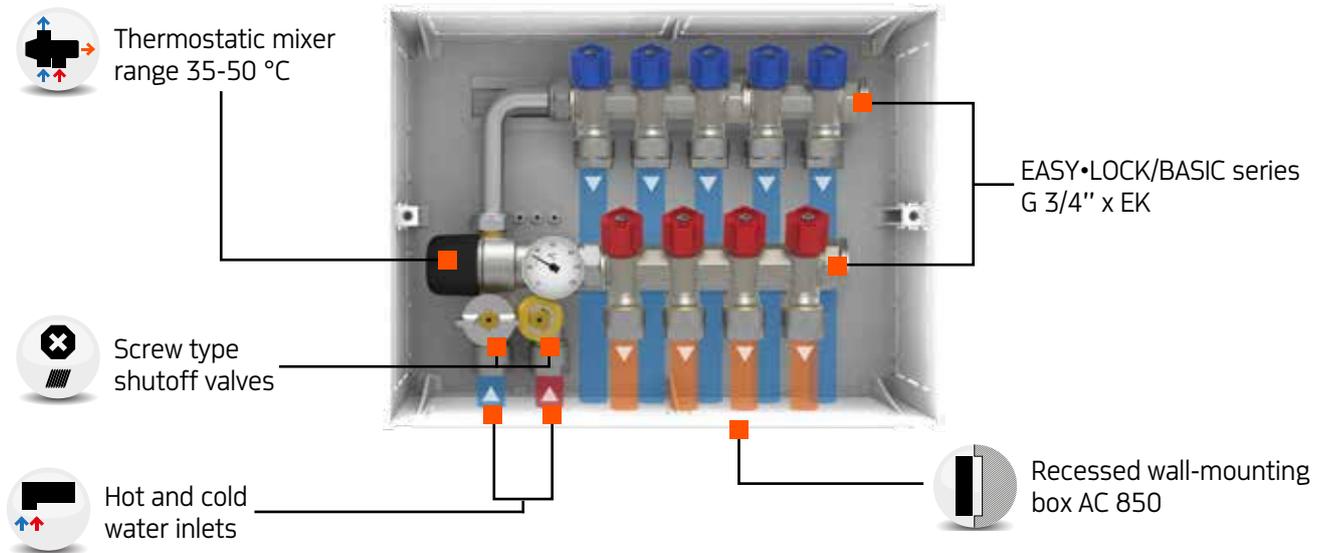
Code	Size	Suitable Cabinet	Price	Class	Packaging
506684	3/4" EUROK x 3/4" F TP	AC 850	55,16 €	OC	1



- AC 850 (cassetta abbinabile fino a 5 vie AFS + 4 vie ACS: codice SAM-032) >>p. 239,494
- AC 850 (suitable cabinet up to 5 Cold + 4 Hot ways: code SAM-032) >>p. 239,494
- AC 850 (cassette combinable jusqu'à 5 voies AFS + 4 voies ECS: code SAM-032) >>p. 239,494
- AC 850 (kombiniert Verteilerschrank bis zu 5 Kaltwasser-Wege + 4 Warmwasser-Wege: Artikelnummer SAM-032) >>p. 239,494
- AC 850 (caja combinable hasta 5 vías AFS + 4 vías ACS: código SAM-032) >>p. 239,494

- Per i collettori componibili della serie EASY-LOCK / BASIC da abbinare, vedere le sezioni seguenti.
- For the modular manifolds EASY-LOCK / BASIC series to be matched, see the following sections.
- Pour les collecteurs de la série EASY-LOCK / BASIC à combiner, voir les sections suivantes.
- Für die Einbauverteiler der Serie EASY-LOCK / BASIC zu kombinieren, beachten Sie die folgenden Abschnitte.
- Para los colectores de la serie EASY-LOCK / BASIC para combinar, consulte las siguientes secciones.

## IS•BOX MPlus



### IS-BOX MPLUS



- Kit con valvole di intercettazione a vite e miscelatore termostatico integrato per sistema IS-BOX MPlus con dadi girevoli da 3/4" F per montaggio collettori serie EASY-LOCK / BASIC.
- Kit with isolation screw valves and built-in thermostatic blender for IS-BOX MPlus system with 3/4" F swiveling nuts for the connection of EASY-LOCK / BASIC series manifolds.
- Kit avec vannes d'interception à vis et limiteur de température intégré pour système IS-BOX MPlus avec écrous pivotants 3/4" F pour la connections des collecteurs de la série EASY-LOCK / BASIC.
- Bausatz mit Schraube-Absperrventilen und ergänzt Thermostat-Mischer für System IS-BOX MPlus mit drehbarer Mutter 3/4" IG für den Anschluss von Verteilern der Serie EASY-LOCK / BASIC.
- Kit con válvulas de cierre con tornillo y mezclador termostático integrado para el sistema IS-BOX MPlus con arandela 3/4" F para el montaje de los colectores de la serie EASY-LOCK / BASIC.

Code	Size	Range	Suitable Cabinet	Price	Class	Packaging
506664	3/4" EUROK x 3/4" F TP	35-50 °C	AC 850	175,02 €	OC	1



- AC 850 (cassetta abbinabile fino a 5 vie AFS + 4 vie ACS: codice SAM-032) >>p. 239,494
- AC 850 (suitable cabinet up to 5 Cold + 4 Hot ways: code SAM-032) >>p. 239,494
- AC 850 (cassette combinable jusqu'à 5 voies AFS + 4 voies ECS: code SAM-032) >>p. 239,494
- AC 850 (kombiniert Verteilerschrank bis zu 5 Kaltwasser-Wege + 4 Warmwasser-Wege: Artikelnummer SAM-032) >>p. 239,494
- AC 850 (caja combinable hasta 5 vías AFS + 4 vías ACS: código SAM-032) >>p. 239,494

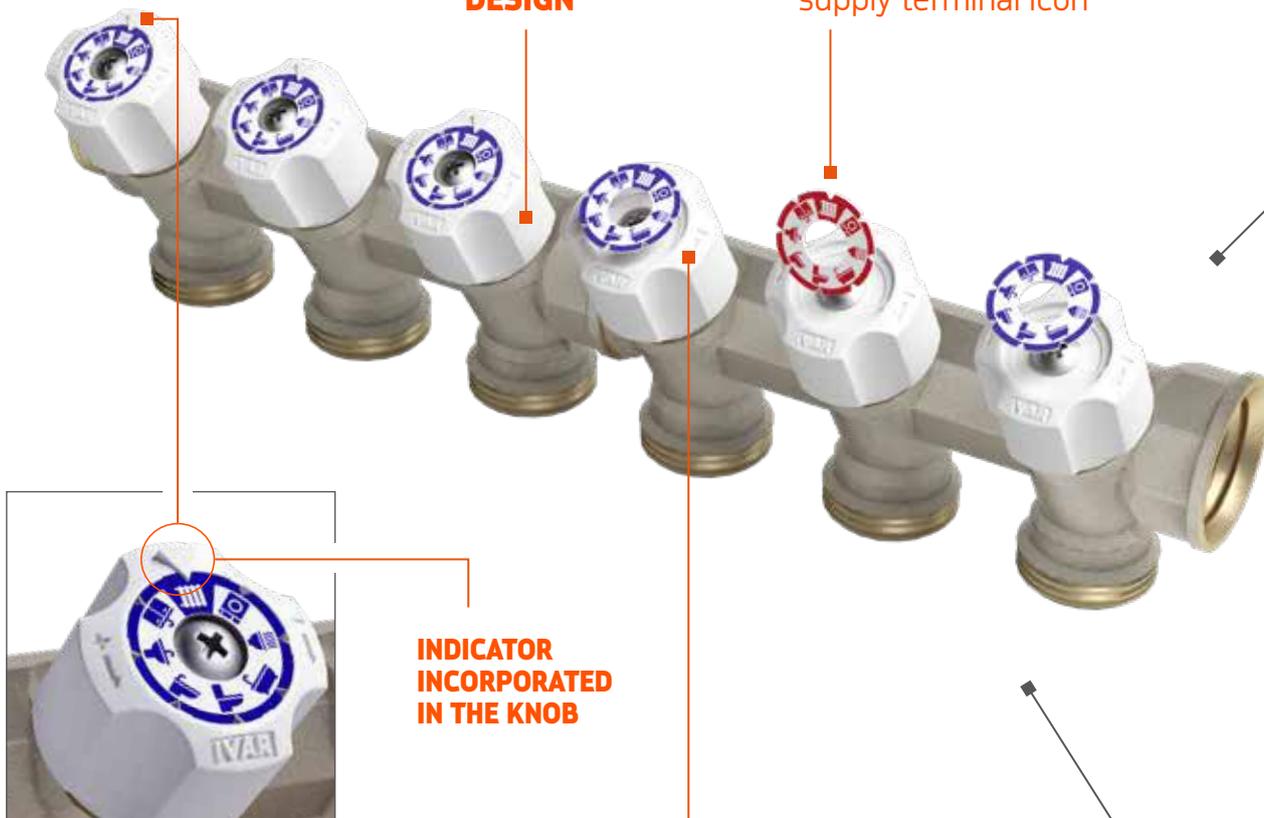
- Per i collettori componibili della serie EASY-LOCK / BASIC da abbinare, vedere le sezioni seguenti.
- For the modular manifolds EASY-LOCK / BASIC series to be matched, see the following sections.
- Pour les collecteurs de la série EASY-LOCK / BASIC à combiner, voir les sections suivantes.
- Für die Einbauteiler der Serie EASY-LOCK / BASIC zu kombinieren, beachten Sie die folgenden Abschnitte.
- Para los colectores de la serie EASY-LOCK / BASIC para combinar, consulte las siguientes secciones.

# EASY•LOCK

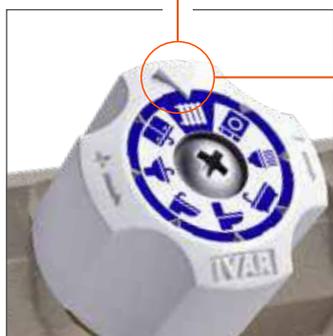
The EASY•LOCK range of manifolds connect together in a simple and practical manner. Thanks to the offset design of the threads, EASY•LOCK manifolds remain aligned and the action of an O-ring ensures perfect sealing efficiency. This means there is no need for additional sealing elements such as hemp or PTFE or the use of additional sealants. The manifolds are nickel plated on the exterior only, and therefore remain yellow on the inside, ensuring conformity for conveying potable water.

Knobs with  
**NEW ERGONOMIC  
DESIGN**

**SINGLE REVERSIBLE  
PLATE** (hot/cold) with  
supply terminal icon



**INDICATOR  
INCORPORATED  
IN THE KNOB**



**NEW EASY-LABEL  
TECHNOLOGY:**

it is not necessary to  
remove the screw to  
insert the reversible  
plate, thanks to the  
interlocking positioning



**Materials**

Brass parts: CW617N nickel-plated on exterior only  
Sealing elements: peroxide EPDM

**Technical specifications**

Max. fluid temperature inside manifold: 100 °C  
Maximum operating pressure: 10 bar  
Outlet interaxis: 40 mm



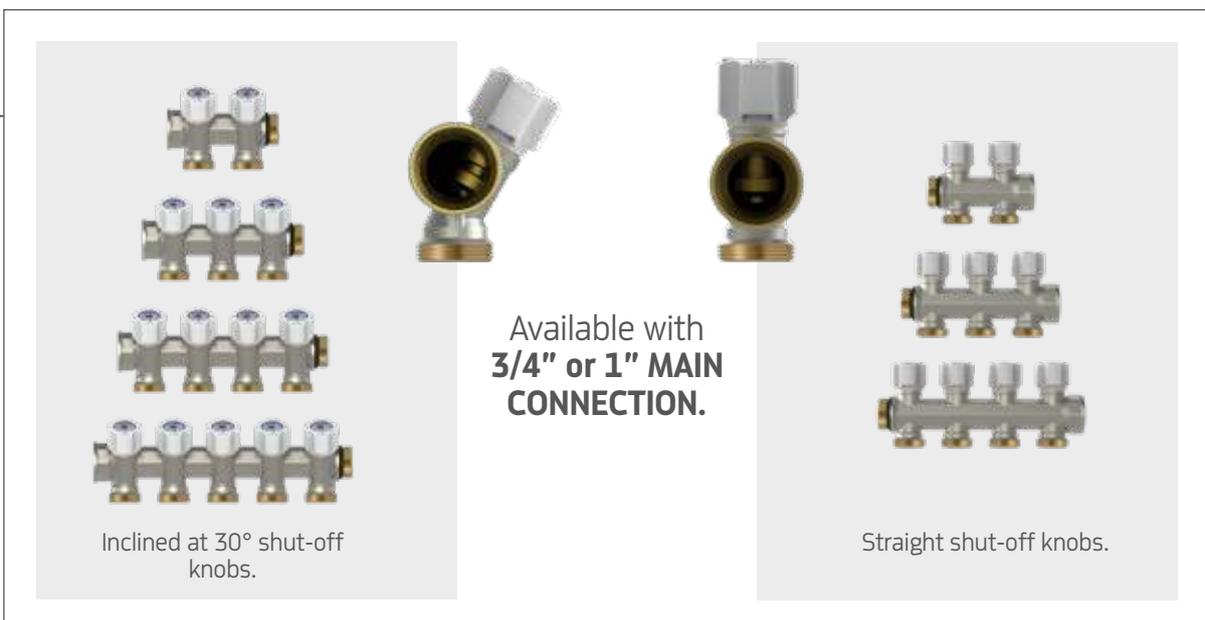
**AUTOMATIC ALIGNMENT BY HAND THANKS TO OFFSET THREADS.**

NO tightening tool is required.



**O-RING FOR SOFT SEAL:**

no additional sealant such as hemp or Teflon required.

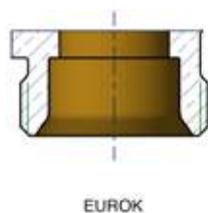


Available with  
**3/4" or 1" MAIN CONNECTION.**

Inclined at 30° shut-off knobs.

Straight shut-off knobs.

**EASY•LOCK manifolds with EUROK connections and suitable fittings**



- A) MPL 5705 >> p. 133
- B) MP 5705 >> p. 117
- C) TR 4430 >> p. 497
- D) TP 4410 >> p. 497
- E) TA 4420 >> p. 496



**CI 490 NB**



- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valve.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbarentventile mit manueller Hebel.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual.



Code	Ways	Size	OC distance	Color	Price	Class	Packaging
507300NB	2	3/4" x EUROK	40 mm	■	15,43 €	NG	8 / 32
507301NB	3	3/4" x EUROK	40 mm	■	20,74 €	NG	5 / 20
507302NB	4	3/4" x EUROK	40 mm	■	26,31 €	NG	4 / 16
507320NB	2	1" x EUROK	40 mm	■	17,25 €	NG	8 / 32
507321NB	3	1" x EUROK	40 mm	■	23,48 €	NG	5 / 20
507322NB	4	1" x EUROK	40 mm	■	29,39 €	NG	4 / 16

**CI 490 NR**



- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valve.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbarentventile mit manueller Hebel.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual.



Code	Ways	Size	OC distance	Color	Price	Class	Packaging
507300NR	2	3/4" x EUROK	40 mm	■	15,43 €	NG	8 / 32
507301NR	3	3/4" x EUROK	40 mm	■	20,74 €	NG	5 / 20
507302NR	4	3/4" x EUROK	40 mm	■	26,31 €	NG	4 / 16
507320NR	2	1" x EUROK	40 mm	■	17,25 €	NG	8 / 32
507321NR	3	1" x EUROK	40 mm	■	23,48 €	NG	5 / 20
507322NR	4	1" x EUROK	40 mm	■	29,39 €	NG	4 / 16

- Per cassette, kit di fissaggio e raccordi vedere la sezione "Accessori e raccordi per collettori sanitari".
- For cabinets, fixing kits and fittings see the "Accessories and fittings for sanitary manifolds" section.
- Pour les cassettes, les kits de fixation et les raccords, voir la section «Accessoires et raccords pour collecteurs sanitaires».
- Für Kästen, Befestigungssätzen und Verbinder beachten Sie Abschnitt „Zubehör und Verbinder für Sanitärverteiler“.
- Para cajas, kits de fijación y racores, consulte la sección "Accesorios y racores para colectores sanitarios".

**CI 490 NW**

**NEW**

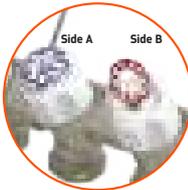
- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valve.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbarentventile mit manueller Hebel.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual.

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
507322NW	4	1" x EUROK	40 mm	<input type="checkbox"/>	29,39 €	NG	4 / 16
507300NW	2	3/4" x EUROK	40 mm	<input type="checkbox"/>	15,43 €	NG	8 / 32
507301NW	3	3/4" x EUROK	40 mm	<input type="checkbox"/>	20,74 €	NG	5 / 20
507302NW	4	3/4" x EUROK	40 mm	<input type="checkbox"/>	26,31 €	NG	4 / 16
507320NW	2	1" x EUROK	40 mm	<input type="checkbox"/>	17,25 €	NG	8 / 32
507321NW	3	1" x EUROK	40 mm	<input type="checkbox"/>	23,48 €	NG	5 / 20

**CI 490 N**

**NEW**

- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale e piastrina reversibile (calda/fredda) con indicazione del terminale di erogazione.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves and reversible plate (hot/cold) showing the element connected to the corresponding outtake.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle et plaque réversible (chaud / froid) avec indication du terminal de distribution.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbarentventile mit manueller Hebel und reversibler Platte (warm / kalt) mit Angabe des Ausgabe-Terminal.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual y placa reversible (fría / caliente) con indicación de la terminal de dispensación.

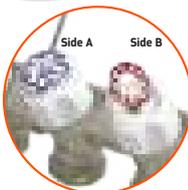


Code	Ways	Size	OC distance	Color	Price	Class	Packaging
507300N	2	3/4" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	16,29 €	NG	8 / 32
507301N	3	3/4" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	22,12 €	NG	5 / 20
507302N	4	3/4" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	28,15 €	NG	4 / 16
507320N	2	1" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	18,05 €	NG	8 / 32
507321N	3	1" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	24,68 €	NG	5 / 20
507322N	4	1" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	30,70 €	NG	4 / 16

**CI 390 N**

**NEW**

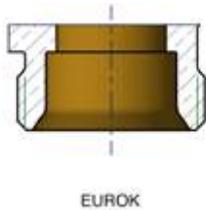
- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale, piastrina reversibile (calda/fredda) con indicazione del terminale di erogazione e attacchi inclinati a 30 °.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves, reversible plate (hot/cold) showing the element connected to the corresponding outtake and 30 ° inclined connections.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle, plaque réversible (chaud / froid) avec indication du terminal de distribution et embouts inclinés à 30 °.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbarentventile mit manueller Hebel, reversible Platte (warm / kalt) mit Angabe des Ausgabe-Terminal und bei 30 ° geneigt Anschließen.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual, placa reversible (fría / caliente) con indicación de la terminal de dispensación y conexiones inclinadas en 30 °



Code	Ways	Size	OC distance	Color	Price	Class	Packaging
507800N	2	3/4" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	20,20 €	NG	8 / 32
507801N	3	3/4" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	28,27 €	NG	5 / 20
507802N	4	3/4" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	36,28 €	NG	4 / 16
507830N	5	3/4" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	47,61 €	NG	5
507815N	2	1" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	23,23 €	NG	8 / 32
507816N	3	1" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	31,37 €	NG	5 / 20
507817N	4	1" x EUROK	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	39,51 €	NG	4 / 16

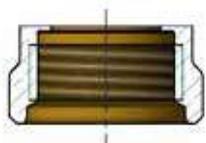
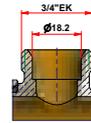
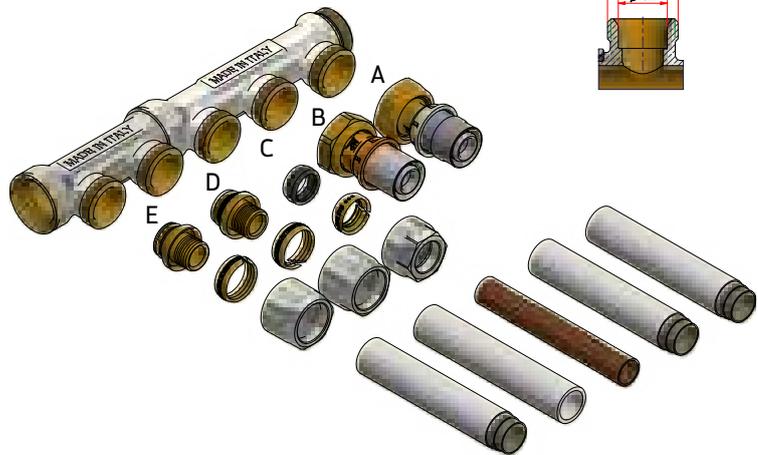
- Per cassette, kit di fissaggio e raccordi vedere la sezione "Accessori e raccordi per collettori sanitari".
- For cabinets, fixing kits and fittings see the "Accessories and fittings for sanitary manifolds" section.
- Pour les cassettes, les kits de fixation et les raccords, voir la section «Accessoires et raccords pour collecteurs sanitaires».
- Für Kästen, Befestigungssätzen und Verbinder beachten Sie Abschnitt „Zubehör und Verbinder für Sanitärverteiler“.
- Para cajas, kits de fijación y racores, consulte la sección "Accesorios y racores para colectores sanitarios".

**EASY•LOCK manifolds (CS 200 N) with EUROK and 1/2" F connections and suitable fittings**



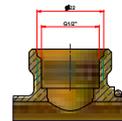
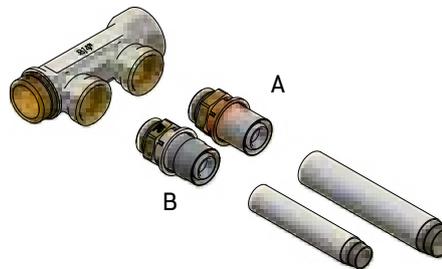
EUROK

- A) MPL 5705 >> p. 133
- B) MP 5705 >> p. 117
- C) TR 4430 >> p. 497
- D) TP 4410 >> p. 497
- E) TA 4420 >> p. 496



G 1/2" F

- A) MP 5609 >> p. 115
- B) MPL 5609 >> p. 132



■ CS 200 N

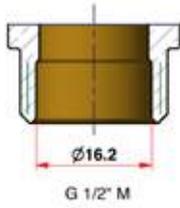


- Collettore componibile semplice serie EASY LOCK (interasse 40 mm).
- Modular plain manifold EASY LOCK series (centre-to-centre distance 40 mm).
- Collecteur simple à éléments série EASY LOCK (empannement 40 mm).
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm).
- Colector componible simple serie EASY LOCK (distancia entre ejes 40 mm).

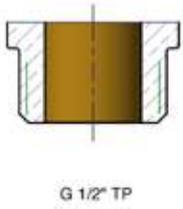
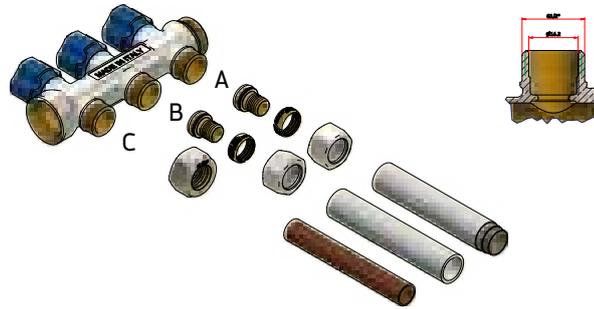


Code	Ways	Size	OC distance	Price	Class	Packaging
501705N	2	3/4" x EUROK	40 mm	10,09 €	NG	80
501707N	3	3/4" x EUROK	40 mm	12,15 €	NG	54
501709N	4	3/4" x EUROK	40 mm	15,66 €	NG	40
501701N	2	3/4" x 1/2" F	40 mm	10,09 €	NG	80
501702N	3	3/4" x 1/2" F	40 mm	12,15 €	NG	54
501703N	4	3/4" x 1/2" F	40 mm	15,66 €	NG	40
501685N	2	1" x EUROK	40 mm	11,43 €	NG	70
501687N	3	1" x EUROK	40 mm	14,21 €	NG	50
501689N	4	1" x EUROK	40 mm	18,13 €	NG	30
501681N	2	1" x 1/2" F	40 mm	11,43 €	NG	70
501682N	3	1" x 1/2" F	40 mm	14,21 €	NG	50
501683N	4	1" x 1/2" F	40 mm	18,13 €	NG	30

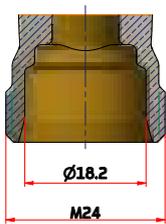
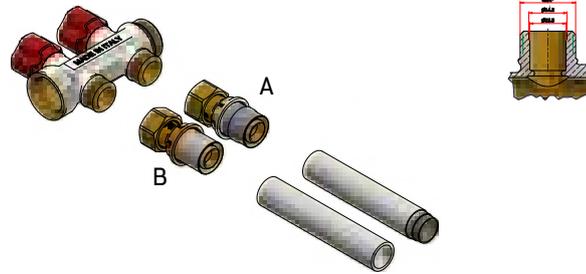
**EASY-LOCK manifolds with 1/2" M, 1/2" M TP and M24x1,5 connections and suitable fittings**



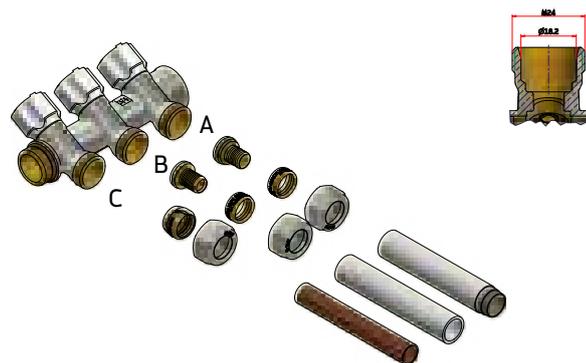
- A) TA 420 P >> p. 498
- B) TP 410 P >> p. 498
- C) TR 430 P >> p. 498



- A) MPL 5703 >> p. 133
- B) MP 5703 >> p. 117



- A) TA 420 >> p. 499
- B) TP 410 >> p. 499
- C) TR 430 >> p. 499



■ CI 400 NB



- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbareventile mit manueller Hebel.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual.

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506312NB	2	3/4" x 1/2" M	40 mm	■	15,43 €	NG	55
506313NB	3	3/4" x 1/2" M	40 mm	■	20,74 €	NG	35
506314NB	4	3/4" x 1/2" M	40 mm	■	26,31 €	NG	28
506316NB	2	3/4" x 1/2" M TP	40 mm	■	15,43 €	NG	55
506317NB	3	3/4" x 1/2" M TP	40 mm	■	20,74 €	NG	35
506318NB	4	3/4" x 1/2" M TP	40 mm	■	26,31 €	NG	28
506304NB	2	3/4" x M24x1,5	40 mm	■	15,43 €	NG	55
506305NB	3	3/4" x M24x1,5	40 mm	■	20,74 €	NG	35
506306NB	4	3/4" x M24x1,5	40 mm	■	26,31 €	NG	28
506324NB	2	1" x M24x1,5	40 mm	■	17,25 €	NG	45
506325NB	3	1" x M24x1,5	40 mm	■	23,48 €	NG	30
506326NB	4	1" x M24x1,5	40 mm	■	29,39 €	NG	20

■ CI 400 NR



- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbareventile mit manueller Hebel.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual.

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506312NR	2	3/4" x 1/2" M	40 mm	■	15,43 €	NG	55
506313NR	3	3/4" x 1/2" M	40 mm	■	20,74 €	NG	35
506314NR	4	3/4" x 1/2" M	40 mm	■	26,31 €	NG	28
506316NR	2	3/4" x 1/2" M TP	40 mm	■	15,43 €	NG	55
506317NR	3	3/4" x 1/2" M TP	40 mm	■	20,74 €	NG	35
506318NR	4	3/4" x 1/2" M TP	40 mm	■	26,31 €	NG	28
506304NR	2	3/4" x M24x1,5	40 mm	■	15,43 €	NG	55
506305NR	3	3/4" x M24x1,5	40 mm	■	20,74 €	NG	35
506306NR	4	3/4" x M24x1,5	40 mm	■	26,31 €	NG	28
506324NR	2	1" x M24x1,5	40 mm	■	17,25 €	NG	45
506325NR	3	1" x M24x1,5	40 mm	■	23,48 €	NG	30
506326NR	4	1" x M24x1,5	40 mm	■	29,39 €	NG	20

- Per cassette, kit di fissaggio e raccordi vedere la sezione "Accessori e raccordi per collettori sanitari".
- For cabinets, fixing kits and fittings see the "Accessories and fittings for sanitary manifolds" section.
- Pour les cassettes, les kits de fixation et les raccords, voir la section «Accessoires et raccords pour collecteurs sanitaires».
- Für Kästen, Befestigungssätzen und Verbinder beachten Sie Abschnitt „Zubehör und Verbinder für Sanitärverteiler“.
- Para cajas, kits de fijación y racores, consulte la sección "Accesorios y racores para colectores sanitarios".

**CI 400 N**


- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbareventile mit manueller Hebel.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual.

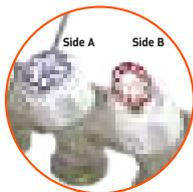
Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506312N	2	3/4" x 1/2" M	40 mm	<input type="checkbox"/>	15,43 €	NG	55
506313N	3	3/4" x 1/2" M	40 mm	<input type="checkbox"/>	20,74 €	NG	35
506314N	4	3/4" x 1/2" M	40 mm	<input type="checkbox"/>	26,31 €	NG	28
506316N	2	3/4" x 1/2" M TP	40 mm	<input type="checkbox"/>	15,43 €	NG	55
506317N	3	3/4" x 1/2" M TP	40 mm	<input type="checkbox"/>	20,74 €	NG	35
506318N	4	3/4" x 1/2" M TP	40 mm	<input type="checkbox"/>	26,31 €	NG	28
506304N	2	3/4" x M24x1,5	40 mm	<input type="checkbox"/>	15,43 €	NG	55
506305N	3	3/4" x M24x1,5	40 mm	<input type="checkbox"/>	20,74 €	NG	35
506306N	4	3/4" x M24x1,5	40 mm	<input type="checkbox"/>	26,31 €	NG	28
506324N	2	1" x M24x1,5	40 mm	<input type="checkbox"/>	17,25 €	NG	45
506325N	3	1" x M24x1,5	40 mm	<input type="checkbox"/>	23,48 €	NG	30
506326N	4	1" x M24x1,5	40 mm	<input type="checkbox"/>	29,39 €	NG	20

**CI 400 NBR**

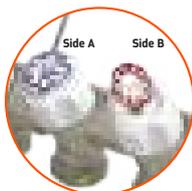

- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale e piastrina reversibile (calda/fredda) con indicazione del terminale di erogazione.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves and reversible plate (hot/cold) showing the element connected to the corresponding outtake.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle et plaque réversible (chaud / froid) avec indication du terminal de distribution.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbareventile mit manueller Hebel und reversibler Platte (warm / kalt) mit Angabe des Ausgabe-Terminal.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual y placa reversible (fría / caliente) con indicación de la terminal de dispensación.

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506312NBR	2	3/4" x 1/2" M	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	16,29 €	NG	55
506313NBR	3	3/4" x 1/2" M	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	22,12 €	NG	35
506314NBR	4	3/4" x 1/2" M	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	28,15 €	NG	28
506316NBR	2	3/4" x 1/2" M TP	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	16,29 €	NG	55
506317NBR	3	3/4" x 1/2" M TP	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	22,12 €	NG	35
506318NBR	4	3/4" x 1/2" M TP	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	28,15 €	NG	28
506304NBR	2	3/4" x M24x1,5	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	16,29 €	NG	55
506305NBR	3	3/4" x M24x1,5	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	22,12 €	NG	35
506306NBR	4	3/4" x M24x1,5	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	28,15 €	NG	28
506324NBR	2	1" x M24x1,5	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	18,05 €	NG	45
506325NBR	3	1" x M24x1,5	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	24,68 €	NG	30
506326NBR	4	1" x M24x1,5	40 mm	<input type="checkbox"/> or <input type="checkbox"/> (reversible)	30,70 €	NG	20

- Per cassette, kit di fissaggio e raccordi vedere la sezione "Accessori e raccordi per collettori sanitari".
- For cabinets, fixing kits and fittings see the "Accessories and fittings for sanitary manifolds" section.
- Pour les cassettes, les kits de fixation et les raccords, voir la section «Accessoires et raccords pour collecteurs sanitaires».
- Für Kästen, Befestigungssätzen und Verbinder beachten Sie Abschnitt „Zubehör und Verbinder für Sanitärverteiler“.
- Para cajas, kits de fijación y racores, consulte la sección "Accesorios y racores para colectores sanitarios".



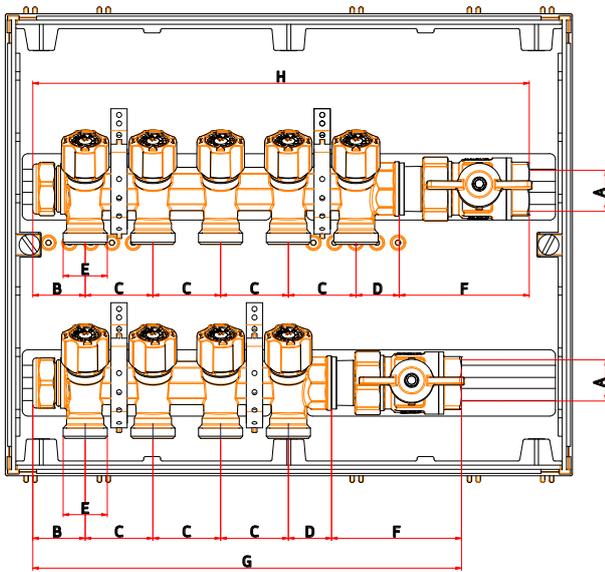
■ CI 350 N



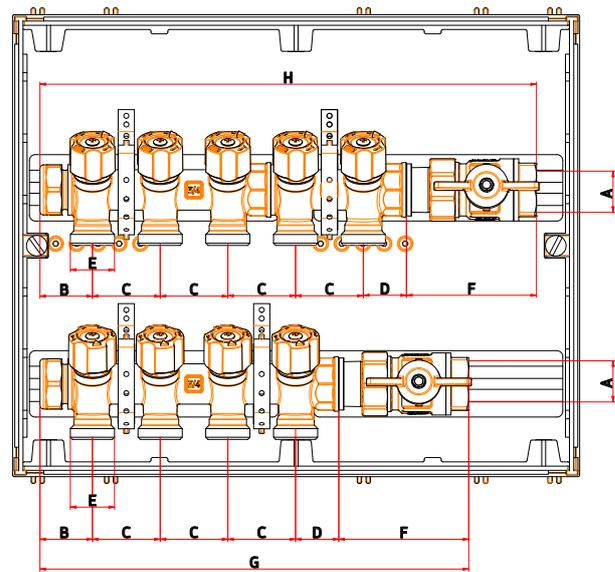
- Collettore componibile serie EASY LOCK (interasse 40 mm) con valvole di intercettazione a manovra manuale, piastrina reversibile (calda/fredda) con indicazione del terminale di erogazione e attacchi inclinati a 30 °.
- Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves, reversible plate (hot/cold) showing the element connected to the corresponding outtake and 30 ° inclined connections.
- Collecteur à éléments série EASY LOCK (empattement 40 mm) avec des vannes d'interception à manoeuvre manuelle, plaque réversible (chaud / froid) avec indication du terminal de distribution et embouts inclinés à 30 °.
- Einbauverteiler Serie EASY LOCK (Radstand 40 mm) mit Absperbareventile mit manueller Hebel, reversible Platte (warm / kalt) mit Angabe des Ausgabe-Terminal und bei 30 ° geneigt Anschließen.
- Colector componible serie EASY LOCK (distancia entre ejes 40 mm) con válvulas de cierre con cabeza manual, placa reversible (fría / caliente) con indicación de la terminal de dispensación y conexiones inclinadas en 30 °

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506806N	2	3/4" x 1/2" M	40 mm	■ or ■ (reversible)	20,20 €	NG	30
506807N	3	3/4" x 1/2" M	40 mm	■ or ■ (reversible)	28,27 €	NG	25
506808N	4	3/4" x 1/2" M	40 mm	■ or ■ (reversible)	36,28 €	NG	20
506833N	5	3/4" x 1/2" M	40 mm	■ or ■ (reversible)	47,61 €	NG	15
506809N	2	3/4" x 1/2" M TP	40 mm	■ or ■ (reversible)	20,20 €	NG	30
506810N	3	3/4" x 1/2" M TP	40 mm	■ or ■ (reversible)	28,27 €	NG	25
506811N	4	3/4" x 1/2" M TP	40 mm	■ or ■ (reversible)	36,28 €	NG	20
506834N	5	3/4" x 1/2" M TP	40 mm	■ or ■ (reversible)	47,61 €	NG	15
506812N	2	3/4" x M24x1,5	40 mm	■ or ■ (reversible)	20,20 €	NG	30
506813N	3	3/4" x M24x1,5	40 mm	■ or ■ (reversible)	28,27 €	NG	25
506814N	4	3/4" x M24x1,5	40 mm	■ or ■ (reversible)	36,28 €	NG	20
506832N	5	3/4" x M24x1,5	40 mm	■ or ■ (reversible)	47,61 €	NG	15
506827N	2	1" x M24x1,5	40 mm	■ or ■ (reversible)	23,23 €	NG	30
506828N	3	1" x M24x1,5	40 mm	■ or ■ (reversible)	31,37 €	NG	25
506829N	4	1" x M24x1,5	40 mm	■ or ■ (reversible)	39,51 €	NG	20

- Per cassette, kit di fissaggio e raccordi vedere la sezione "Accessori e raccordi per collettori sanitari".
- For cabinets, fixing kits and fittings see the "Accessories and fittings for sanitary manifolds" section.
- Pour les cassettes, les kits de fixation et les raccords, voir la section «Accessoires et raccords pour collecteurs sanitaires».
- Für Kästen, Befestigungssätzen und Verbinder beachten Sie Abschnitt „Zubehör und Verbinder für Sanitärverteiler“.
- Para cajas, kits de fijación y racores, consulte la sección "Accesorios y racores para colectores sanitarios".

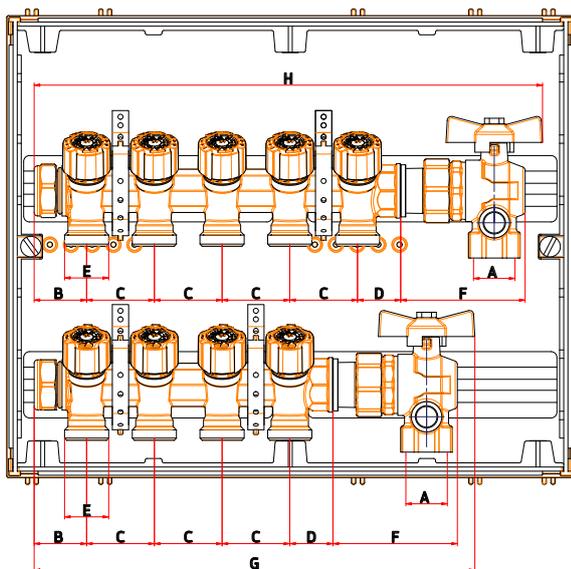
**MANIFOLD DIMENSIONS (Octagonal section) ○**


A	B	C	D	E	F	G	H
G 3/4" F	32 mm	40 mm	25,5 mm	EUROK	77 mm	254,5 mm	294,5 mm
G 1" F	34,5 mm	40 mm	25,5 mm	EUROK	80 mm	260 mm	300 mm

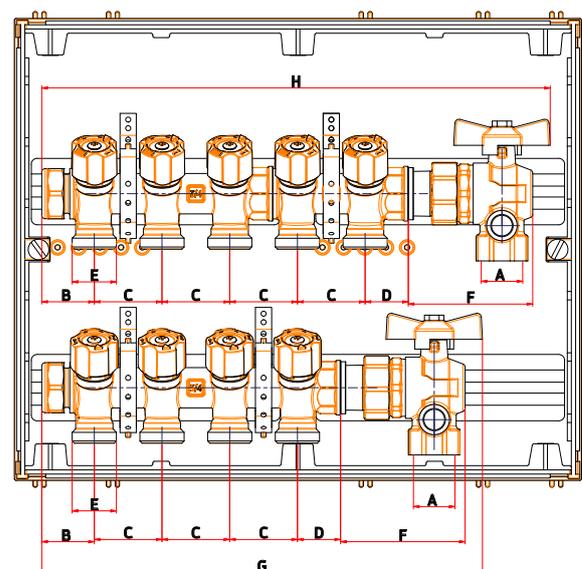
**MANIFOLD DIMENSIONS (Round section) ○**


A	B	C	D	E	F	G	H
G 3/4" F	32 mm	40 mm	25,5 mm	EUROK* 1/2" F* 1/2" M 1/2" M TP M24x1,5	77 mm	254,5 mm	294,5 mm
G 1" F	34,5 mm	40 mm	25,5 mm	EUROK* 1/2" F* M24x1,5	80 mm	260 mm	300 mm

\*CS 200 N only

**MANIFOLD DIMENSIONS (Octagonal section) ○**


A	B	C	D	E	F	G	H
G 3/4" F	32 mm	40 mm	25,5 mm	EUROK	73,5 mm	261,5 mm	301,5 mm
G 1" F	34,5 mm	40 mm	25,5 mm	EUROK	93 mm	272,5 mm	312,5 mm

**MANIFOLD DIMENSIONS (Round section) ○**


A	B	C	D	E	F	G	H
G 3/4" F	32 mm	40 mm	25,5 mm	EUROK* 1/2" F* 1/2" M 1/2" M TP M24x1,5	73,5 mm	261,5 mm	301,5 mm
G 1" F	34,5 mm	40 mm	25,5 mm	EUROK* 1/2" F* M24x1,5	93 mm	272,5 mm	312,5 mm

\*CS 200 N only

# BASIC SERIES MANIFOLDS

The BASIC series modular manifolds are a simple and effective solution for domestic water distribution. The soft seal and offset design of threads enable the assembly of multiple manifolds without the need for additional sealants, maintaining perfect alignment of the outlets. Available in 3/4" size, as well as branches with external thread of 1/2" or M24x1.5, and 2, 3 or 4 outlets.

In addition to the simple manifold, there are models with ways that can be shut off independently, offered with straight or 30° angled valves to facilitate control of operations. The valve knobs can be fitted with a red or blue cap (both included on models CI 370 NT) or a reversible red/blue tab to indicate the connected terminal (supplied with models CI 370 N).

## Materials

Brass parts: CW617N nickel-plated on exterior only  
Sealing elements: peroxide EPDM

## Technical specifications

Max. fluid temp. inside manifold: 120 °C (series CS 368 N);  
100 °C (series CI 370 N / CI 370 NT)  
Maximum operating pressure: 10 bar  
Outlet interaxis: 35 mm



**NEW EASY-LABEL TECHNOLOGY:**  
it is not necessary to remove the screw to insert the reversible plate, thanks to the interlocking positioning

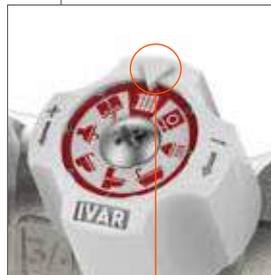
**OUTLET INTERAXIS: 35 MM**

**SINGLE REVERSIBLE PLATE** (hot/cold) with supply terminal icon

Knobs with **NEW ERGONOMIC DESIGN**



**O-RING FOR SOFT SEAL:**  
no additional sealant such as hemp or Teflon required.

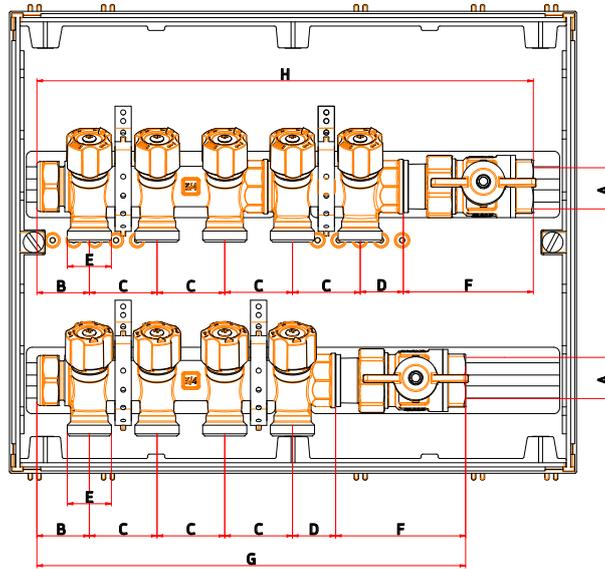


**INDICATOR INCORPORATED IN THE KNOB**

**AUTOMATIC ALIGNMENT BY HAND THANKS TO OFFSET THREADS.** NO tightening tool is required.

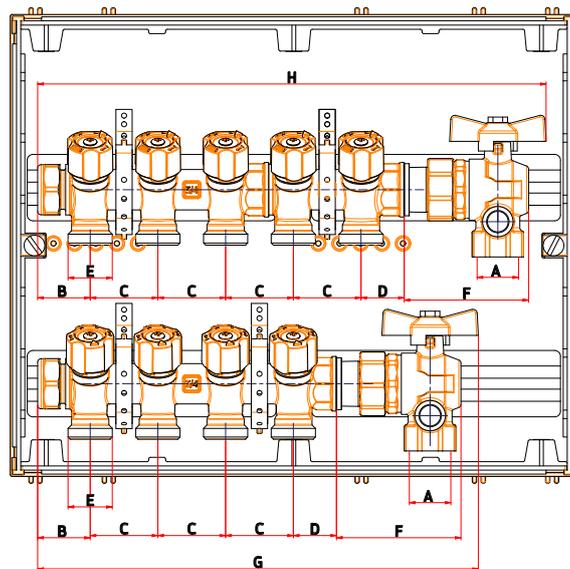


MANIFOLD DIMENSIONS +



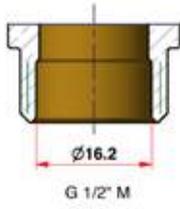
A	B	C	D	E	F	G	H
G 3/4" F	29,5 mm	35 mm	23 mm	1/2" M M24x1,5	77 mm	234,5 mm	269,5 mm

MANIFOLD DIMENSIONS +

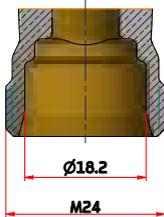
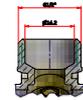
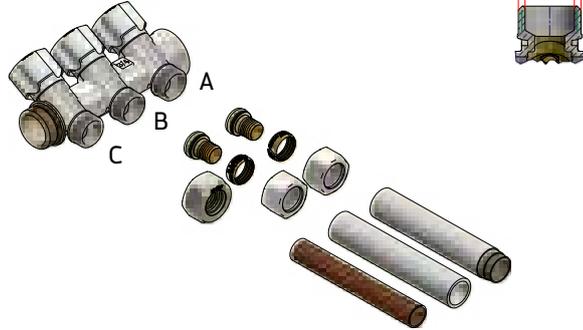


A	B	C	D	E	F	G	H
G 3/4" F	29,5 mm	35 mm	23 mm	1/2" M M24x1,5	73,5 mm	231 mm	266 mm

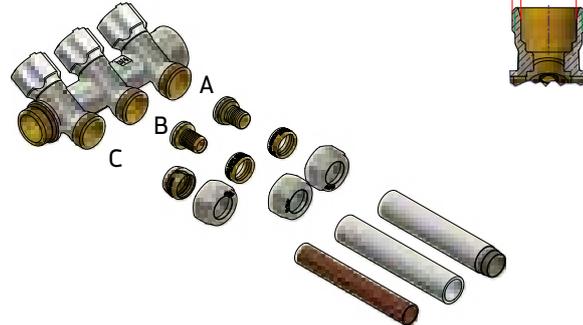
**BASIC series manifolds with 1/2" M and M24x1,5 connections and suitable fittings**



- A) TA 420 P >> p. 498
- B) TP 410 P >> p. 498
- C) TR 430 P >> p. 498



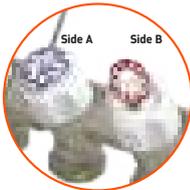
- A) TA 420 >> p. 499
- B) TP 410 >> p. 499
- C) TR 430 >> p. 499



**CS 368 N**


- Collettore componibile semplice serie BASIC (interasse 35 mm).
- Modular plain manifold BASIC series (centre-to-centre distance 35 mm).
- Collecteur simple à éléments série BASIC (empattement 35 mm).
- Einbauverteiler Serie BASIC (Radstand 35 mm).
- Colector componible simple serie BASIC (distancia entre ejes 35 mm).

Code	Ways	Size	OC distance	Price	Class	Packaging
506850N	2	3/4" x 1/2" M	35 mm	7,80 €	NG	80
506851N	3	3/4" x 1/2" M	35 mm	10,09 €	NG	54
506852N	4	3/4" x 1/2" M	35 mm	12,99 €	NG	40
506847N	2	3/4" x M24x1,5	35 mm	7,80 €	NG	80
506848N	3	3/4" x M24x1,5	35 mm	10,09 €	NG	54
506849N	4	3/4" x M24x1,5	35 mm	12,99 €	NG	40

**CI 370 N**


- Collettore componibile serie BASIC (interasse 35 mm) con valvole di intercettazione a manovra manuale, piastrina reversibile (calda/fredda) con indicazione del terminale di erogazione e attacchi inclinati a 30 °.
- Modular manifold BASIC series (centre-to-centre distance 35 mm) with manually operated isolation valves, reversible plate (hot/cold) showing the element connected to the corresponding outtake and 30 ° inclined connections.
- Collecteur à éléments série BASIC (empattement 35 mm) avec des vannes d'interception à manoeuvre manuelle, plaque réversible (chaud / froid) avec indication du terminal de distribution et embouts inclinés à 30 °.
- Einbauverteiler Serie BASIC (Radstand 35 mm) mit Absperbarenventile mit manueller Hebel, reversible Platte (warm / kalt) mit Angabe des Ausgabe-Terminal und bei 30 ° geneigt Anschließen.
- Colector componible serie BASIC (distancia entre ejes 35 mm) con válvulas de cierre con cabeza manual, placa reversible (fría / caliente) con indicación de la terminal de dispensación y conexiones inclinadas en 30 °.

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506838N	2	3/4" x 1/2" M	35 mm	■ or ■ (reversible)	15,90 €	NG	50
506839N	3	3/4" x 1/2" M	35 mm	■ or ■ (reversible)	23,53 €	NG	40
506840N	4	3/4" x 1/2" M	35 mm	■ or ■ (reversible)	30,59 €	NG	35
506835N	2	3/4" x M24x1,5	35 mm	■ or ■ (reversible)	15,90 €	NG	50
506836N	3	3/4" x M24x1,5	35 mm	■ or ■ (reversible)	23,53 €	NG	40
506837N	4	3/4" x M24x1,5	35 mm	■ or ■ (reversible)	30,59 €	NG	25

**CI 370 NT**


- Collettore componibile serie BASIC (interasse 35 mm) con valvole di intercettazione a manovra manuale e attacchi inclinati a 30 °, senza indicazione del terminale di erogazione.
- Modular manifold BASIC series (centre-to-centre distance 35 mm) with manually operated isolation valves and 30 ° inclined connections, without indication of the element connected to the corresponding outtake.
- Collecteur à éléments série BASIC (empattement 35 mm) avec des vannes d'interception à manoeuvre manuelle et embouts inclinés à 30 °, sans indication du terminal de distribution.
- Einbauverteiler Serie BASIC (Radstand 35 mm) mit Absperbarenventile mit manueller Hebel und bei 30 ° geneigt Anschließen, ohne Angabe des Ausgabe-Terminal.
- Colector componible serie BASIC (distancia entre ejes 35 mm) con válvulas de cierre con cabeza manual y conexiones inclinadas en 30 °, sin indicación de la terminal de dispensación.

Code	Ways	Size	OC distance	Color	Price	Class	Packaging
506838NT	2	3/4" x 1/2" M	35 mm	■ or ■	15,50 €	NG	50
506839NT	3	3/4" x 1/2" M	35 mm	■ or ■	22,92 €	NG	40
506840NT	4	3/4" x 1/2" M	35 mm	■ or ■	29,30 €	NG	35
506835NT	2	3/4" x M24x1,5	35 mm	■ or ■	15,50 €	NG	50
506836NT	3	3/4" x M24x1,5	35 mm	■ or ■	22,92 €	NG	40
506837NT	4	3/4" x M24x1,5	35 mm	■ or ■	29,30 €	NG	25

- Per cassette, kit di fissaggio e raccordi vedere la sezione "Accessori e raccordi per collettori sanitari".
- For cabinets, fixing kits and fittings see the "Accessories and fittings for sanitary manifolds" section.
- Pour les cassettes, les kits de fixation et les raccords, voir la section «Accessoires et raccords pour collecteurs sanitaires».
- Für Kästen, Befestigungssätzen und Verbinder beachten Sie Abschnitt „Zubehör und Verbinder für Sanitärverteiler“.
- Para cajas, kits de fijación y racores, consulte la sección "Accesorios y racores para colectores sanitarios".

# ACCESSORIES FOR SANITARY MANIFOLDS

## AC 850



- Cassetta in plastica con fondo e kit di fissaggio per collettori coplanari e componibili.
- Plastic cabinet with bottom and fastening kit for coplanar and modular manifolds.
- Casette en plastique avec fond et kit de fixation pour collecteurs coplanaires et à éléments.
- Unterputz Verteilerschrank aus Kunststoff mit Boden und Fixierung-kit für komplanare und Einbau-Verteiler.
- Caja de plástico con fondo y kit de montaje para colectores coplanares y componibles.

Code	Height	Width	Depth	Price	Class	Packaging
SAM-032	260 mm	320 mm	95 mm	25,52 €	NW	20
SAM-040	260 mm	400 mm	95 mm	28,21 €	NW	20
SAM-050	260 mm	500 mm	95 mm	31,34 €	NW	10
SAM-060	260 mm	600 mm	95 mm	35,82 €	NW	10

## AC 851



- Kit di fissaggio per collettori coplanari e componibili in cassetta di plastica tipo AC 850.
- Kit for coplanar and modular manifolds fastening in plastic cabinet AC 850.
- Kit de fixation pour collecteurs coplanaires et à éléments dans la cassette en plastique AC 850.
- Fixierung-kit für komplanare und Einbau-Verteiler in Unterputz Verteilerschrank aus Kunststoff AC 850.
- Kit de montaje para colectores coplanares y componibles en caja de plástico tipo AC 850.

Code	Manifolds type	Price	Class	Packaging
SAM-001	EASY•RADIANT / EASY•LOCK / BASIC series	11,42 €	NW	1

## AC 852



- Cassetta in plastica con fondo per collettori componibili e coplanari (senza kit di fissaggio, da ordinare separatamente).
- Plastic cabinet with bottom for modular and coplanar manifolds (without fastening kit, to be ordered separately).
- Casette en plastique avec fond pour collecteurs à éléments et coplanaires (sans kit de fixation, à commander séparément).
- Unterputz Verteilerschrank aus Kunststoff mit Boden für Einbau- und koplanare Verteiler (ohne Fixierung-kit, bitte bestellen getrennt).
- Caja de plástico con fondo para colectores componibles y coplanares (sin kit de montaje, para pedir separatamente).

Code	Height	Width	Depth	Price	Class	Packaging
SAM-135	350 mm	350 mm	90 mm	33,18 €	NW	1
SAM-150	350 mm	500 mm	90 mm	42,02 €	NW	1
SAM-165	350 mm	650 mm	90 mm	55,54 €	NW	1
SAM-180	400 mm	800 mm	95 mm	75,68 €	NW	1

## AC 853



- Kit di fissaggio per collettori coplanari e componibili in cassetta di plastica tipo AC 852.
- Kit for coplanar and modular manifolds fastening in plastic cabinet AC 852.
- Kit de fixation pour collecteurs coplanaires et à éléments dans la cassette en plastique AC 852.
- Fixierung-kit für komplanare und Einbau-Verteiler in Unterputz Verteilerschrank aus Kunststoff AC 852.
- Kit de montaje para colectores coplanares y componibles en caja de plástico de tipo AC 852.

Code	Manifolds type	Price	Class	Packaging
SAM-010	EASY•RADIANT / EASY•LOCK / BASIC series	5,80 €	NW	1

**AC 628**


- Staffa doppia per collettori componibili serie EASY-LOCK / BASIC / EASY-RADIANT.
- Double bracket for modular manifolds EASY-LOCK / BASIC / EASY-RADIANT series.
- Étrier double pour collecteurs à éléments de la série EASY-LOCK / BASIC / EASY-RADIANT.
- Doppelt Wandalterung für Einbauverteiler der Serie EASY-LOCK / BASIC / EASY-RADIANT.
- Soporte doble para colectores componibles de la serie EASY-LOCK / BASIC / EASY-RADIANT.

Code	OC distance	Depth	Manifolds type	Price	Class	Packaging
501160	200 mm	95 mm	3/4" (EASY-LOCK / BASIC series)	5,56 €	NJ	2 / 40
501632	200 mm	80 mm	1" (EASY-LOCK / BASIC / EASY-RADIANT series)	5,95 €	NJ	1
501639	200 mm	95 mm	1" (EASY-LOCK / BASIC / EASY-RADIANT series)	5,56 €	NJ	2 / 70

**AC 639**


- Staffa singola per collettori componibili serie EASY-LOCK / BASIC.
- Single bracket for modular manifolds EASY-LOCK / BASIC series.
- Étrier simple pour collecteurs à éléments de la série EASY-LOCK / BASIC.
- Einzel Wandalterung für Einbauverteiler der Serie EASY-LOCK / BASIC.
- Soporte simple para colectores componibles de la serie EASY-LOCK / BASIC.

Code	Manifolds type	Price	Class	Packaging
502061	3/4" (EASY-LOCK / BASIC series)	2,94 €	NJ	2 / 150
501645	1" (EASY-LOCK / BASIC series)	2,94 €	NJ	2 / 150

**AC 649**


- Staffa singola per collettori componibili serie EASY-LOCK / BASIC.
- Single bracket for modular manifolds EASY-LOCK / BASIC series.
- Étrier simple pour collecteurs à éléments de la série EASY-LOCK / BASIC.
- Einzel Wandalterung für Einbauverteiler der Serie EASY-LOCK / BASIC.
- Soporte simple para colectores componibles de la serie EASY-LOCK / BASIC.

Code	Manifolds type	Price	Class	Packaging
501641	3/4" (EASY-LOCK / BASIC series)	3,32 €	NJ	2 / 70
501643	1" (EASY-LOCK / BASIC series)	3,32 €	NJ	2 / 70

**MCC 04 B**


- Manopola per collettori componibili EASY LOCK con valvole di intercettazione a manovra manuale.
- Hand wheel for modular manifolds EASY LOCK series with manually operated isolation valves.
- Poignée pour collecteurs à éléments série EASY LOCK avec des vannes d'interception à manoeuvre manuelle.
- Griff für Einbauverteiler Serie EASY LOCK mit Absperbareventile mit manueller Hebel.
- Mando para colectores componibles serie EASY LOCK con válvulas de cierre con cabeza manual.

Code	Manifolds type	Color	Price	Class	Packaging
507351B	CI 490 NB - CI 400 NB		1,31 €	NG	50 / 400

**MCC 04 R**

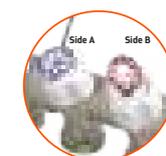

- Manopola per collettori componibili EASY LOCK con valvole di intercettazione a manovra manuale.
- Hand wheel for modular manifolds EASY LOCK series with manually operated isolation valves.
- Poignée pour collecteurs à éléments série EASY LOCK avec des vannes d'interception à manoeuvre manuelle.
- Griff für Einbauverteiler Serie EASY LOCK mit Absperbareventile mit manueller Hebel.
- Mando para colectores componibles serie EASY LOCK con válvulas de cierre con cabeza manual.

Code	Manifolds type	Color	Price	Class	Packaging
507351R	CI 490 NR - CI 400 NR		1,31 €	NG	50 / 400

**MCC 04 W**


- Manopola per collettori componibili EASY LOCK con valvole di intercettazione a manovra manuale.
- Hand wheel for modular manifolds EASY LOCK series with manually operated isolation valves.
- Poignée pour collecteurs à éléments série EASY LOCK avec des vannes d'interception à manoeuvre manuelle.
- Griff für Einbauverteiler Serie EASY LOCK mit Absperbareventile mit manueller Hebel.
- Mando para colectores componibles serie EASY LOCK con válvulas de cierre con cabeza manual.

Code	Manifolds type	Color	Price	Class	Packaging
507351W	CI 400 N - CI 490 NW		1,31 €	NG	50 / 400

**MCC 05**


- Manopola reversibile per collettori componibili serie EASY LOCK / BASIC con valvole di intercettazione a manovra manuale.
- Reversible hand wheel for modular manifolds EASY LOCK / BASIC series with manually operated isolation valves.
- Poignée réversible pour collecteurs à éléments série EASY LOCK / BASIC avec des vannes d'interception à manoeuvre manuelle.
- Reversibelgriff für Einbauverteiler Serie EASY LOCK / BASIC mit Absperbareventile mit manueller Hebel.
- Mando reversible para colectores componibles serie EASY LOCK / BASIC con válvulas de cierre con cabeza manual.

Code	Manifolds type	Color	Price	Class	Packaging
507139	CI 490 N - CI 390 N CI 400 NBR - CI 350 N CI 370 N	or  (reversible)	3,39 €	NG	50 / 400

AC 601



- Tappo femmina.
- Female plug.
- Bouchon femelle.
- IG Verschluss.
- Tapón hembra.

Code	Size	Accessories	Color	Price	Class	Packaging
550016	1/2"	1 gasket	■	1,67 €	NJ	50 / 400
500022	3/4"	2 gaskets	■	1,85 €	NJ	100 / 400
500625	1"	1 gasket	■	3,20 €	NJ	35 / 280
550016N	1/2"	1 gasket	■	1,67 €	NJ	50 / 400
550090	3/4"	2 gaskets	■	1,92 €	NJ	100 / 400
500625N	1"	1 gasket	■	3,31 €	NJ	35 / 280
550089	M24x1,5	1 gasket	■	1,92 €	NJ	100 / 800

AC 601 K



- Kit tappo femmina con adattatore per tenuta piatta.
- Female plug kit with adaptor for flat seal.
- Kit bouchon femelle avec adaptateur pour tenue plate.
- Verschluss Set mit Innengewinde und Flachdichtung Adapter.
- Kit tapón hembra con adaptador para junta plana.

Code	Size	Accessories	Color	Price	Class	Packaging
506206	EUROK	2 gaskets	■	3,05 €	NJ	50 / 400
506206N	EUROK	2 gaskets	■	3,15 €	NJ	50 / 400

TA 4420



- Raccordo EUROK per tubo multistrato e in polietilene.
- EUROK fitting for multilayer and polyethylene pipe.
- Raccord EUROK pour tube multicouches et en polyéthylène.
- EUROK-Verschraubung für Verbund- und für Polyäthylen-Rohr.
- Conexión EUROK para tubo multicapa y de polietileno.

20 Nm ≤ T ≤ 30 Nm



**FOCUS: Fittings for multilayer and PEX pipe**

See page 151.

Code	Size	Color	Price	Class	Packaging
506061	EUROK x 12/1,8	■	2,98 €	JA	40 / 320
500683	EUROK x 14/2	■	2,98 €	JA	40 / 320
500400	EUROK x 15/1,5	■	3,02 €	JA	40 / 320
500684	EUROK x 16/2	■	2,98 €	JA	40 / 320
500579	EUROK x 16/2,25	■	2,98 €	JA	40 / 320
506040	EUROK x 16,2/2,6	■	2,98 €	JA	40 / 320
500012	EUROK x 17/2	■	3,19 €	JA	40 / 320
500685	EUROK x 18/2	■	3,19 €	JA	40 / 320
500754	EUROK x 18/2,5	■	3,19 €	JA	40 / 320
500914	EUROK x 20/2	■	3,33 €	JA	40 / 320
500009	EUROK x 20/2,25	■	3,50 €	JA	40 / 320
501010	EUROK x 20/2,5	■	3,33 €	JA	40 / 320
506295	EUROK x 20/2,9	■	4,55 €	JA	40 / 320

- T = Coppia max. di serraggio.
- T = Max. tightening torque.
- T = Couple de serrage max.
- T = Max. Anzugsdrehmoment.
- T = Par de apriete max.

**TP 4410**


30 Nm ≤ T ≤ 40 Nm



- **Raccordo EUROK per tubo in polietilene.**
- *EUROK fitting for polyethylene pipe.*
- **Raccord EUROK pour tube en polyéthylène.**
- *EUROK-Verschraubung für Polyäthylen-Rohr.*
- **Conexión EUROK para tubo de polietileno.**

Code	Size	Color	Price	Class	Packaging
500590	EUROK x 12/1	■	2,79 €	JA	40 / 320
520041	EUROK x 12/2	■	2,75 €	JA	40 / 320
500679	EUROK x 14/2	■	2,75 €	JA	40 / 320
500148	EUROK x 15/1,7	■	2,98 €	JA	40 / 320
500769	EUROK x 15/2,5	■	2,86 €	JA	40 / 320
500591	EUROK x 16/1,5	■	2,69 €	JA	40 / 320
500680	EUROK x 16/2	■	2,69 €	JA	40 / 320
500681	EUROK x 16/2,2	■	2,69 €	JA	40 / 320
500682	EUROK x 17/2	■	2,86 €	JA	40 / 320
500145	EUROK x 18/1,8	■	2,86 €	JA	40 / 320
500650	EUROK x 18/2	■	3,19 €	JA	40 / 320
506020	EUROK x 18/2,5	■	2,86 €	JA	40 / 320
500651	EUROK x 20/2	■	3,19 €	JA	40 / 320
500649	EUROK x 20/2,8	■	3,08 €	JA	40 / 320
506200	EUROK x 20/3,4	■	3,08 €	JA	40 / 320
500753	EUROK x 21/2,5	■	3,47 €	JA	40 / 320

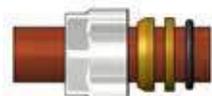
**TR 4430**

 45 Nm ≤ T ≤ 55 Nm\*  
 60 Nm ≤ T ≤ 80 Nm\*\*  
 60 Nm ≤ T ≤ 70 Nm\*\*\*


- **Raccordo EUROK per tubo rame ed acciaio dolce.**
- *EUROK fitting for copper and mild steel pipe.*
- **Raccord EUROK pour tube en cuivre et en acier doux.**
- *EUROK-Verschraubung für Kupferrohre und Weichstahlrohre.*
- **Conexión EUROK para tubo de cobre y acero dulce.**

Code	Size	Color	Price	Class	Packaging
500998	EUROK x 10/1	■	2,51 €	JA	40 / 320
500157	EUROK x 12/1	■	2,05 €	JA	40 / 320
500024	EUROK x 14/1	■	2,05 €	JA	40 / 320
500025	EUROK x 15/1	■	2,05 €	JA	40 / 320
500026	EUROK x 16/1	■	2,05 €	JA	40 / 320

**TR 4430-18**

 45 Nm ≤ T ≤ 55 Nm\*  
 60 Nm ≤ T ≤ 80 Nm\*\*  
 60 Nm ≤ T ≤ 70 Nm\*\*\*


- **Raccordo EUROK per tubo rame ed acciaio dolce.**
- *EUROK fitting for copper and mild steel pipe.*
- **Raccord EUROK pour tube en cuivre et en acier doux.**
- *EUROK-Verschraubung für Kupferrohre und Weichstahlrohre.*
- **Conexión EUROK para tubo de cobre y acero dulce.**

Code	Size	Color	Price	Class	Packaging
500417	EUROK x 18/1	■	3,29 €	JA	40 / 320

- T = Coppia max. di serraggio. | \*Rame ricotto. | \*\*Rame semiduro. | \*\*\*Acciaio dolce.
- T = Max. tightening torque. | \*Soft copper. | \*\*Semi-hard copper. | \*\*\*Mild steel.
- T = Couple de serrage max. | \*Cuivre recuit. | \*\*Cuivre semi-rigide. | \*\*\*Acier doux.
- T = Max. Anzugsdrehmoment. | \*Geglühtes Kupfer. | \*\*Mittelfestes Kupfer. | \*\*\*Weichstahl.
- T = Par de apriete max. | \*Cobre recocido. | \*\*Cobre semiduro. | \*\*\*Acero dulce.

TA 420 P



- Raccordo 1/2" F per tubo multistrato e in polietilene.
- 1/2" F fitting for multilayer and polyethylene pipe.
- Raccord 1/2" F pour tube multicouches et en polyéthylène.
- Verschraubung 1/2" IG für Verbund- und für Polyäthylen-Rohr.
- Conexión 1/2" F para tubo multicapa y de polietileno.

20 Nm ≤ T ≤ 30 Nm



Code	Size	Color	Price	Class	Packaging
506265	1/2" F x 14/2	■	2,40 €	JA	50 / 400
500759	1/2" F x 16/2	■	2,40 €	JA	40 / 320
506267	1/2" F x 16/2,25	■	2,40 €	JA	50 / 400

TP 410 P



- Raccordo 1/2" F per tubo in polietilene.
- 1/2" F fitting for polyethylene pipe.
- Raccord 1/2" F pour tube en polyéthylène.
- Verschraubung 1/2" IG für Polyäthylen-Rohr.
- Conexión 1/2" F para tubo de polietileno.

30 Nm ≤ T ≤ 40 Nm



Code	Size	Color	Price	Class	Packaging
506268	1/2" F x 12/1,1	■	2,40 €	JA	50 / 400
506269	1/2" F x 12/2	■	2,40 €	JA	50 / 400
506272	1/2" F x 15/2,5	■	2,40 €	JA	50 / 400
506273	1/2" F x 16/1,5	■	2,40 €	JA	50 / 400
506275	1/2" F x 16/2,2	■	2,40 €	JA	50 / 400

TR 430 P



- Raccordo 1/2" F per tubo rame ed acciaio dolce con bussola in NBR.
- 1/2" F fitting for copper and mild steel pipe with NBR bushing.
- Raccord 1/2" F pour tube en cuivre et en acier doux avec douille en NBR.
- Verschraubung 1/2" IG für Kupferrohre und Weichstahlrohre mit Hülsen aus NBR.
- Conexión 1/2" F para tubo de cobre y acero dulce con buje en NBR.

45 Nm ≤ T ≤ 55 Nm\*  
60 Nm ≤ T ≤ 80 Nm\*\*  
60 Nm ≤ T ≤ 70 Nm\*\*\*



Code	Size	Color	Price	Class	Packaging
506260	1/2" F x 10/1	■	2,04 €	JA	50 / 400
506261	1/2" F x 12/1	■	2,04 €	JA	50 / 400
506262	1/2" F x 14/1	■	2,04 €	JA	50 / 400
506263	1/2" F x 15/1	■	2,25 €	JA	50 / 400
506264	1/2" F x 16/1	■	2,25 €	JA	50 / 400

- T = Coppia max. di serraggio. [\*Rame ricotto.]\*\*Rame semiduro. [\*\*\*Acciaio dolce.
- T = Max. tightening torque. [\*Soft copper.]\*\*Semi-hard copper. [\*\*\*Mild steel.
- T = Couple de serrage max. [\*Cuivre recuit.]\*Cuivre semi-rigide. [\*\*\*Acier doux.
- T = Max. Anzugsdrehmoment. [\*Geglühtes Kupfer.]\*Mittelfestes Kupfer, [\*\*\*Weichstahl.
- T = Par de apriete max. [\*Cobre recocido.]\*Cobre semiduro. [\*\*\*Acero dulce.

**TA 420**


- **Raccordo M24 per tubo multistrato e in polietilene.**
- *M24 fitting for multilayer and polyethylene pipe.*
- **Raccord M24 pour tube multicouches et en polyéthylène.**
- *M24-Verschraubung für Verbund- und für Polyäthylen-Rohr.*
- **Conexión M24 para tubo multicapa y de polietileno.**

20 Nm ≤ T ≤ 30 Nm



Code	Size	Color	Price	Class	Packaging
501040	M24x1,5 x 14/2		2,40 €	JA	50 / 400
501028	M24x1,5 x 16/2		2,40 €	JA	50 / 400
501025	M24x1,5 x 16/2,2		2,40 €	JA	50 / 400
500049	M24x1,5 x 17/2,3		2,54 €	JA	50 / 400
501027	M24x1,5 x 18/2		2,54 €	JA	50 / 400
506215	M24x1,5 x 20/2		3,78 €	JA	40 / 320

**TP 410**


- **Raccordo M24 per tubo in polietilene.**
- *M24 fitting for polyethylene pipe.*
- **Raccord M24 pour tube en polyéthylène.**
- *M24-Verschraubung für Polyäthylen-Rohr.*
- **Conexión M24 para tubo de polietileno.**

30 Nm ≤ T ≤ 40 Nm



Code	Size	Color	Price	Class	Packaging
501056	M24x1,5 x 12/1		2,46 €	JA	50 / 400
501032	M24x1,5 x 14/2		2,36 €	JA	50 / 400
501022	M24x1,5 x 16/1,5		2,28 €	JA	50 / 400
501034	M24x1,5 x 16/2		2,23 €	JA	50 / 400
501035	M24x1,5 x 16/2,2		2,23 €	JA	50 / 400
501048	M24x1,5 x 17/2		2,23 €	JA	50 / 400
501037	M24x1,5 x 18/2		2,54 €	JA	50 / 400

**TR 430**


- **Raccordo M24 per tubo rame ed acciaio dolce.**
- *M24 fitting for copper and mild steel pipe.*
- **Raccord M24 pour tube en cuivre et en acier doux.**
- *M24-Verschraubung für Kupferrohre und Weichstahlrohre.*
- **Conexión M24 para tubo de cobre y acero dulce.**

 45 Nm ≤ T ≤ 55 Nm\*  
 60 Nm ≤ T ≤ 80 Nm\*\*  
 60 Nm ≤ T ≤ 70 Nm\*\*\*

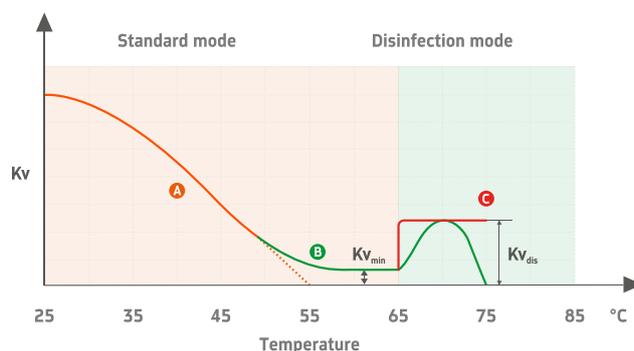
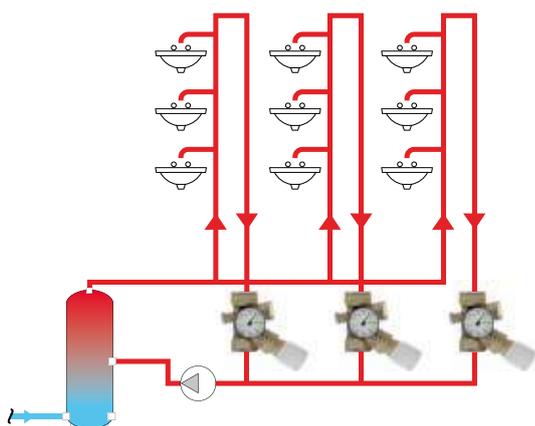

Code	Size	Color	Price	Class	Packaging
500938	M24x1,5 x 10/1		2,30 €	JA	50 / 400
500141	M24x1,5 x 12/1		1,99 €	JA	50 / 400
500014	M24x1,5 x 14/1		1,90 €	JA	50 / 400
500007	M24x1,5 x 15/1		1,90 €	JA	50 / 400
500016	M24x1,5 x 16/1		1,90 €	JA	50 / 400

- T = Coppia max. di serraggio. [\*Rame ricotto.]\*\*Rame semiduro. [\*\*\*Acciaio dolce.
- T = Max. tightening torque. [\*Soft copper.]\*\*Semi-hard copper. [\*\*\*Mild steel.
- T = Couple de serrage max. [\*Cuivre recuit.]\*\*Cuivre semi-rigide. [\*\*\*Acier doux.
- T = Max. Anzugsdrehmoment. [\*Geglühtes Kupfer.]\*\*Mittelfestes Kupfer. [\*\*\*Weichstahl.
- T = Par de apriete max. [\*Cobre recocido.]\*\*Cobre semiduro. [\*\*\*Acero dulce.

RTV is an automatic proportional valve with thermostatic insert which controls the return temperature in the circulation circuits, using an injection system to limit flow rates along the pipelines and therefore also heat dispersion. In this way the maximum comfort is ensured for system users, who will always have hot water at the right temperature. The thermostat controller, installed on all circuit branches, automatically keeps the system temperature constant and ensures balancing when required.

## ⊕ PLUS

- **Wide temperature regulation range 35 °C – 60 °C**
- **Reduction of heat dispersion thanks to limitation of maximum flow rate in circuit branches.**
- **Available in sizes DN 15-20 with 1/2" F - 3/4" F connections in the 3 variants A - B - C**
- **An anti-legionella cycle with mechanical or electronically controlled bypass can also be included**



Segment A on the graph indicates the decrease of the Kv (therefore the flow rate) as the temperature of the recirculating water increases.

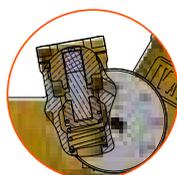
Segment B (up to 65°C) shows the minimum recirculation flow rate, which is always present.

Finally, between 65 - 75°C there is the disinfection zone (anti-legionella treatment) with mechanical (green line) or automatic (red line) activation.



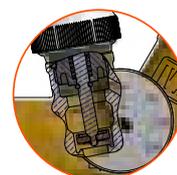
**A**

Temperature control only



**B**

Temperature control and  
mechanical bypass for  
heat disinfection



**C**

Temperature control and  
electronic bypass management  
for heat disinfection

**RTV A**


- Valvola termostatica per il controllo della temperatura dei rami di ricircolo sanitario.
- Thermostatic valve for temperature control of sanitary recirculation circuits.
- Robinet thermostatique pour le contrôle de la température des circuits de recirculation sanitaire.
- Thermostatventil für die Temperaturregelung der Brauchwasserrückführungskreisläufe.
- Válvula termostática para el control de la temperatura de los circuitos de recirculación de agua doméstica.

Code	Size	Range	Price	Class	Packaging
506187	1/2" F	35 – 60 °C	101,89 €	OE	1 / 22
507036	3/4" F	35 – 60 °C	101,89 €	OE	1 / 22

**RTV B**


- Valvola termostatica per il controllo della temperatura dei rami di ricircolo sanitario con bypass meccanico per la disinfezione termica degli impianti idrosanitari.
- Thermostatic valve for temperature control of sanitary recirculation circuits with mechanical bypass for thermal disinfection of sanitary systems.
- Robinet thermostatique pour le contrôle de la température des circuits de recirculation sanitaire avec bypass mécanique pour la désinfection thermique des systèmes sanitaires.
- Thermostatventil für die Temperaturregelung der Brauchwasserrückführungskreisläufe mit mechanischem Bypass zur thermischen Desinfektion von Sanitäranlagen.
- Válvula termostática para el control de la temperatura de los circuitos de recirculación de agua doméstica con bypass mecánico para la desinfección térmica de sistemas sanitarios.

Code	Size	Range	Price	Class	Packaging
506188	1/2" F	35 – 60 °C	124,88 €	OE	1 / 22
507037	3/4" F	35 – 60 °C	124,88 €	OE	1 / 22

**RTV C**


- Valvola termostatica per il controllo della temperatura dei rami di ricircolo sanitario con bypass a controllo elettronico per la disinfezione termica degli impianti idrosanitari (testa elettrotermica non inclusa).
- Thermostatic valve for temperature control of sanitary recirculation circuits with electronically controlled bypass for thermal disinfection of sanitary systems (electrothermal head not included).
- Robinet thermostatique pour le contrôle de la température des circuits de recirculation sanitaire avec bypass à commande électronique pour la désinfection thermique des systèmes sanitaires (tête électrothermique non incluse).
- Thermostatventil für die Temperaturregelung der Brauchwasserrückführungskreisläufe mit elektronischem gesteuertem Bypass zur thermischen Desinfektion von Sanitäranlagen (Elektrothermischer Stellantrieb nicht enthalten).
- Válvula termostática para el control de la temperatura de los circuitos de recirculación de agua doméstica con bypass controlado electrónicamente para la desinfección térmica de sistemas sanitarios (cabeza electrotérmica no incluida).

Code	Size	Range	Price	Class	Packaging
506189	1/2" F	35 – 60 °C	124,88 €	OE	1 / 22
507038	3/4" F	35 – 60 °C	124,88 €	OE	1 / 22



• >>p. 257,421,460,551,563

**CRTV 0**


- Modulo base di gestione dei cicli antilegionella con schermo integrato, kit morsetti e sonda di temperatura. Compatibile con RTV C.
- Basic module for antilegionella cycles management with built-in screen, clamp kit and temperature probe. Suitable for RTV C.
- Module de base pour la gestion des cycles anti-Légionelle avec écran intégré, kit de bornes et sonde de température. Adaptée pour RTV C.
- Grundmodul für die Verwaltung der Antilegionellen-Zyklen mit integriertem Schirm, Klemmensatz und Temperatursfühler. Geeignet für RTV C.
- Módulo base para la gestión de los ciclos antilegionella con pantalla incorporada, kit de bornes y sonda de temperatura. Adecuada para RTV C.

Code	Size	Module	Price	Class	Packaging
CRTV00	12-24 V AC	≤ 3 RTV C	783,75 €	VA	1
CRTV01	12-24 V AC	≤ 9 RTV C	1.149,50 €	VA	1

# LEGIO-BOX

LEGIO-BOX is a device designed to provide comfort and safety for domestic water distribution.

During supply to the terminals, LEGIO-BOX controls the distribution of cold and hot water (Fig. B), whose temperature it regulates through the thermostatic mixer MT 05. This is an anti-scald thermostatic mixer, with adjustable temperature between 36°C and 50°C, which guarantees a very high level of operating performance. If the temperature or water pressure changes suddenly, the MT 05 reacts immediately, ensuring people's safety by preventing them from being scalded.

During the programmed thermal disinfection, the thermostatic mixer is bypassed by an electronic control sent to the thermoelectric head (Fig. A). This way, by opening the taps of the different end components, the water will arrive at high temperature to carry out the thermal disinfection of the system.

## Materials

Brass parts: CW617N

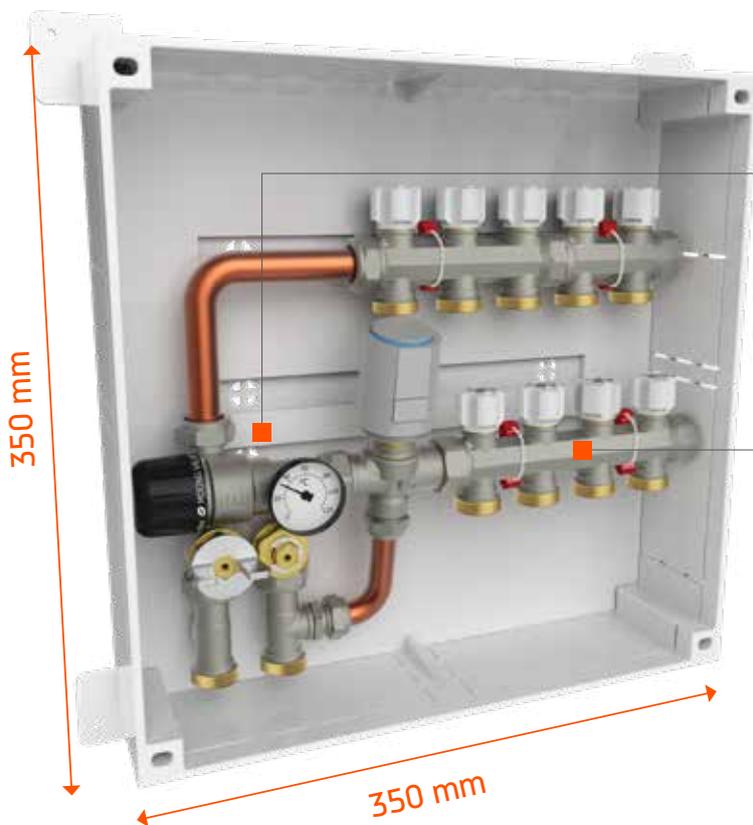
Sealing elements: peroxide EPDM

## Technical specifications

Max. fluid temperature inside manifold: 90 °C

Maximum operating pressure: 10 bar

Max pressure differential at the ends of the zone valve: 1 bar



**DOMESTIC WATER DISTRIBUTION, ANTI-SCALD THERMOSTATIC CONTROL AND THERMAL DISINFECTION** in one compact and versatile product.

Available both in the complete version with domestic water manifolds and the box, or with just the device and the box.

Upon request, the anti-legionella cycle management control electronics are available.

Fig. A

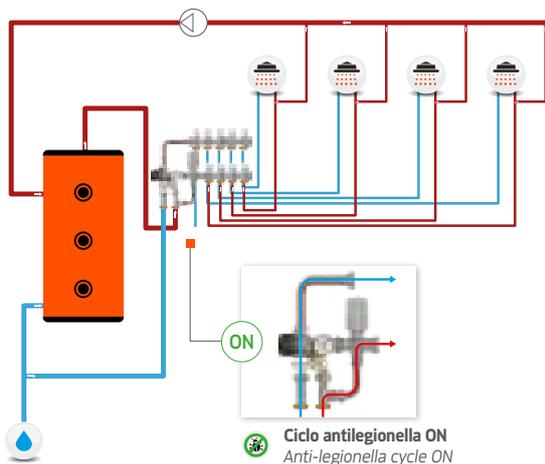
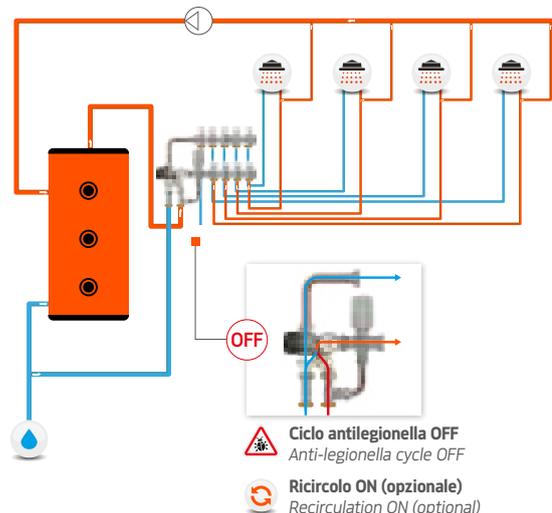


Fig. B



**LEGIO-BOX 1**


- **Sistema multifunzione con/senza testa elettrotermica per il controllo della temperatura e disinfezione termica per impianti sanitari, completo di collettori, cassetta e kit di fissaggio.**
- *Multifunction temperature control and thermal disinfection system with/without electrothermal head for sanitary systems, complete with manifolds, box and fastening kit.*
- **Système multifonctions avec/sans tête électrothermique pour le contrôle de la température et la désinfection thermique des systèmes sanitaires, complet avec collecteurs, cassette et kit de fixation.**
- *Multifunktionssystem mit/ohne Elektrothermischer Stellantriebe zur Temperaturkontrolle und thermischen Desinfektion der Leitungen, komplett mit Verteiler, Schrank und Fixierung-kit.*
- **Sistema multifunción con/sin cabeza electrotérmica para el control de la temperatura y desinfección térmica para instalaciones sanitarias, completo con colectores, caja y kit de fijación.**

Code	Cabinet	Hot / Cold ways	Head	Price	Class	Packaging
507039	✓	2 HOT / 3 COLD	✓	404,53 €	OE	1
507040	✓	2 HOT / 3 COLD	-	373,90 €	OE	1
507041	✓	3 HOT / 4 COLD	✓	415,32 €	OE	1
507042	✓	3 HOT / 4 COLD	-	384,69 €	OE	1
507043	✓	4 HOT / 5 COLD	✓	431,05 €	OE	1
507044	✓	4 HOT / 5 COLD	-	400,42 €	OE	1

**LEGIO-BOX 2**


- **Sistema multifunzione con/senza testa elettrotermica per il controllo della temperatura e disinfezione termica per impianti idrosanitari, completo di cassetta e kit di fissaggio per collettori.**
- *Multifunction temperature control and thermal disinfection system with/without electrothermal head for sanitary systems, complete with box and fastening kit for manifolds.*
- **Système multifonctions avec/sans tête électrothermique pour le contrôle de la température et la désinfection thermique des systèmes sanitaires, complet avec cassette et kit de fixation pour collecteurs.**
- *Multifunktionssystem mit/ohne Elektrothermischer Stellantriebe zur Temperaturkontrolle und thermischen Desinfektion der Leitungen, komplett mit Schrank und Fixierung-kit für Verteiler.*
- **Sistema multifunción con/sin cabeza electrotérmica para el control de la temperatura y desinfección térmica para instalaciones sanitarias, completo con caja y kit de montaje para los colectores.**

Code	Cabinet	Head	Price	Class	Packaging
507045	✓	✓	367,66 €	OE	1
507046	✓	-	337,03 €	OE	1

**LEGIO-BOX 3**


- **Sistema multifunzione con/senza testa elettrotermica per il controllo della temperatura e disinfezione termica per impianti sanitari.**
- *Multifunction temperature control and thermal disinfection system with/without electrothermal head for sanitary systems.*
- **Système multifonctions avec/sans tête électrothermique pour le contrôle de la température et la désinfection thermique des systèmes sanitaires.**
- *Multifunktionssystem mit/ohne Elektrothermischer Stellantriebe zur Temperaturkontrolle und thermischen Desinfektion der Leitungen.*
- **Sistema multifunción con / sin cabeza electrotérmica para el control de la temperatura y desinfección térmica para instalaciones sanitarias.**

Code	Head	Price	Class	Packaging
507047	✓	323,97 €	OE	1
507048	-	303,05 €	OE	1

**IKLE01**


- **Modulo base di gestione dei cicli antilegionella con schermo integrato, kit morsetti e sonda di temperatura.**
- *Basic module for antilegionella cycles management with built-in screen, clamp kit and temperature probe.*
- **Module de base pour la gestion des cycles anti-Légionelle avec écran intégré, kit de bornes et sonde de température.**
- *Grundmodul für die Verwaltung der Antilegionellen-Zyklen mit integriertem Schirm, Klemmensatz und Temperaturfühler.*
- **Módulo base para la gestión de los ciclos antilegionella con pantalla incorporada, kit de bornes y sonda de temperatura.**

Code	Size	Price	Class	Packaging
IKLE01	12-24 V AC	812,00 €	OE	1

**IKGE01**


- **Sonda opzionale.**
- *Optional probe.*
- **Sonde optionnelle.**
- *Optionale Fühler.*
- **Sonda opcional.**

Code	Range	Length	Price	Class	Packaging
IKGE01	-40 / 110 °C	1.50 m	On request	OE	1

# THERMOSTATIC BLENDERS

Thermostatic mixers are used mainly in domestic water systems to mix hot and cold water and keep the outlet water at a constant temperature. For this reason, the device is used for several applications:

- ① as a delivery point mixer to cool the domestic hot water temperature
- ② as a temperature limiter downstream from electric storage water heaters
- ③ as a mixer for tanks where the hot water storage temperature may vary over time

The thermostatic mixer can also be considered a safety device because of its anti-scald function. In fact, if there is no cold water in the inlet, the device reacts by closing the hot water inlet instantly and avoiding scalding hazards for users. This feature makes the device particularly suitable in facilities such as hospitals, kindergartens or schools where the people, such as children and the elderly, are most at risk and where there are accumulations of domestic hot water subject to cycles of thermal disinfection (over 65° C) against the hazards of legionella.



## CERTIFICATION

IVAR is one of three companies in the world that has received the prestigious French NF mark of approval (NF 079 doc. 08) from the CSTB thermostatic mixer certification laboratory for its MT 00 and MT 05 mixers. For example, this standard provides for an anti-scald device at the maximum adjusted temperature.

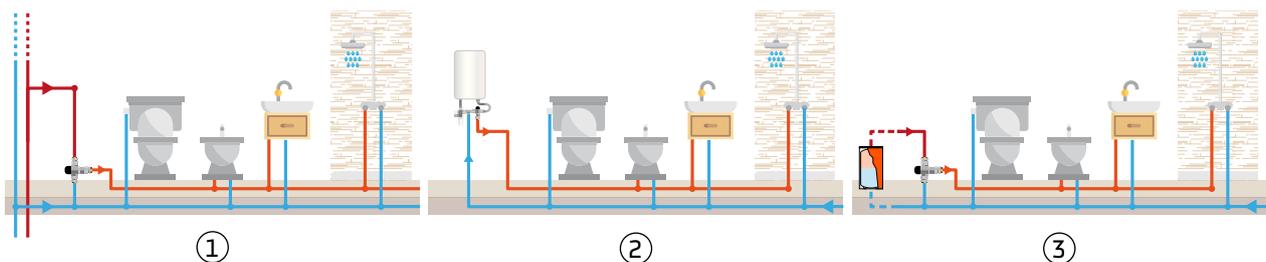


## Materials

Body: brass CW617N  
Parts in rubber: EPDM  
Spring: stainless steel  
Shutter: Ultem + silicon  
Control cap or knob: ABS

## Technical specifications

Max. static operating pressure: 10 bar  
Max. temperature on inlets: 90 °C (NF, HT); 110 °C (SOL)  
Min temperature difference between hot inlet and cold inlet to ensure anti-scalding function (NF, SOL): 15 °C



## PLUS

- **Maximum comfort thanks to constant temperature**
- **Including inlet check valves**
- **Anti-scald safety device:** if there is no cold water the valve closes automatically avoiding the scalding of users
- **Recommended where there are DHW storage tanks where the accumulated water may undergo thermal shocks from an anti-legionella cycle**



**MT**

NF certified anti-scald line  
(black cap/knob)

50 °C / 36-50 °C - Max 90 °C

- Delivery temperature control
- Fixed or adjustable calibration



**MT SOL**

Solar anti-scald line  
(orange cap/knob)

50 °C / 36-50 °C - Max 120 °C

- For solar applications
- Delivery temperature control
- Fixed or adjustable calibration

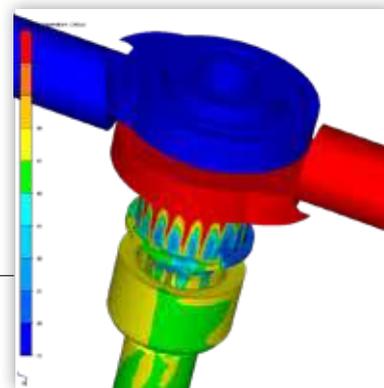


**MT HT**

High temperature line  
(green cap/knob)

63 °C / 50-63 °C - Max 90 °C

- High temperature
- Delivery temperature control
- Fixed or adjustable calibration



Wax expansion thermostat that expands and contracts according to the perceived temperature

The device is able to react to changes in the flow rate, inlet temperature (hot and/or cold water), inlet pressure and keep the temperature of the water delivered to users constant.

### ■ MT 00



- Miscelatore termostatico a taratura fissa completo di bocchettoni con valvola di non ritorno agli ingressi (temperatura max. ingresso: 90 °C).
- Thermostatic blender with fixed setting complete with fittings with non-return valve at the inlets (max. intake temperature: 90 °C).
- Limiteur de température à étalonnage fixe complet avec raccords avec clapet anti-retour aux entrées (température d'entrée max. : 90 °C).
- Thermostat-Mischer mit fester Eichung komplett mit Anschlüssen mit Rückschlagventil an den Eingängen (max. Einlauftemperatur: 90 °C).
- Mezclador termostático a valor fijo completo con manguitos con válvula de retención en las entradas (temperatura máx. de entrada: 90 °C).

Code	Size	Range	Color	Price	Class	Packaging
507020	1/2" M	50 (+0/-3) °C	■	67,28 €	QA	1 / 22
507030	3/4" M	50 (+0/-3) °C	■	76,96 €	QA	1 / 22

### ■ MT 05



- Miscelatore termostatico regolabile completo di bocchettoni con valvola di non ritorno agli ingressi (temperatura max. ingresso: 90 °C).
- Adjustable thermostatic blender complete with fittings with non-return valve at the inlets (max. intake temperature: 90 °C).
- Limiteur de température réglable complet avec raccords avec clapet anti-retour aux entrées (température d'entrée max. : 90 °C).
- Einstellbarer Thermostat-Mischer komplett mit Anschlüssen mit Rückschlagventil an den Eingängen (max. Einlauftemperatur: 90 °C).
- Mezclador termostático ajustable completo con manguitos con válvula de retención en las entradas (temperatura máx. de entrada: 90 °C).

Code	Size	Range	Color	Price	Class	Packaging
507025	1/2" M	36-50 °C	■	67,28 €	QA	1 / 22
507035	3/4" M	36-50 °C	■	76,96 €	QA	1 / 22

### ■ MT 00 SOL



- Miscelatore termostatico a taratura fissa per applicazioni solari completo di bocchettoni con valvola di non ritorno agli ingressi (temperatura max. ingresso: 110 °C).
- Thermostatic blender with fixed setting for solar applications complete with fittings with non-return valve at the inlets (max. intake temperature: 110 °C).
- Limiteur de température à étalonnage fixe pour des applications solaires complet avec raccords avec clapet anti-retour aux entrées (température d'entrée max. : 110 °C).
- Thermostat-Mischer mit fester Eichung für Solaranwendungen komplett mit Anschlüssen mit Rückschlagventil an den Eingängen (max. Einlauftemperatur: 110 °C).
- Mezclador termostático a valor fijo para aplicaciones solares completo con manguitos con válvula de retención en las entradas (temperatura máx. de entrada: 110 °C).

Code	Size	Range	Color	Price	Class	Packaging
507020SOL	1/2" M	50 (+0/-3) °C	■	81,05 €	QA	1 / 22
507030SOL	3/4" M	50 (+0/-3) °C	■	88,48 €	QA	1 / 22

### ■ MT 05 SOL



- Miscelatore termostatico regolabile per applicazioni solari completo di bocchettoni con valvola di non ritorno agli ingressi (temperatura max. ingresso: 110 °C).
- Adjustable thermostatic blender for solar applications complete with fittings with non-return valve at the inlets (max. intake temperature: 110 °C).
- Limiteur de température réglable pour des applications solaires complet avec raccords avec clapet anti-retour aux entrées (température d'entrée max. : 110 °C).
- Einstellbarer Thermostat-Mischer für Solaranwendungen komplett mit Anschlüssen mit Rückschlagventil an den Eingängen (max. Einlauftemperatur: 110 °C).
- Mezclador termostático ajustable para aplicaciones solares completo con manguitos con válvula de retención en las entradas (temperatura máx. de entrada: 110 °C).

Code	Size	Range	Color	Price	Class	Packaging
507025SOL	1/2" M	36-50 °C	■	81,05 €	QA	1 / 22
507035SOL	3/4" M	36-50 °C	■	88,48 €	QA	1 / 22

**MT 00 HT**


- Miscelatore termostatico a taratura fissa ad alta temperatura completo di bocchettoni con valvola di non ritorno agli ingressi (temperatura max. ingresso: 90 °C).
- High temperature thermostatic blender with fixed setting complete with fittings with non-return valve at the inlets (max. intake temperature: 90 °C).
- Limiteur de température à haute température à étalonnage fixe complet avec raccords avec clapet anti-retour aux entrées (température d'entrée max. : 90 °C).
- Thermostat-Mischer Hochtemperatur mit fester Eichung komplett mit Anschlüssen mit Rückschlagventil an den Eingängen (max. Einlauftemperatur: 90 °C).
- Mezclador termostático a valor fijo a alta temperatura completo con manguitos con válvula de retención en las entradas (temperatura máx. de entrada: 90 °C).

Code	Size	Range	Color	Price	Class	Packaging
507070	1/2" M	63 (+0/-3) °C	■	69,96 €	QA	1 / 28
507080	3/4" M	63 (+0/-3) °C	■	79,65 €	QA	1 / 28

**MT 05 HT**


- Miscelatore termostatico regolabile ad alta temperatura completo di bocchettoni con valvola di non ritorno agli ingressi (temperatura max. ingresso: 90 °C).
- Adjustable high temperature thermostatic blender complete with fittings with non-return valve at the inlets (max. intake temperature: 90 °C).
- Limiteur de température réglable à haute température complet avec raccords avec clapet anti-retour aux entrées (température d'entrée max. : 90 °C).
- Einstellbarer Thermostat-Mischer Hochtemperatur komplett mit Anschlüssen mit Rückschlagventil an den Eingängen (max. Einlauftemperatur: 90 °C).
- Mezclador termostático ajustable a alta temperatura completo con manguitos con válvula de retención en las entradas (temperatura máx. de entrada: 90 °C).

Code	Size	Range	Color	Price	Class	Packaging
507075	1/2" M	50-63 °C	■	69,96 €	QA	1 / 22
507085	3/4" M	50-63 °C	■	79,65 €	QA	1 / 22

**AMT 01**


- Bocchettone a tenuta morbida con/senza valvola di non ritorno anti-inquinamento per miscelatore termostatico.
- Soft-seal pipe fitting with/without anti-pollution non return valve for thermostatic blender.
- Goulotte à étanchéité souple avec/sans clapet anti-retour antipollution pour limiteur de température.
- Stutzen mit weicher Dichtung mit/ohne nicht-verschmutzendes Rückschlagventil für Thermostat-Mischer.
- Manguito de unión con junta blanda con/sin válvula de no retorno anti-contaminación para mezclador termostático.

Code	Size	Non returne valve	Price	Class	Packaging
501669	1/2" M	-	3,96 €	QA	75 / 600
500499	1/2" M	✓	5,21 €	QA	75 / 600
501902	3/4" M	-	4,25 €	QA	75 / 600
501903	3/4" M	✓	5,61 €	QA	50 / 200



# SAFETY UNITS

The safety unit is used in domestic plumbing systems for the following purposes:

- it prevents water pressure from reaching excessive and hazardous levels inside a water heater storage tank; this is why it is equipped with a safety valve that releases any excessive pressure that goes over the valve's pressure settings;
- through a check valve, it prevents any water from returning to the cold supply network (anti-contamination);
- through a shut-off valve, it facilitates maintenance operations on the heaters without having to drain down the entire system;
- it allows the manual emptying of the water heater through the manual drain valve.

The IVAR safety units are available with 3 different types of seats for the safety valve seal:

- Brass: suitable for soft water (little limescale).
- Teflon: its anti-stick and lubricating properties make it suitable in the presence of hard water - rich in limescale.
- Stainless steel: suitable for slightly acidic water.

The choice of the model with integrated dielectric connection allows the plant to be protected from possible electrolysis, which causes corrosion and therefore rust.

A tundish, which is also certified and essential for code-compliant installation, is also available for the system, for the protection of both the end user and the installer.

## Materials

Body: brass CW617N (nickel-plated on exterior only)  
Sealing parts: EPDM

## Technical specifications

Max. fluid temperature inside component: 120 °C  
Safety valve calibration pressure: 7 bar  
Drainage flow rate at 8.4 bar:  
- water: > 650 l/h  
- steam: > 225 kg/h

## ⊕ PLUS

- **Anti-contamination function thanks to the built-in check valve**
- **Special versions for hard water with a PTFE seal or for acidic water with a stainless steel seal**
- **Safety function against overpressure (safety valve set at 7 bar)**
- **Manual draining and cut off available for maintenance operations**



## CERTIFICATION

The safety units have been manufactured in accordance with the EN 1487 standard. According to the Ministry of Trade and Industry Circular No.9571 of 26 March 2003, these are to be installed on storage water heater delivery systems.



Straight drain



Square drain



Adjustable drain



**GS 00 E**


- Gruppo di sicurezza con scarico diritto.
- Safety unit with straight drainage valve.
- Groupe de sécurité avec robinet de vidange droit.
- Sicherheitsaggregat mit Entladeventil Durchgangsform.
- Grupo de seguridad con descarga recta.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
507053	3/4" - BRASS	7 bar	■	31,10 €	TA	1 / 8
507054	3/4" - TEFLON	7 bar	■	34,00 €	TA	1 / 8
507055	3/4" - STAINLESS STEEL	7 bar	■	34,00 €	TA	1 / 8

**GS 10 E**


- Gruppo di sicurezza con scarico a squadra.
- Safety unit with angle drainage valve.
- Groupe de sécurité avec robinet de vidange équerre.
- Sicherheitsaggregat mit Entladeventil Eckform.
- Grupo de seguridad con descarga de escuadra.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
507056	3/4" - BRASS	7 bar	■	31,90 €	TA	1 / 8
507057	3/4" - TEFLON	7 bar	■	35,20 €	TA	1 / 8
507058	3/4" - STAINLESS STEEL	7 bar	■	35,00 €	TA	1 / 8

**GS 101**


- Gruppo di sicurezza diritto con manopola.
- Straight safety unit with knob.
- Groupe de sécurité droit avec poignée.
- Durchgangs-Sicherheitsaggregat mit Griff.
- Grupo de seguridad recto con mando.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
508050	1/2"	7 bar	■	34,15 €	TA	1 / 24





### GS 20 E



- Gruppo di sicurezza con scarico orientabile.
- Safety unit with swiveling drainage valve.
- Groupe de sécurité avec robinet de vidange orientable.
- Sicherheitsaggregat mit drehbarer Entladeventil.
- Grupo de seguridad con descarga orientable.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
507063	3/4" - BRASS	7 bar	■	35,00 €	TA	1 / 8
507064	3/4" - TEFLON	7 bar	■	37,65 €	TA	1 / 8
507065	3/4" - STAINLESS STEEL	7 bar	■	38,05 €	TA	1 / 8

### GS 20 D



- Gruppo di sicurezza serie pesante con scarico orientabile e raccordo dielettrico.
- Safety unit heavy series with swiveling drainage valve and dielectric fitting.
- Groupe de sécurité série lourde avec robinet de vidange orientable et raccord diélectrique.
- Sicherheitsaggregat schwere Serie mit drehbarer Entladeventil und dielektrisch Verbinder.
- Grupo de seguridad serie pesada con descarga orientable y racor dieléctrico.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
507059	3/4" - TEFLON	7 bar	■	59,45 €	TA	1 / 16
506626	3/4" - STAINLESS STEEL	7 bar	■	59,75 €	TA	1 / 16

### AGS 00



- Raccordo dielettrico.
- Dielectric fitting.
- Raccord diélectrique.
- Dielektrisch Verbinder.
- Racor dieléctrico.

Code	Size	Price	Class	Packaging
506585	3/4" F x 1" M	7,68 €	TA	25 / 200

**AGS 01**


- **Imbuto di scarico.**
- *Drain funnel.*
- **Entonnoir de vidange.**
- *Ablasstrichter.*
- **Embudo de vaciado.**

Code	Price	Class	Packaging
507090	3,50 €	TC	1

**AGS 03**


- **Kit raccordi per collegamento boiler a gruppo sicurezza e miscelatore termostatico.**
- *Fittings kit for the connection of the boiler to the safety unit and thermostatic blender.*
- **Kit de raccords pour raccordement du chauffe-eau au groupe sécurité et limiteur de température.**
- *Bausatz Anschlüsse für die Verbindung des Boilers mit Sicherheitsgruppe und thermostatischem Mischer.*
- **Conjunto racores para conexión caldera con grupo de seguridad y mezclador termostático.**

Code	Size	Price	Class	Packaging
507093	3/4" M x 3/4" G.	9,47 €	TC	5 / 40



# SAFEMIX

Combining the thermostatic mixer with the safety unit led to the SAFEMIX unit, a multifunctional monobloc that performs all safety and control functions with only four connections. IVAR is the only company that has implemented this type of solution to date.

Perfect for electric water heaters, SAFEMIX comes with a dielectric connection for decoupling metal parts. The swivelling drain and the special accessory kit with connection pipe and trap make for an even neater installation. The thermostatic mixer is available in adjustable or fixed calibration versions.

## Materials

Body: brass CW617N (nickel-plated on exterior only)

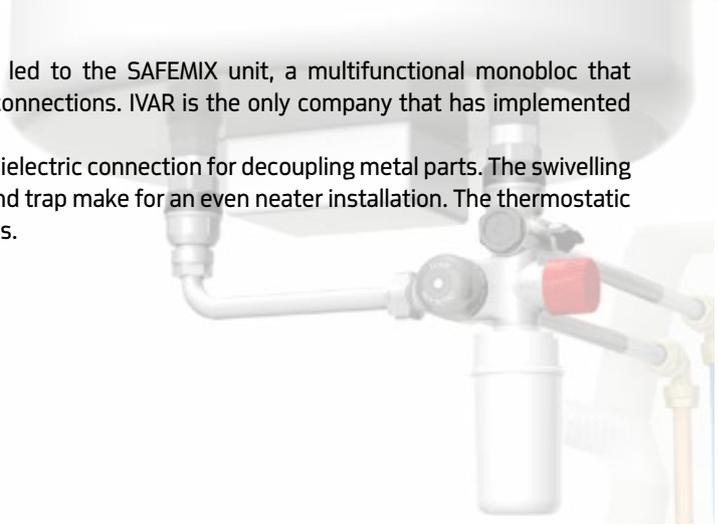
Sealing parts: EPDM

## Technical specifications

Maximum operating temperature: 90 °C

Maximum operating pressure: 10 bar

Safety valve calibration pressure: 7 bar



## ⊕ PLUS

- A thermostatic mixer and a safety unit in a single component
- Ease of installation
- Including a dielectric connection for electrical insulation

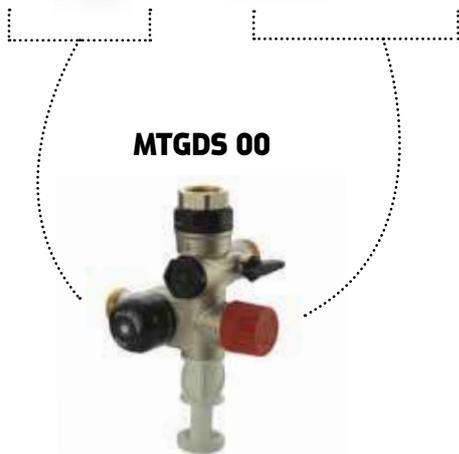
## CERTIFICATION



MT 00



GS 20 D

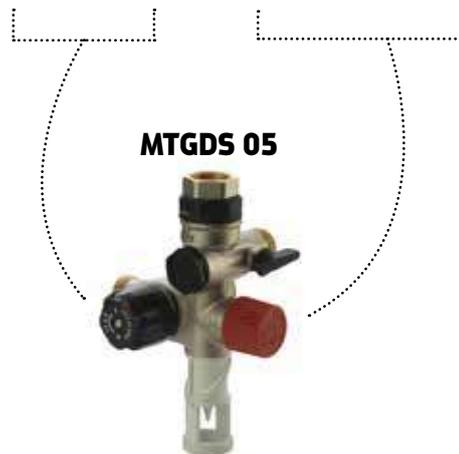


MTGDS 00

MT 05



GS 20 D



MTGDS 05

**SAFEMIX 00**


- Gruppo di sicurezza con scarico orientabile, miscelatore termostatico a taratura fissa integrato e raccordo dielettrico.
- Safety unit with swiveling drainage valve, integrated thermostatic blender with fixed setting and dielectric fitting.
- Groupe de sécurité avec robinet de vidange orientable, limiteur de température à étalonnage fixe intégré et raccord diélectrique.
- Sicherheitsaggregat mit drehbarer Entladeventil, ergänzt Thermostat-Mischer mit fester Eichung und dielektrisch Verbinder.
- Grupo de seguridad con descarga orientable, mezclador termostático a valor fijo integrado y racor dieléctrico.

Code	Size	Range	Max inlet pressure	Color	Price	Class	Packaging
507069	3/4" x 1" F - TEFLON	50 (+0/-3) °C	7 bar	Yellow	155,00 €	TA	1 / 6
506573	3/4" x 1" F - STAINLESS STEEL	50 (+0/-3) °C	7 bar	Red	155,00 €	TA	1 / 6

**SAFEMIX 05**


- Gruppo di sicurezza con scarico orientabile, miscelatore termostatico regolabile integrato e raccordo dielettrico.
- Safety unit with swiveling drainage valve, integrated adjustable thermostatic blender and dielectric fitting.
- Groupe de sécurité avec robinet de vidange orientable, limiteur de température réglable intégré et raccord diélectrique.
- Sicherheitsaggregat mit drehbarer Entladeventil, ergänzt einstellbarer Thermostat-Mischer und dielektrisch Verbinder.
- Grupo de seguridad con descarga orientable, mezclador termostático a valor fijo integrado y racor dieléctrico.

Code	Size	Range	Max inlet pressure	Color	Price	Class	Packaging
507071	3/4" x 1" F - TEFLON	36-50 °C	7 bar	Yellow	155,00 €	TA	1 / 6
506574	3/4" x 1" F - STAINLESS STEEL	36-50 °C	7 bar	Red	155,00 €	TA	1 / 6

**SAFEMIX 10**


- Gruppo di sicurezza con scarico orientabile, miscelatore termostatico a taratura fissa integrato, raccordi dielettrici e kit di collegamento al boiler.
- Safety unit with swiveling drainage valve, integrated thermostatic blender with fixed setting, dielectric fittings and boiler connection kit.
- Groupe de sécurité avec robinet de vidange orientable, limiteur de température à étalonnage fixe intégré, raccords diélectriques et kit pour raccordement au chauffe-eau.
- Sicherheitsaggregat mit drehbarer Entladeventil, ergänzt Thermostat-Mischer mit fester Eichung, dielektrisch Verbinder und Kit für die Verbindung des Boilers.
- Grupo de seguridad con descarga orientable, mezclador termostático a valor fijo integrado, racores dieléctricos y kit de conexión a la caldera.

Code	Size	Range	OC distance	Max inlet pressure	Color	Price	Class	Packaging
506579	3/4" - TEFLON	50 (+0/-3) °C	230 mm	7 bar	Yellow	198,00 €	TA	1 / 6
506577	3/4" - STAINLESS STEEL	50 (+0/-3) °C	230 mm	7 bar	Red	198,00 €	TA	1 / 6

**SAFEMIX 15**


- Gruppo di sicurezza con scarico orientabile, miscelatore termostatico regolabile integrato, raccordi dielettrici e kit di collegamento al boiler.
- Safety unit with swiveling drainage valve, integrated adjustable thermostatic blender, dielectric fittings and boiler connection kit.
- Groupe de sécurité avec robinet de vidange orientable, limiteur de température réglable intégré, raccords diélectriques et kit pour raccordement au chauffe-eau.
- Sicherheitsaggregat mit drehbarer Entladeventil, ergänzt einstellbarer Thermostat-Mischer, dielektrisch Verbinder und Kit für die Verbindung des Boilers.
- Grupo de seguridad con descarga orientable, mezclador termostático ajustable integrado, racores dieléctricos y kit de conexión a la caldera.

Code	Size	Range	OC distance	Max inlet pressure	Color	Price	Class	Packaging
506580	3/4" - TEFLON	36-50 °C	230 mm	7 bar	Yellow	198,00 €	TA	1 / 6
506578	3/4" - STAINLESS STEEL	36-50 °C	230 mm	7 bar	Red	198,00 €	TA	1 / 6

**ASM 05**


- Kit di collegamento al boiler con raccordo dielettrico.
- Boiler connection kit equipped with dielectric fitting.
- Kit pour raccordement au chauffe-eau équipé de raccord diélectrique.
- Kit für die Verbindung des Boilers mit dielektrisch Verbinder.
- Kit de conexión a la caldera con racor dieléctrico.

Code	Size	OC distance	Price	Class	Packaging
506586	3/4"	230 mm	31,28 €	TA	1 / 8

# SAFETY VALVES

## SAFETY VALVES FOR SANITARY APPLICATIONS

Safety valves are overpressure control devices which, when they reach the calibration value, drain fluid to prevent dangerous operating conditions. Suited for use in DHW systems (calibration 7 bar), IVAR valves are available with different connection threads and with or without pressure gauge connection.

### VSC 10 S



- Valvola di sicurezza maschio-femmina.
- Male-female safety valve.
- Clapet de sécurité mâle-femelle.
- Sicherheitsventil AG-IG.
- Válvula de seguridad macho-hembra.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702327	1/2" F x 1/2" M	7 bar	■	10,08 €	TA	20 / 160
5702337	3/4" F x 3/4" M	7 bar	■	11,68 €	TA	15 / 120

### VSC 11 S



- Valvola di sicurezza maschio-femmina con attacco per manometro.
- Male-female safety valve with connection for pressure gauge.
- Clapet de sécurité mâle-femelle avec embout pour manomètre.
- Sicherheitsventil AG-IG mit Anschluß für Manometer.
- Válvula de seguridad macho-hembra con conexión para manómetro.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702467	1/2" M x 1/2" F	7 bar	■	11,28 €	TA	20 / 160
5702477	3/4" M x 3/4" F	7 bar	■	12,43 €	TA	15 / 120

### VSC 00 S



- Valvola di sicurezza femmina-femmina.
- Female-female safety valve.
- Clapet de sécurité femelle-femelle.
- Sicherheitsventil IG-IG.
- Válvula de seguridad hembra-hembra.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702307	1/2" F x 1/2" F	7 bar	■	9,92 €	TA	10 / 80
5702317	3/4" F x 3/4" F	7 bar	■	11,65 €	TA	15 / 120

### VSC 01 S



- Valvola di sicurezza femmina-femmina con attacco per manometro.
- Female-female safety valve with connection for pressure gauge.
- Clapet de sécurité femelle-femelle avec embout pour manomètre.
- Sicherheitsventil IG-IG mit Anschluß für Manometer.
- Válvula de seguridad hembra-hembra con conexión para manómetro.

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702447	1/2" F x 1/2" F	7 bar	■	11,10 €	TA	20 / 160
5702457	3/4" F x 3/4" F	7 bar	■	12,51 €	TA	15 / 120

**MA 10**


- **Manometro con attacco posteriore.**
- *Pressure gauge with rear connection.*
- **Manomètre avec embout postérieur.**
- *Manometer mit rückwärtigem Anschluss.*
- **Manómetro con conexión posterior.**

Code	Size	Range	Price	Class	Packaging
509160	1/4" M	0-10 bar	8,42 €	TA	3 / 48

**VSC 15 S**


- **Valvola di sicurezza maschio-femmina con manometro.**
- *Male-female safety valve with pressure gauge.*
- **Clapet de sécurité mâle-femelle avec manomètre.**
- *Sicherheitsventil AG-IG mit Manometer.*
- **Válvula de seguridad macho-hembra con manómetro.**

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702367	1/2" M x 1/2" F	7 bar	■	19,71 €	TA	1
5702377	3/4" M x 3/4" F	7 bar	■	20,85 €	TA	1

**VSC 05 S**


- **Valvola di sicurezza femmina-femmina con manometro.**
- *Female-female safety valve with pressure gauge.*
- **Clapet de sécurité femelle-femelle avec manomètre.**
- *Sicherheitsventil IG-IG mit Manometer.*
- **Válvula de seguridad hembra-hembra con manómetro.**

Code	Size	Max inlet pressure	Color	Price	Class	Packaging
5702347	1/2" F x 1/2" F	7 bar	■	19,52 €	TA	1
5702357	3/4" F x 3/4" F	7 bar	■	20,93 €	TA	1



# CHECK VALVES

Check valves are devices that prevent the reversal of the direction of flow.

IVAR offers anti-contamination non-return check valves, which, suitably positioned between the water main and user lines, prevent backflow by avoiding direct contact between the two networks and therefore contamination of the water distributed by the mains.

The product range also includes the Europa Valve®, which, because of its special threaded filter, and the water hammer shock absorber, which absorbs any overpressure that might build up in the system, while protecting the components most at risk, can be converted into a foot valve.

## ⊕ PLUS

- EA type devices, can be inspected: because of the two control ports, the correct operation of the check valve can be verified
- Suitable for applications with category 2 water

### ■ VNR 01



- Valvola di non ritorno anti-inquinamento.
- Anti-pollution non return valve.
- Clapet anti-retour antipollution.
- Nicht-verschmutzendes Rückschlagventil.
- Válvula de no retorno anti-contaminación.

Code	Size	Price	Class	Packaging
500899	3/4" - L. 58 mm	10,35 €	HD	180
500900	3/4" - L. 77,5 mm	12,02 €	HD	140

### ■ VR 00



- Valvola modello EUROPA.
- EUROPA model valve.
- Clapet modèle EUROPA.
- Ventil Modell EUROPA.
- Válvula modelo EUROPA.

Code	Size	Max inlet pressure	Operating temp.	Price	Class	Packaging
509045	3/8" F x 3/8" F	25 bar	-20 °C / 100 °C	8,84 €	HD	20 / 80
509046	1/2" F x 1/2" F	25 bar	-20 °C / 100 °C	9,09 €	HD	20 / 80
509047	3/4" F x 3/4" F	25 bar	-20 °C / 100 °C	12,23 €	HD	10 / 40
509048	1" F x 1" F	25 bar	-20 °C / 100 °C	16,66 €	HD	12 / 48
509049	1"1/4 F x 1"1/4 F	18 bar	-20 °C / 100 °C	25,97 €	HD	6 / 24
509050	1"1/2 F x 1"1/2 F	18 bar	-20 °C / 100 °C	35,25 €	HD	4 / 16
509051	2" F x 2" F	18 bar	-20 °C / 100 °C	53,97 €	HD	2 / 8
509052	2"1/2 F x 2"1/2 F	12 bar	-20 °C / 100 °C	123,33 €	HD	3
509053	3" F x 3" F	12 bar	-20 °C / 100 °C	184,18 €	HD	1
509054	4" F x 4" F	12 bar	-20 °C / 100 °C	306,70 €	HD	1

### ■ ACA 00



- Ammortizzatore colpo d'ariete.
- Water-hammer shock absorber.
- Amortisseur du coup de bélier.
- Druckstoßdämpfer.
- Amortiguador golpe de ariete.

Code	Size	Max inlet pressure	Max operating temp.	Price	Class	Packaging
509029	1/2" M	10 bar	130 °C	26,66 €	HD	4 / 12

# STRAINERS

## AVR 00



- Filtro per valvola di fondo modello EUROPA.
- Filter for EUROPA model foot valve.
- Filtre pour clapet de fond modèle EUROPA.
- Filter für Bodenventil Modell EUROPA.
- Filtro para válvula de fondo modelo EUROPA.

Code	Size	Filtration capacity	Price	Class	Packaging
509055	3/8" M	1200 µm	1,48 €	HD	30 / 120
509056	1/2" M	1200 µm	1,48 €	HD	25 / 100
509057	3/4" M	1200 µm	1,66 €	HD	25 / 100
509058	1" M	1200 µm	1,92 €	HD	20 / 80
509059	1"1/4 M	1200 µm	2,48 €	HD	10 / 40
509060	1"1/2 M	1200 µm	3,05 €	HD	10 / 40
509061	2" M	1200 µm	3,95 €	HD	4 / 16
509062	2"1/2 M	2000 µm	7,45 €	HD	2 / 8
509063	3" M	2000 µm	8,97 €	HD	2 / 8
509064	4" M	2000 µm	12,15 €	HD	4

## FI 00



- Filtro autopulente con 2 manometri, cartuccia filtrante estraibile e rubinetto di scarico.
- Self-cleaning filter with 2 pressure gauges, pull-out filter cartridge and discharge cock.
- Filtre autonettoyant avec 2 manomètres, cartouche filtrante extractible et robinet de décharge.
- Selbstreinigender Filter mit 2 Manometer, herausnehmbarem Filtereinsatz und Ablasshahn.
- Filtro autolimpiador con 2 manómetros, cartucho filtrante extraíble y llave de vaciado.

Code	Size	Max inlet pressure	Max operating temp.	Filtration capacity	Price	Class	Packaging
509030	1/2" F x 1/2" F	25 bar	110 °C	100 µm	96,36 €	HD	2
509031	3/4" F x 3/4" F	25 bar	110 °C	100 µm	96,36 €	HD	2
509032	1" F x 1" F	25 bar	110 °C	100 µm	120,39 €	HD	2
509033	1"1/4 F x 1"1/4 F	25 bar	110 °C	100 µm	120,39 €	HD	2
509034	1"1/2 F x 1"1/2 F	25 bar	110 °C	100 µm	165,50 €	HD	2
509035	2" F x 2" F	25 bar	110 °C	100 µm	165,50 €	HD	2
5090303	1/2" F x 1/2" F	25 bar	110 °C	300 µm	94,18 €	HD	2
5090313	3/4" F x 3/4" F	25 bar	110 °C	300 µm	94,18 €	HD	2
5090323	1" F x 1" F	25 bar	110 °C	300 µm	118,03 €	HD	2
5090333	1"1/4 F x 1"1/4 F	25 bar	110 °C	300 µm	118,03 €	HD	2
5090343	1"1/2 F x 1"1/2 F	25 bar	110 °C	300 µm	165,50 €	HD	2
5090353	2" F x 2" F	25 bar	110 °C	300 µm	165,50 €	HD	2

## FI 10



- Filtro a Y completo di cartuccia filtrante e tappo d'ispezione.
- Y-filter complete with filter cartridge and inspection plug.
- Filtre à Y doté de cartouche filtrante et bouchon d'inspection.
- Y-Filter mit Filtereinsatz und Prüfstopfen.
- Filtro en Y completo de cartucho filtrante y tapón de inspección.

Code	Size	Operating temp.	Filtration capacity	Price	Class	Packaging
509036	1/2" F x 1/2" F	-20 °C / 110 °C	500 µm	6,41 €	HD	25
509037	3/4" F x 3/4" F	-20 °C / 110 °C	500 µm	10,28 €	HD	12
509038	1" F x 1" F	-20 °C / 110 °C	500 µm	15,85 €	HD	8
509039	1"1/4 F x 1"1/4 F	-20 °C / 110 °C	500 µm	24,30 €	HD	4 / 16
509040	1"1/2 F x 1"1/2 F	-20 °C / 110 °C	500 µm	32,70 €	HD	2
509041	2" F x 2" F	-20 °C / 110 °C	500 µm	54,07 €	HD	1 / 4
509042	2"1/2 F x 2"1/2 F	-20 °C / 110 °C	800 µm	96,28 €	HD	3
509043	3" F x 3" F	-20 °C / 110 °C	800 µm	137,85 €	HD	3
509044	4" F x 4" F	-20 °C / 110 °C	800 µm	269,21 €	HD	3

# PRESSURE REDUCING VALVES

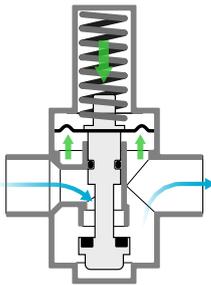
Pressure reducers are devices that are installed at the main inlet of homes to reduce and maintain a constant pressure in domestic users' lines even when there are changes in the mains pressure.



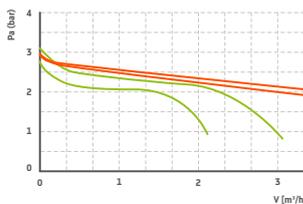
During the day, in fact, the pressure in the mains can vary significantly, especially during peak usage periods in an urban context. Over 24 hours, there is generally a maximum pressure trend at night when water use by users is lower with significant decreases in pressure during daylight hours when water use is more frequent and distributed.

These devices are installed to reduce the pressure in domestic lines compared to the mains pressure in the public network and to keep the pressure constant regardless of any fluctuations caused by the diversity of demand that might occur in the aqueduct. That is why pressure reducers take on more than one meaning in an installation:

- They protect the system from excessive pressure. Generally, the components installed inside a dwelling have a maximum static working pressure of 10 bar, while the pressure of the mains can reach higher levels, which could damage the most critical components;
- they stabilize the pressure in the domestic plumbing system. If this were not the case, there would be different pressures and different flow rates to the individual taps during the day resulting in poor results in terms of convenience in use;
- they reduce wasted water. By stabilising the pressure, they provide correct design flow at the taps, avoiding waste caused by pressure peaks in the mains.
- they avoid noise in the system due to excessive water speed (generated by high flow rates, in turn caused by high pressures) during use as well as vibration phenomena of the pipes and/or their brackets that can be caused by overpressure.



The PRV line of pressure reducers is of the cartridge type with compensated seat: in general, pressure reduction and stabilisation are obtained by the opposed action of the two forces that strike the shutter: one, which tends to close, is exerted by the pressure on the membrane, the other, which tends to open, is the elastic force of a spring. The devices with a compensated seat have the design detail that causes the discharge of the inlet pressure in the same way on both the seat and the spring. This makes the reaction of the device independent of the inlet pressure. Only the outlet pressure, which is discharged on the diaphragm acts on the contrast spring. This makes compensated seat PRVs significantly superior in terms of pressure regulation and stabilisation compared to uncompensated seat PRVs.



PRV pressure reducers also have an indicator for easy calibration of the outlet pressure with a special fitting for the installation of a pressure gauge to read and check downstream pressure (Fig. 1). Furthermore, the knob can be rotated to make the indicator always visible regardless of its installation position.

Also, the cartridge has a filter that can be easily cleaned by removing the cap and cutting off the downstream pressure reducer (Fig. 2).

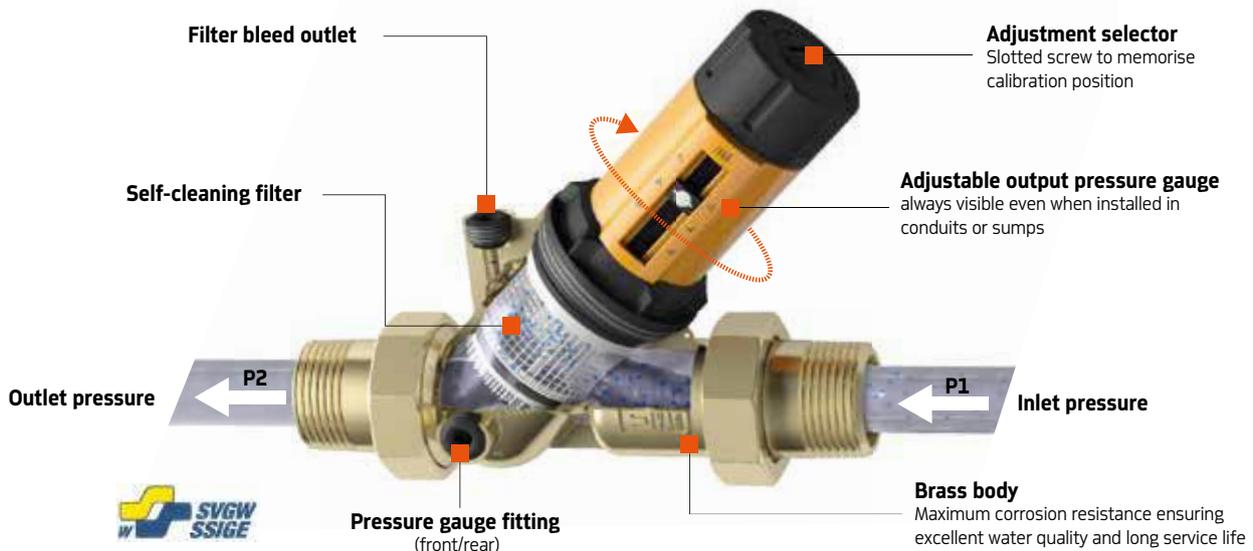
The PRV are available in sizes DN 15, 20, 25, 32 and 40, also in the version with outlets. The PRV series pressure reducers have also been certified according to the EN 1567 European standard by the SVGW institute for applications in cold water (30°C) with inlet pressures not exceeding 16 bar. Nevertheless, IVAR guarantees the product up to a temperature of 70°C and a maximum inlet pressure of 25 bar.



Fig. 1



Fig. 2



## **+** PLUS

- Protects the lines from excessive pressure
- Reduces wasted water
- Prevents noise phenomena in the lines
- The filter can be cleaned without having to remove it

### PRV



- Riduttore di pressione regolabile con filtro autopulente (certificato secondo la norma UNI EN 1567 per acqua fredda: 30 °C, 16 bar).
- Adjustable pressure reducing valve with self-cleaning strainer (certified according to UNI EN 1567 standard for cold water: 30 °C, 16 bar).
- Réducteur de pression réglable avec filtre auto-nettoyant (certifié selon la norme UNI EN 1567 pour l'eau froide: 30 °C, 16 bar).
- Regelbar Druckminderer mit selbstreigener Kartusche Einsatz (Zertifizierung nach Standard UNI EN 1567 für Kaltwasser: 30 °C, 16 bar).
- Reductor de presión con regulación y con filtro autolimpiador (certificado según la norma UNI EN 1567 para el agua fría: 30 °C, 16 bar).

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Filtration capacity	Price	Class	Packaging
509126	DN 15 x 1/2" M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	78,38 €	HD	1
509127	DN 20 x 3/4" M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	94,05 €	HD	1
509128	DN 25 x 1" M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	120,18 €	HD	1
509129	DN 32 x 1"1/4 M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	250,80 €	HD	1
509130	DN 40 x 1"1/2 M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	365,75 €	HD	1

### PRV NB



- Riduttore di pressione regolabile con filtro autopulente senza bocchettoni (certificato secondo la norma UNI EN 1567 per acqua fredda: 30 °C, 16 bar).
- Adjustable pressure reducing valve with self-cleaning strainer without fittings (certified according to UNI EN 1567 standard for cold water: 30 °C, 16 bar).
- Réducteur de pression réglable avec filtre auto-nettoyant sans raccords (certifié selon la norme UNI EN 1567 pour l'eau froide: 30 °C, 16 bar).
- Regelbar Druckminderer mit selbstreigener Kartusche Einsatz ohne Verschraubungen (Zertifizierung nach Standard UNI EN 1567 für Kaltwasser: 30 °C, 16 bar).
- Reductor de presión con regulación y con filtro autolimpiador sin racores (certificado según la norma UNI EN 1567 para el agua fría: 30 °C, 16 bar).

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Filtration capacity	Price	Class	Packaging
509151	DN 15 x 3/4" M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	67,93 €	HD	1
509152	DN 20 x 1" M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	81,51 €	HD	1
509153	DN 25 x 1"1/4 M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	95,10 €	HD	1
509154	DN 32 x 1"1/2 M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	219,45 €	HD	1
509155	DN 40 x 2" M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	318,73 €	HD	1

■ RDP 00



- Riduttore di pressione con filtro ispezionabile in entrata e 2 manometri, funzionamento a membrana.
- Pressure reducing valve with inspection filter on the inlet and 2 pressure gauges, membrane operation.
- Réducteur de pression avec filtre pouvant être inspecté en entrée et 2 manomètres, fonctionnement à membrane.
- Druckminderer mit prüfbarem Filter im Eingang und 2 Manometer, Membranbetrieb.
- Reductor de presión con filtro ispezionabile en entrada y 2 manómetros, operación de membrana.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Price	Class	Packaging
509001	1/2" M x 1/2" M	0,5 - 6 bar	25 bar	3 bar	80 °C	91,44 €	HD	1
509002	3/4" M x 3/4" M	0,5 - 6 bar	25 bar	3 bar	80 °C	112,34 €	HD	1

■ MA 00



- Manometro con attacco radiale.
- Pressure gauge with radial coupling.
- Manomètre avec attache radiale.
- Manometer mit Radialanschluss.
- Manómetro con ataque radial.

Code	Size	Range	Price	Class	Packaging
509065	1/4" M	0-16 bar	8,04 €	HD	3 / 96

■ RDP 10



- Riduttore di pressione, funzionamento a pistone.
- Pressure reducing valve, piston operation.
- Réducteur de pression, fonctionnement à piston.
- Druckminderer, Kolbenbetrieb.
- Reductor de presión, operación de pistón.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Price	Class	Packaging
509003	3/8" F x 3/8" F	1 - 4 bar	15 bar	3 bar	80 °C	19,59 €	HD	1
509004	1/2" F x 1/2" F	1 - 6 bar	15 bar	3 bar	80 °C	19,05 €	HD	1
509005	3/4" F x 3/4" F	1 - 4 bar	15 bar	3 bar	80 °C	20,89 €	HD	1

■ RDP 20



- Riduttore di pressione con attacco per manometro, funzionamento a pistone.
- Pressure reducing valve with pressure gauge coupling, piston operation.
- Réducteur de pression avec attache pour manomètre, fonctionnement à piston.
- Druckminderer mit Anschluss für Manometer, Kolbenbetrie.
- Reductor de presión con ataque por manómetro, operación de pistón.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Price	Class	Packaging
509006	3/8" F x 3/8" F	1 - 4 bar	15 bar	3 bar	80 °C	19,80 €	HD	1
509007	1/2" F x 1/2" F	1 - 4 bar	15 bar	3 bar	80 °C	19,35 €	HD	1
509008	3/4" F x 3/4" F	1 - 4 bar	15 bar	3 bar	80 °C	21,33 €	HD	1

**RDP 30**


- **Riduttore di pressione con sede in acciaio e attacchi per manometro, funzionamento a pistone.**
- *Pressure reducing valve with steel seat and pressure gauge fittings, piston operation.*
- **Réducteur de pression avec siège en acier et attaches pour manomètre, fonctionnement à piston.**
- *Druckminderer mit Stahlaufnahme und Anschlüssen für Manometer, Kolbenbetrieb.*
- **Reductor de presión con asiento de acero y ataques para manómetro, operación de pistón.**

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Price	Class	Packaging
509009	3/8" F x 3/8" F	1 - 6 bar	25 bar	3 bar	80 °C	35,37 €	HD	1
509010	1/2" F x 1/2" F	1 - 6 bar	25 bar	3 bar	80 °C	37,67 €	HD	4 / 32
509011	3/4" F x 3/4" F	1 - 6 bar	25 bar	3 bar	80 °C	42,59 €	HD	2 / 8
509012	1" F x 1" F	1 - 6 bar	25 bar	3 bar	80 °C	62,06 €	HD	1 / 4
509013	1"1/4 F x 1"1/4 F	1 - 6 bar	25 bar	3 bar	80 °C	124,16 €	HD	1 / 4
509014	1"1/2 F x 1"1/2 F	1 - 6 bar	25 bar	3 bar	80 °C	139,23 €	HD	1 / 4
509015	2" F x 2" F	1 - 6 bar	25 bar	3 bar	80 °C	209,09 €	HD	3
509016	2"1/2 F x 2"1/2 F	1 - 6 bar	25 bar	3 bar	80 °C	355,48 €	HD	1
509017	3" F x 3" F	1 - 6 bar	25 bar	3 bar	80 °C	506,43 €	HD	1
509018	4" F x 4" F	1 - 6 bar	25 bar	3 bar	80 °C	1.132,66 €	HD	1

**RDP 40**


- **Riduttore di pressione con sede in acciaio e attacchi per manometro, funzionamento a pistone.**
- *Pressure reducing valve with steel seat and pressure gauge fittings, piston operation.*
- **Réducteur de pression avec siège en acier et attaches pour manomètre, fonctionnement à piston.**
- *Druckminderer mit Stahlaufnahme und Anschlüssen für Manometer, Kolbenbetrieb.*
- **Reductor de presión con asiento en acero y ataques por manómetros, operación de pistón.**

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Price	Class	Packaging
509020	1/2" M x 1/2" M	1 - 6 bar	25 bar	3 bar	80 °C	44,07 €	HD	3
509021	3/4" M x 3/4" M	1 - 6 bar	25 bar	3 bar	80 °C	60,15 €	HD	3 / 24
509022	1" M x 1" M	1 - 6 bar	25 bar	3 bar	80 °C	83,57 €	HD	1 / 8
509023	1"1/4 M x 1"1/4 M	1 - 6 bar	25 bar	3 bar	80 °C	166,69 €	HD	1
509024	1"1/2 M x 1"1/2 M	1 - 6 bar	25 bar	3 bar	80 °C	172,47 €	HD	1
509025	2" M x 2" M	1 - 6 bar	25 bar	3 bar	80 °C	262,85 €	HD	2

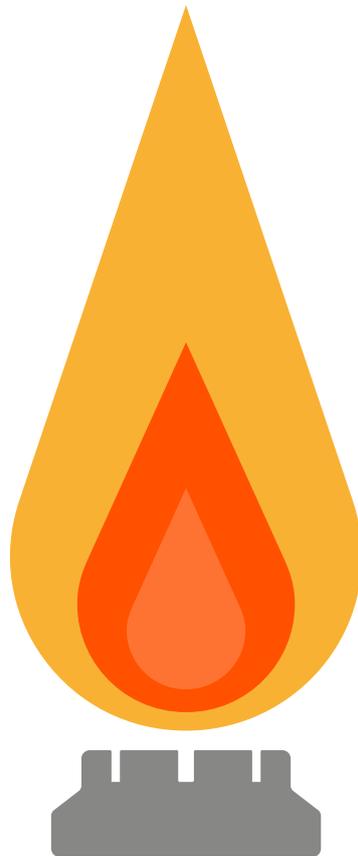
**MA 16**


- **Manometro con attacco posteriore.**
- *Pressure gauge with rear connection.*
- **Manomètre avec embout postérieur.**
- *Manometer mit rückwärtigem Anschluss.*
- **Manómetro con conexión posterior.**

Code	Size	Range	Price	Class	Packaging
509066	1/4" M	0-16 bar	10,55 €	HD	1 / 32



# SYSTEMS FOR GAS



[pim.ivar-group.com/short/IT-10](https://pim.ivar-group.com/short/IT-10)



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Focus tecnici



[pim.ivar-group.com/short/FR-10](https://pim.ivar-group.com/short/FR-10)



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Profundizaciones técnicas





**Sistema tubazioni / raccordi a pressione per gas** 525  
*Gas pipes / press fittings system*  
**Système tuyaux / raccords à presser pour gaz**  
*Gas-Rohre / Press Fittings System*  
**Sistema tuberías / accesorios a prensar para gas**



**Valvole di intercettazione per contatori gas** 531  
*Isolation valves for gas meters*  
**Vannes d'arrêt pour compteurs de gaz**  
*Absperrventile für Gaszähler*  
**Válvulas de interceptación para contadores de gas**

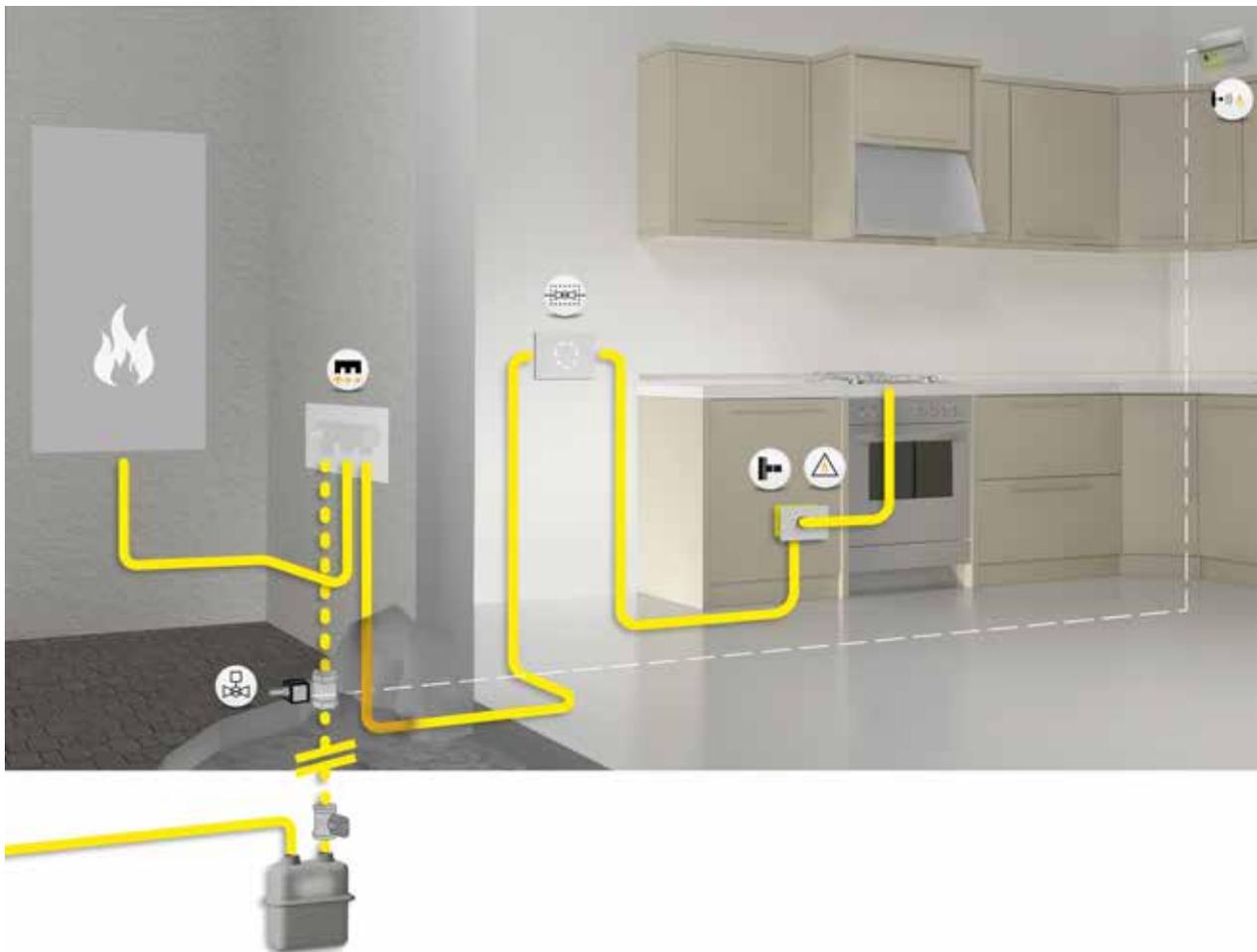


**Sistemi di distribuzione ed intercettazione linee gas sottotraccia domestiche** 535  
*Distribution and isolation systems for chased domestic gas lines*  
**Systèmes de distribution et d'arrêt de lignes de gaz domestiques sous plancher**  
*Verteilungs- und Absperrsystem für Gas-Hausanlagen Unterputz*  
**Sistemas de distribución e interceptación de líneas de tendido subterráneo domésticas**



**Accessori per sistemi gas** 540  
*Accessories for gas systems*  
**Accessoires pour systèmes pour le gaz**  
*Zubehör für Gas-Systeme*  
**Accesorios para sistemas gas**

## INSTALLATION LAYOUT



# MULTI•PRESS•GAS

## MULTI•PRESS GAS SYSTEM - ISO 17484 INTERNATIONAL STANDARD

IVAR S.p.A. is pleased to inform you that we have obtained the KIWA system certification in compliance with standard ISO 17484 – Plastic piping systems – Multilayer pipe systems for indoor gas installations with a maximum operating pressure up to and including 5 bar (500 kPa).

This document certifies the conformity of the MULTIPRESS GAS SYSTEM, consisting of MULTIPRESS GAS fitting combined with the ALPEX GAS pipe by Fraenkische (made in Germany) and with the TH, B (in case of REMS tool) or BE (in case of ROTHENBERGER tool) clamping profiles on diameters 16x2 - 20x2 - 26x3 - 32x3, to the above-mentioned standard.

IVAR S.p.A. reminds you that, as specified in the title of the standard, the certification refers to the entire system, which includes pressing pipe/fitting/tool (which must be supplied by IVAR, REMS or ROTHENBERGER). Moreover, the pressing machine must have a rated thrust force of at least 32 kN.

Therefore, IVAR S.p.A. will not be held liable, either in contractual or extra-contractual terms, for installations involving components that are not included in the MULTIPRESS GAS system or for installations that do not comply with the standards in force in the countries in which ISO 17484 certified systems (gas system installations) are accepted.

### ⊕ PLUS

**Guide for correct crimping**

**CW617N**

**kQ**  
kiwa Quality  
**ISO 17484**

**Solution-treated stainless steel**  
to protect the crimper

**Fitting can be rotated**  
even after crimping

**Extended slots**  
to check for proper pipe insertion

**Double O-Ring in yellow HNBR,**  
EN 549 compliant

**HNBR**

- **Compatible with TH - B/BE crimping profiles**
- **Complete range of figures**
- **Ø from 16 to 32 mm**

Ø (mm)	16	20	26	32
Spessore Thickness Épaisseur Dicke Espesor (mm)	2	2	3	3
BE**	■	■	■	■
B***	■	■	■	■
TH*	■	■	■	■

\* Rothenberger/Rems    \*\* Rothenberger    \*\*\* Rems

*The mentioned pressing jaws are integrated in the system; therefore, they must be supplied by IVAR, REMS or ROTHENBERGER. Moreover, the pressing machine must have a rated thrust force of at least 32 Kn*

### ALPEX GAS B



- Tubo multistrato PE-HD/Al/PE-Xb in barre.
- PE-HD/Al/PE-Xb multilayer pipe in bars.
- Tuyau multicouche PE-HD/Al/PE-Xb en barres.
- Verbundrohr PE-HD/Al/PE-Xb in Stangen.
- Tubo multicapa PE-HD/Al/PE-Xb en barras.

### FRANKISCHE

Code	Size	Length	Color	Price	Class	Packaging
ALPEX-16BGAS	Ø16/2 (Aluminium 0,20 mm)	5 m		3,018 €/m	HY	5 m
ALPEX-20BGAS	Ø20/2 (Aluminium 0,40 mm)	5 m		4,182 €/m	HY	5 m
ALPEX-26BGAS	Ø26/3 (Aluminium 0,65 mm)	5 m		6,468 €/m	HY	5 m
ALPEX-32BGAS	Ø32/3 (Aluminium 0,85 mm)	5 m		10,99 €/m	HY	20 m

### ALPEX GAS R



- Tubo multistrato PE-HD/Al/PE-Xb in rotoli.
- PE-HD/Al/PE-Xb multilayer pipe in coils.
- Tuyau multicouche PE-HD/Al/PE-Xb en rouleaux.
- Verbundrohr PE-HD/Al/PE-Xb in Rollen.
- Tubo multicapa PE-Xb/Al/PE-Xb en rollos.

### FRANKISCHE

Code	Size	Color	Price	Class	Packaging
ALPEX-16RGAS	Ø16/2 (Aluminium 0,20 mm)		2,204 €/m	HY	100 m
ALPEX-20RGAS	Ø20/2 (Aluminium 0,30 mm)		3,059 €/m	HY	100 m
ALPEX-26RGAS	Ø26/3 (Aluminium 0,65 mm)		5,871 €/m	HY	50 m
ALPEX-32RGAS	Ø32/3 (Aluminium 0,85 mm)		9,97 €/m	HY	50 m

### HD GAS



- Guaina corrugata proteggitubo.
- Pipe protection corrugated sheath.
- Gaine de protection tuyau ondulée.
- Welschlauch zum Schutz der Rohre.
- Vaina corrugada de protección del tubo.

### FRANKISCHE

Code	Size	Color	Price	Class	Packaging
HD34GAS	Ø16/2		0,721 €/m	HY	50 / 800 m
HD35GAS	Ø20/2		0,783 €/m	HY	50 / 800 m
HD36GAS	Ø26/3		1,792 €/m	HY	25 / 400 m
HD37GAS	Ø32/3		2,431 €/m	HY	25 / 400 m

**MP 5700 R GAS**


- **Raccordo diritto ridotto.**
- *Straight reduced fitting.*
- **Raccord droit réduit.**
- *Reduzierter Durchgangs-Verbinder.*
- **Racor recto reducido.**

Code	Size	Price	Class	Packaging
510008MPGAS	16/2 x 20/2	5,26 €	IQ	40
510009MPGAS	16/2 x 26/3	7,11 €	IQ	30
510024MPGAS	16/2 x 32/3	9,39 €	IQ	15
510010MPGAS	20/2 x 26/3	7,38 €	IQ	20
510023MPGAS	20/2 x 32/3	10,00 €	IQ	15
510019MPGAS	26/3 x 32/3	10,77 €	IQ	15

**MP 5700 GAS**


- **Raccordo diritto.**
- *Straight fitting.*
- **Raccord droit.**
- *Kupplung.*
- **Racor recto.**

Code	Size	Price	Class	Packaging
510005MPGAS	16/2 x 16/2	4,36 €	IQ	40
510006MPGAS	20/2 x 20/2	5,71 €	IQ	40
510007MPGAS	26/3 x 26/3	8,50 €	IQ	20
510020MPGAS	32/3 x 32/3	12,57 €	IQ	15

**MP 5710 GAS**


- **Raccordo ad angolo.**
- *Angle fitting.*
- **Raccord à angle.**
- *Winkel-Kupplung.*
- **Racor codo.**

Code	Size	Price	Class	Packaging
511009MPGAS	16/2 x 16/2	5,07 €	IQ	30
511010MPGAS	20/2 x 20/2	6,29 €	IQ	30
511011MPGAS	26/3 x 26/3	9,43 €	IQ	15
511012MPGAS	32/3 x 32/3	14,04 €	IQ	10

**MP 5720 GAS**


- **Raccordo a T.**
- *Tee fitting.*
- **Raccord à T.**
- *T-Stück.*
- **Racor en Te.**

Code	Size	Price	Class	Packaging
512001MPGAS	16/2 x 16/2 x 16/2	6,49 €	IQ	20
512002MPGAS	20/2 x 20/2 x 20/2	9,09 €	IQ	16
512003MPGAS	26/3 x 26/3 x 26/3	13,96 €	IQ	10
512020MPGAS	32/3 x 32/3 x 32/3	22,31 €	IQ	8

**MP 5720 RLL GAS**


- **Raccordo a T con attacchi laterali ridotti.**
- *Tee fitting with reduced side connections.*
- **Raccord à T avec connexions latérales réduites.**
- *T-Stück mit reduzierten seitlichen Anschlüssen.*
- **Racor en Te con conexiones laterales reducidas.**

Code	Size	Price	Class	Packaging
512013MPGAS	16/2 x 20/2 x 16/2	8,49 €	IQ	16
512014MPGAS	20/2 x 26/3 x 20/2	12,82 €	IQ	12
512051MPGAS	20/2 x 32/3 x 20/2	19,52 €	IQ	8
512019MPGAS	26/3 x 32/3 x 26/3	20,28 €	IQ	8

**MP 5720 RCL GAS**


- **Raccordo a T con attacco centrale e laterale ridotti.**
- *Tee fitting with reduced central and side connection.*
- **Raccord à T avec connexion centrale et latérale réduites.**
- *T-Stück mit reduziertem Mittel- und Seitenanschluss.*
- **Racor en Te con conexión central y lateral reducida.**

Code	Size	Price	Class	Packaging
512009MPGAS	16/2 x 16/2 x 20/2	8,49 €	IQ	16
512012MPGAS	20/2 x 20/2 x 26/3	12,82 €	IQ	12
512021MPGAS	20/2 x 20/2 x 32/3	19,52 €	IQ	8
512017MPGAS	26/3 x 26/3 x 32/3	20,28 €	IQ	8



### MP 5720 RC GAS



- Raccordo a T con attacco centrale ridotto.
- Tee fitting with reduced central connection.
- Raccord à T avec connexion centrale réduite.
- T-Stück mit reduziertem Zentralanschluss.
- Racor en Te con conexión central reducida.

Code	Size	Price	Class	Packaging
512004MPGAS	20/2 x 16/2 x 20/2	8,81 €	IQ	16
512005MPGAS	26/3 x 16/2 x 26/3	12,82 €	IQ	12
512006MPGAS	26/3 x 20/2 x 26/3	13,14 €	IQ	12
512015MPGAS	32/3 x 16/2 x 32/3	18,33 €	IQ	8
512016MPGAS	32/3 x 20/2 x 32/3	20,37 €	IQ	8
512018MPGAS	32/3 x 26/3 x 32/3	21,38 €	IQ	8

### MP 5720 RL GAS



- Raccordo a T con attacco laterale ridotto.
- Tee fitting with reduced side connection.
- Raccord à T avec connexion latérale réduite.
- T-Stück mit reduziertem seitlichen Anschluss.
- Racor en Te con conexión lateral reducida.

Code	Size	Price	Class	Packaging
512007MPGAS	20/2 x 20/2 x 16/2	8,81 €	IQ	16
512048MPGAS	26/3 x 26/3 x 16/2	12,82 €	IQ	12
512008MPGAS	26/3 x 26/3 x 20/2	13,13 €	IQ	12
512068MPGAS	32/3 x 32/3 x 16/2	18,33 €	IQ	8
512052MPGAS	32/3 x 32/3 x 20/2	20,37 €	IQ	8
512053MPGAS	32/3 x 32/3 x 26/3	21,38 €	IQ	8

### MP 5720 RR GAS



- Raccordo a T con attacchi a doppia riduzione.
- Tee fitting with double reduction connections.
- Raccord à T avec des connexions à double réduction.
- T-Stück mit Doppel Reduktion Anschlüssen.
- Racor en Te con conexiones de doble reducción.

Code	Size	Price	Class	Packaging
512010MPGAS	26/3 x 16/2 x 20/2	11,63 €	IQ	12
512011MPGAS	26/3 x 20/2 x 16/2	11,63 €	IQ	12
512050MPGAS	32/3 x 20/2 x 26/3	19,63 €	IQ	8
512024MPGAS	32/3 x 26/3 x 20/2	19,63 €	IQ	8

### MP 5608 GAS



- Raccordo diritto maschio.
- Straight male fitting.
- Raccord droit mâle.
- Durchgang AG Verbinder.
- Racor recto macho.

Code	Size	Price	Class	Packaging
510084MPGAS	3/8" M x 16/2	4,65 €	IQ	50
510001MPGAS	1/2" M x 16/2	3,38 €	IQ	40
510105MPGAS	3/4" M x 16/2	5,31 €	IQ	30
510002MPGAS	1/2" M x 20/2	3,91 €	IQ	40
510003MPGAS	3/4" M x 20/2	4,96 €	IQ	30
510004MPGAS	3/4" M x 26/3	6,47 €	IQ	30
510044MPGAS	1" M x 26/3	8,10 €	IQ	20
510021MPGAS	1" M x 32/3	9,76 €	IQ	20

### MP 5711 GAS



- Raccordo ad angolo maschio.
- Male angle fitting.
- Raccord à angle mâle.
- AG Winkel-Verbinder.
- Racor codo macho.

Code	Size	Price	Class	Packaging
511001MPGAS	1/2" M x 16/2	4,21 €	IQ	40
511002MPGAS	1/2" M x 20/2	5,02 €	IQ	30
511003MPGAS	3/4" M x 20/2	6,31 €	IQ	20
511004MPGAS	3/4" M x 26/3	7,50 €	IQ	20
511113MPGAS	1" M x 26/3	11,64 €	IQ	10
511013MPGAS	1" M x 32/3	12,72 €	IQ	10

### MP 5721 GAS



- Raccordo a T maschio.
- Male tee fitting.
- Raccord à T mâle.
- AG T-Stück.
- Racor Te rosca macho.

Code	Size	Price	Class	Packaging
512029MPGAS	16/2 x 1/2" M x 16/2	7,66 €	IQ	20
512030MPGAS	20/2 x 1/2" M x 20/2	8,52 €	IQ	16
512031MPGAS	16/2 x 3/4" M x 16/2	9,30 €	IQ	20
512032MPGAS	20/2 x 3/4" M x 20/2	9,73 €	IQ	16
512067MPGAS	26/3 x 3/4" M x 26/3	11,31 €	IQ	10

**MP 5613 GAS**


- Raccordo diritto femmina.
- Straight female fitting.
- Raccord droit femelle.
- Durchgang IG Verbinder.
- Racor recto hembra.

Code	Size	Price	Class	Packaging
510011MPGAS	1/2" F x 16/2	3,78 €	IQ	40
510109MPGAS	3/4" F x 16/2	4,98 €	IQ	30
510012MPGAS	1/2" F x 20/2	4,48 €	IQ	40
510013MPGAS	3/4" F x 20/2	5,30 €	IQ	30
510014MPGAS	3/4" F x 26/3	6,08 €	IQ	20
510047MPGAS	1" F x 26/3	7,24 €	IQ	15
510022MPGAS	1" F x 32/3	9,06 €	IQ	15

**MP 5703 GAS**


- Raccordo diritto con dado girevole a tenuta piana.
- Straight fitting with flat seal and rotating nut.
- Raccord droit avec écrou tournant à joint plat étanche.
- Gerades Verbindungsstück mit flach abgedichteter drehbarer Mutter.
- Racor recto con arandela y junta de estanqueidad plana.

Code	Size	Price	Class	Packaging
510085MPGAS	1/2" F x 16/2	4,21 €	IQ	40
510087MPGAS	1/2" F x 20/2	4,94 €	IQ	30
510076MPGAS	3/4" F x 16/2	4,94 €	IQ	30
510078MPGAS	3/4" F x 20/2	5,35 €	IQ	30
510088MPGAS	3/4" F x 26/3	6,48 €	IQ	30
510079MPGAS	1" F x 26/3	7,61 €	IQ	25
510089MPGAS	1" F x 32/3	10,28 €	IQ	20
510080MPGAS	1"1/4 F x 32/3	11,24 €	IQ	15

**MP 5712 GAS**


- Raccordo ad angolo femmina.
- Female angle fitting.
- Raccord à angle femelle.
- IG Winkel-Verbinder.
- Racor codo hembra.

Code	Size	Price	Class	Packaging
511005MPGAS	1/2" F x 16/2	3,95 €	IQ	30
511006MPGAS	1/2" F x 20/2	4,82 €	IQ	30
511007MPGAS	3/4" F x 20/2	6,21 €	IQ	25
511008MPGAS	3/4" F x 26/3	7,67 €	IQ	20
511114MPGAS	1" F x 26/3	11,69 €	IQ	10
511014MPGAS	1" F x 32/3	11,78 €	IQ	10

**MP 5712 L GAS**


- Raccordo ad angolo femmina lungo.
- Female angle fitting long.
- Raccord à angle femelle long.
- IG Winkel-Verbinder lang.
- Racor codo hembra largo.

Code	Size	Price	Class	Packaging
511029MPGAS	1/2" F x 16/2	4,42 €	IQ	25
511103MPGAS	1/2" F x 20/2	5,28 €	IQ	25

**MP 5722 GAS**


- Raccordo a T femmina.
- Female tee fitting.
- Raccord à T femelle.
- IG T-Stück.
- Racor Te rosca hembra.

Code	Size	Price	Class	Packaging
512022MPGAS	16/2 x 1/2" F x 16/2	6,90 €	IQ	20
512028MPGAS	16/2 x 3/4" F x 16/2	7,98 €	IQ	16
512027MPGAS	20/2 x 1/2" F x 20/2	8,21 €	IQ	16
512023MPGAS	20/2 x 3/4" F x 20/2	9,89 €	IQ	16
512047MPGAS	26/3 x 1/2" F x 20/2	11,76 €	IQ	12
512046MPGAS	26/3 x 1/2" F x 26/3	11,46 €	IQ	12
512042MPGAS	26/3 x 3/4" F x 26/3	10,81 €	IQ	10
512104MPGAS	26/3 x 1" F x 26/3	16,19 €	IQ	10
512043MPGAS	32/3 x 3/4" F x 32/3	17,73 €	IQ	10
512044MPGAS	32/3 x 1" F x 32/3	17,74 €	IQ	10

**MP 5760 GAS**


- Raccordo murale.
- Wall fitting.
- Raccord mural.
- Wand-Verbinder.
- Racor codo con base.

Code	Size	Height	Price	Class	Packaging
513001CMPGAS	1/2" F x 16/2	40 mm	6,79 €	IQ	15
513002CMPGAS	1/2" F x 20/2	40 mm	7,11 €	IQ	15
513001MPGAS	1/2" F x 16/2	52 mm	6,94 €	IQ	15
513002MPGAS	1/2" F x 20/2	52 mm	7,74 €	IQ	15
513003MPGAS	3/4" F x 20/2	57 mm	10,12 €	IQ	10
513004MPGAS	3/4" F x 26/3	57 mm	10,70 €	IQ	10



**MP 5701 GAS**



- Tappo.
- Plug.
- Bouchon.
- Verschluss.
- Tapón.

Code	Size	Price	Class	Packaging
510071MPGAS	16/2	3,78 €	IQ	40
510073MPGAS	20/2	4,98 €	IQ	40
510074MPGAS	26/3	6,96 €	IQ	35
510075MPGAS	32/3	9,55 €	IQ	30

**AR 08 MP GAS**



- Boccole di ricambio per MULTI PRESS GAS.
- Spare bushes for MULTI PRESS GAS.
- Douilles de rechange pour MULTI PRESS GAS.
- Ersatzhülsen für MULTI PRESS GAS.
- Casquillo para MULTI PRESS GAS.

Code	Size	Price	Class	Packaging
502120MPGAS	16/2	1,20 €	IG	50
502122MPGAS	20/2	1,31 €	IG	50
502124MPGAS	26/3	1,83 €	IG	20
502125MPGAS	32/3	1,99 €	IG	15

**AR 10 R**



- Pinze per raccordi a pressare.
- Jaws for press fittings.
- Pincés pour raccords à presser.
- Zangen für Pressanschlüsse.
- Pinzas para accesorios a prensar.



Code	Size	Price	Class	Packaging
501741RBE	Ø16 BE	425,00 €	IR	1
501743RBE	Ø20 BE	425,00 €	IR	1
501744RBE	Ø26 BE	425,00 €	IR	1
501745RBE	Ø32 BE	425,00 €	IR	1
501741RR	Ø16 R	316,66 €	IR	1
501742RR	Ø18 R	316,66 €	IR	1
501743RR	Ø20 R	316,66 €	IR	1
501730RR	Ø25 R	414,64 €	IR	1
501744RR	Ø26 R	316,66 €	IR	1
501745RR	Ø32 R	316,66 €	IR	1
501741RTH	Ø16 TH	257,84 €	IR	1
501742RTH	Ø18 TH	316,66 €	IR	1
501743RTH	Ø20 TH	257,84 €	IR	1
501730RTH	Ø25 TH	316,66 €	IR	1
501744RTH	Ø26 TH	257,84 €	IR	1
501745RTH	Ø32 TH	257,84 €	IR	1
501746RTH	Ø40 TH	642,48 €	IR	1
501741RU	Ø16 U	316,66 €	IR	1
501742RU	Ø18 U	316,66 €	IR	1
501743RU	Ø20 U	316,66 €	IR	1
501730RU	Ø25 U	316,66 €	IR	1
501745RU	Ø32 U	316,66 €	IR	1
501746RU	Ø40 U	642,48 €	IR	1

# ISOLATION VALVES FOR METERS

The shut-off valves for gas meters made by IVAR are equipped with a pressure fitting for fast and secure system testing and with a safety handle to prevent accidental operation.

The pressure fitting is DVGW certified according to VP 308 and complies with the requirements of UNI 7129-1:2015 and UNI 11137. Thanks to a system with a double safety valve, the system test takes place safely without risk of gas leakage (fig. 1).

The valves for meters are equipped with a safety handle for locking them in the closed position, to prevent accidental openings. The valve is opened by pressing the handle. This safety device is recommended in the event that the valve can be accessed exclusively by an individual user (fig. 2).

In the event that the shut-off valve can also be accessed by other staff, standard UNI 7129-1:2015, section 4.1 requires the use of a handle with a safety key. This key can also be used in event of a default situation (fig. 3).

**O: the key can be removed, and in this position the valve can be closed even without a key.**

**U: The key cannot be removed and the valve can be opened**

**M: PASSPARTOUT function that prevents the user key from being used.**

The shut-off valves for meters are DVGW certified according to standard EN 331.

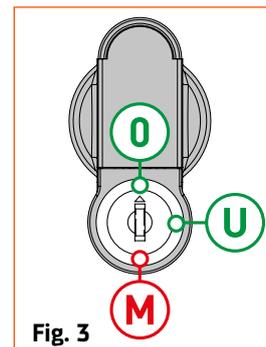
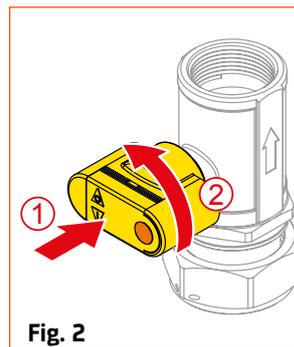
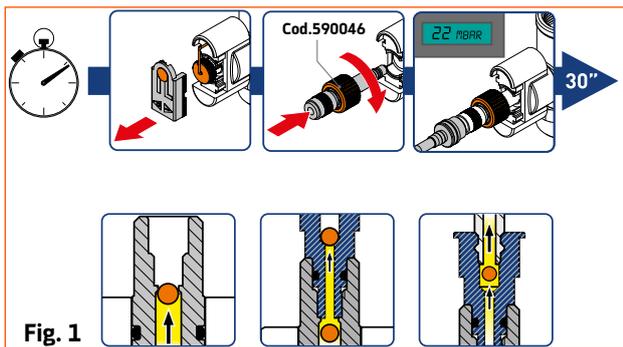
## Technical characteristics

Operating pressure MOP 5

Operating temperature: -20°C; +60°C

Connections: threaded EN 10226-1 or ISO 228-1 (connection con swivel nut)

Fields of application: transport of all types of gas as specified in EN 437 and DVGW G260/1 (methane, butane, propane).



## KPI 00



- Kit presa di pressione per prova impianto, completo di innesto rapido filettato 1/4" F.
- Pressure fitting kit the system testing, complete with threaded 1/4" F quick coupling
- Kit de prise de pression pour test d'installation, avec raccord à enclenchement rapide fileté 1/4" F
- Druckprüf-Kit zur Anlagenprüfung, einschließlich 1/4" IG Schnellkupplung
- Kit de toma de presión para la prueba de la instalación, con conexión rápida roscada 1/4" F.

Code	Size	Price	Class	Packaging
590046	1/4" F	31,69 €	ZF	1



### ■ VGD 00



- Valvola diritta per intercettazione contatore gas, completa di presa di pressione e maniglia di sicurezza. Attacchi: femmina-femmina
- Straight valve for gas meter interception, complete with pressure fitting and safety handle. Connections: female-female
- Vanne droite d'arrêt pour compteur de gaz, avec prise de pression et poignée de sécurité. Raccords : femelle-femelle
- Durchgangsventil zum Absperren des Gaszählers, komplett mit Prüföffnung und Sicherheitshandgriff. Anschlüsse: IG-IG
- Válvula recta de interceptación para contador de gas, con toma de presión y manilla de seguridad. Conexiones: hembra-hembra

Code	Size (D1 x D2)	Color	Price	Class	Packaging
590047	3/4" F x 3/4" F		74,33 €	ZF	1
590048	1" F x 1" F		75,57 €	ZF	1

### ■ VGDX 00



- Valvola a 90° destra per intercettazione contatore gas, completa di presa di pressione e maniglia di sicurezza. Attacchi: femmina-femmina
- Right hand 90° valve for gas meter interception, complete with pressure fitting and safety handle. Connections: female-female
- Vanne à 90° à droite d'arrêt pour compteur de gaz, avec prise de pression et poignée de sécurité Raccords : femelle-femelle
- 90°-Ventil rechts zum Absperren des Gaszählers, komplett mit Prüföffnung und Sicherheitshandgriff. Anschlüsse: IG-IG
- Válvula a 90° derecha de interceptación para contador de gas, con toma de presión y manilla de seguridad. Conexiones: hembra-hembra

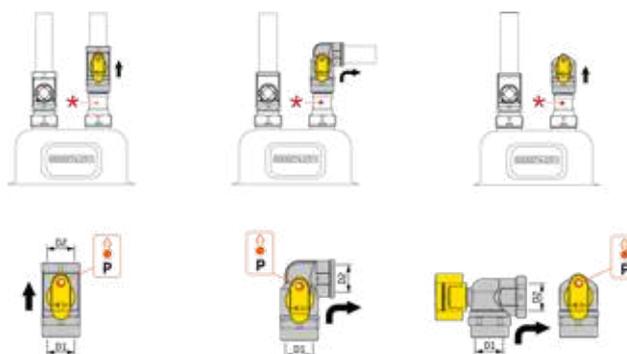
Code	Size (D1 x D2)	Color	Price	Class	Packaging
590053	1" F x 1" F		85,79 €	ZF	1

### ■ VGS 00



- Valvola ad angolo per intercettazione contatore gas, completa di presa di pressione e maniglia di sicurezza. Attacchi: femmina-femmina.
- Angle valve for gas meter interception, complete with pressure fitting and safety handle. Connections: female-female
- Vanne à angle d'arrêt pour compteur de gaz, avec prise de pression et poignée de sécurité Raccords : femelle-femelle
- Eckventil zum Absperren des Gaszählers, komplett mit Prüföffnung und Sicherheitshandgriff. Anschlüsse: IG-IG
- Válvula angular de interceptación para contador de gas, con toma de presión y manilla de seguridad. Conexiones: hembra-hembra

Code	Size (D1 x D2)	Color	Price	Class	Packaging
590054	1" F x 1" F		74,33 €	ZF	1



- Zona di accesso ad uso esclusivo del singolo utente. | \*Raccordo di uscita a carico del distributore.
- Exclusive individual user use access area. | \*Output fitting is the distributor's responsibility.
- Zone d'accès à l'usage exclusif de l'utilisateur individuel. | \*Raccord de sortie à charge du distributeur.
- Die Nutzung des Zugangsbereichs ist ausschließlich dem Eigentümer vorbehalten. | \*Auslaufanschluss zu Lasten des Verteilers.
- Zona de acceso de uso de un solo usuario exclusivamente. | \*Racor de salida a cargo del distribuidor.

**■ VGD 10**


- **Valvola diritta per intercettazione contatore gas, completa di presa di pressione e maniglia di sicurezza. Attacchi: dado girevole ingresso –femmina uscita**
- *Straight valve for gas meter interception, complete with pressure fitting and safety handle. Connections: swivel nut on inlet - female on outlet*
- **Vanne droite d'arrêt pour compteur de gaz, avec prise de pression et poignée de sécurité. Raccords : écrou pivotant à l'entrée - femelle à la sortie**
- *Durchgangsventil zum Absperren des Gaszählers, komplett mit Prüföffnung und Sicherheitshandgriff. Anschlüsse: Eingang Überwurfmutter – Ausgang Innengewinde*
- **Válvula recta de interceptación para contador de gas, con toma de presión y manilla de seguridad. Conexiones: tuerca giratoria entrada – hembra salida**

Code	Size (D1 x D2)	Color	Price	Class	Packaging
590049	1"1/4 swivel x 3/4" F		89,40 €	ZF	1
590050	1"1/4 swivel x 1" F		90,70 €	ZF	1
590051	1" swivel x 3/4" F		89,40 €	ZF	1
590052	1" swivel x 1" F		90,70 €	ZF	1

**■ VGDX 10**

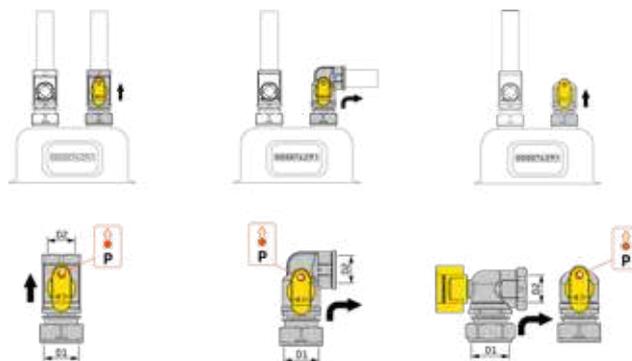

- **Valvola a 90° destra per intercettazione contatore gas, completa di presa di pressione e maniglia di sicurezza. Attacchi: dado girevole ingresso –femmina uscita**
- *Right hand 90° valve for gas meter interception, complete with pressure fitting and safety handle. Connections: swivel nut on inlet - female on outlet*
- **Vanne à 90° à droite d'arrêt pour compteur de gaz, avec prise de pression et poignée de sécurité Raccords : écrou pivotant à l'entrée - femelle à la sortie**
- *90°-Ventil rechts zum Absperren des Gaszählers, komplett mit Prüföffnung und Sicherheitshandgriff. Anschlüsse: Eingang Überwurfmutter – Ausgang Innengewinde*
- **Válvula a 90° derecha de interceptación para contador de gas, con toma de presión y manilla de seguridad. Conexiones: tuerca giratoria entrada – hembra salida**

Code	Size (D1 x D2)	Color	Price	Class	Packaging
590055	1" swivel x 1" F		100,92 €	ZF	1

**■ VGS 10**


- **Valvola ad angolo per intercettazione contatore gas, completa di presa di pressione e maniglia di sicurezza. Attacchi: dado girevole ingresso –femmina uscita**
- *Angle valve for gas meter interception, complete with pressure fitting and safety handle. Connections: swivel nut on inlet - female on outlet*
- **Vanne à angle d'arrêt pour compteur de gaz, avec prise de pression et poignée de sécurité Raccords : écrou pivotant à l'entrée - femelle à la sortie**
- *Eckventil zum Absperren des Gaszählers, komplett mit Prüföffnung und Sicherheitshandgriff. Anschlüsse: Eingang Überwurfmutter – Ausgang Innengewinde*
- **Válvula angular de interceptación para contador de gas, con toma de presión y manilla de seguridad. Conexiones: tuerca giratoria entrada – hembra salida**

Code	Size (D1 x D2)	Color	Price	Class	Packaging
590056	1" swivel x 1" F		92,19 €	ZF	1



- **Zona di accesso ad uso esclusivo del singolo utente.**
- *Exclusive individual user use access area.*
- **Zone d'accès à l'usage exclusif de l'utilisateur individuel.**
- *Die Nutzung des Zugangsbereichs ist ausschließlich dem Eigentümer vorbehalten.*
- **Zona de acceso de uso de un solo usuario exclusivamente.**



### ■ VGD 05



- Valvola diritta per intercettazione contatore gas, completa di presa di pressione, maniglia con chiave di sicurezza e morosità. Attacchi: femmina - femmina
- Straight valve for gas meter interception, complete with pressure fitting, handle with safety and default procedure key. Connections: female - female
- Vanne droite d'arrêt pour compteur de gaz, avec prise de pression et poignée à clé de sécurité et suspension pour défaut de paiement. Raccords : femelle-femelle
- Durchgangsventil zum Absperren des Gaszählers, komplett mit Prüföffnung und Handgriff mit Sicherheitsschlüssel und Absperrung bei Zahlungsverzug. Anschlüsse: IG-IG
- Válvula recta de interceptación para contador de gas, con toma de presión y manilla con clave de seguridad y morosidad. Conexiones: hembra - hembra

Code	Size (D1 x D2)	Color	Price	Class	Packaging
590057	3/4" F x 3/4" F		117,10 €	ZF	1
590058	1" F x 1" F		118,16 €	ZF	1

### ■ VGDX 05



- Valvola a 90° destra per intercettazione contatore gas, completa di presa di pressione, maniglia con chiave di sicurezza e morosità. Attacchi: femmina - femmina
- Right hand 90° valve for gas meter interception, complete with pressure fitting, handle with safety and default procedure key. Connections: female - female
- Vanne à 90° à droite d'arrêt pour compteur de gaz, avec prise de pression et poignée à clé de sécurité et suspension pour défaut de paiement. Raccords : femelle-femelle
- 90°-Ventil zum Absperren des Gaszählers, komplett mit Prüföffnung und Handgriff mit Sicherheitsschlüssel und Absperrung bei Zahlungsverzug. Anschlüsse: IG-IG
- Válvula a 90° derecha de interceptación para contador de gas, con toma de presión y manilla con clave de seguridad y morosidad. Conexiones: hembra - hembra

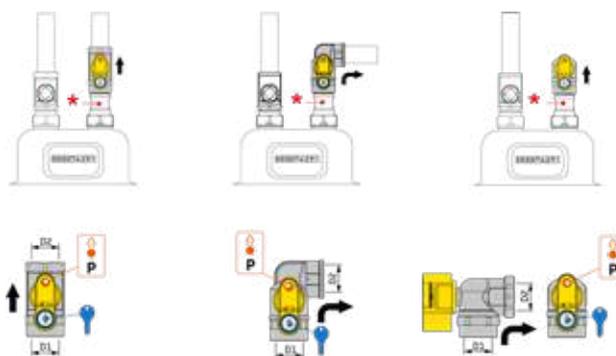
Code	Size (D1 x D2)	Color	Price	Class	Packaging
590059	1" F x 1" F		128,37 €	ZF	1

### ■ VGS 05



- Valvola ad angolo per intercettazione contatore gas, completa di presa di pressione e maniglia con chiave di sicurezza e morosità. Attacchi: femmina - femmina
- Angle valve for gas meter interception, complete with pressure fitting and handle with safety and default procedure key. Connections: female - female
- Vanne à angle d'arrêt pour compteur de gaz, avec prise de pression et poignée à clé de sécurité et suspension pour défaut de paiement. Raccords : femelle-femelle
- Eckventil zum Absperren des Gaszählers, komplett mit Prüföffnung und Handgriff mit Sicherheitsschlüssel und Absperrung bei Zahlungsverzug. Anschlüsse: IG-IG
- Válvula angular de interceptación para contador de gas, con toma de presión y manilla con clave de seguridad y morosidad. Conexiones: hembra - hembra

Code	Size (D1 x D2)	Color	Price	Class	Packaging
590060	1" F x 1" F		160,60 €	ZF	1



- Zona di accesso ad uso esclusivo del singolo utente. | \*Raccordo di uscita a carico del distributore.
- Exclusive individual user use access area. | \*Output fitting is the distributor's responsibility.
- Zone d'accès à l'usage exclusif de l'utilisateur individuel. | \*Raccord de sortie à charge du distributeur.
- Die Nutzung des Zugangsbereichs ist ausschließlich dem Eigentümer vorbehalten. | \*Auslaufanschluss zu Lasten des Verteilers.
- Zona de acceso de uso de un solo usuario exclusivamente. | \*Racor de salida a cargo del distribuidor.

# DISTRIBUTION AND ISOLATION



Images for illustration purposes only



CGAS 00



RT 00



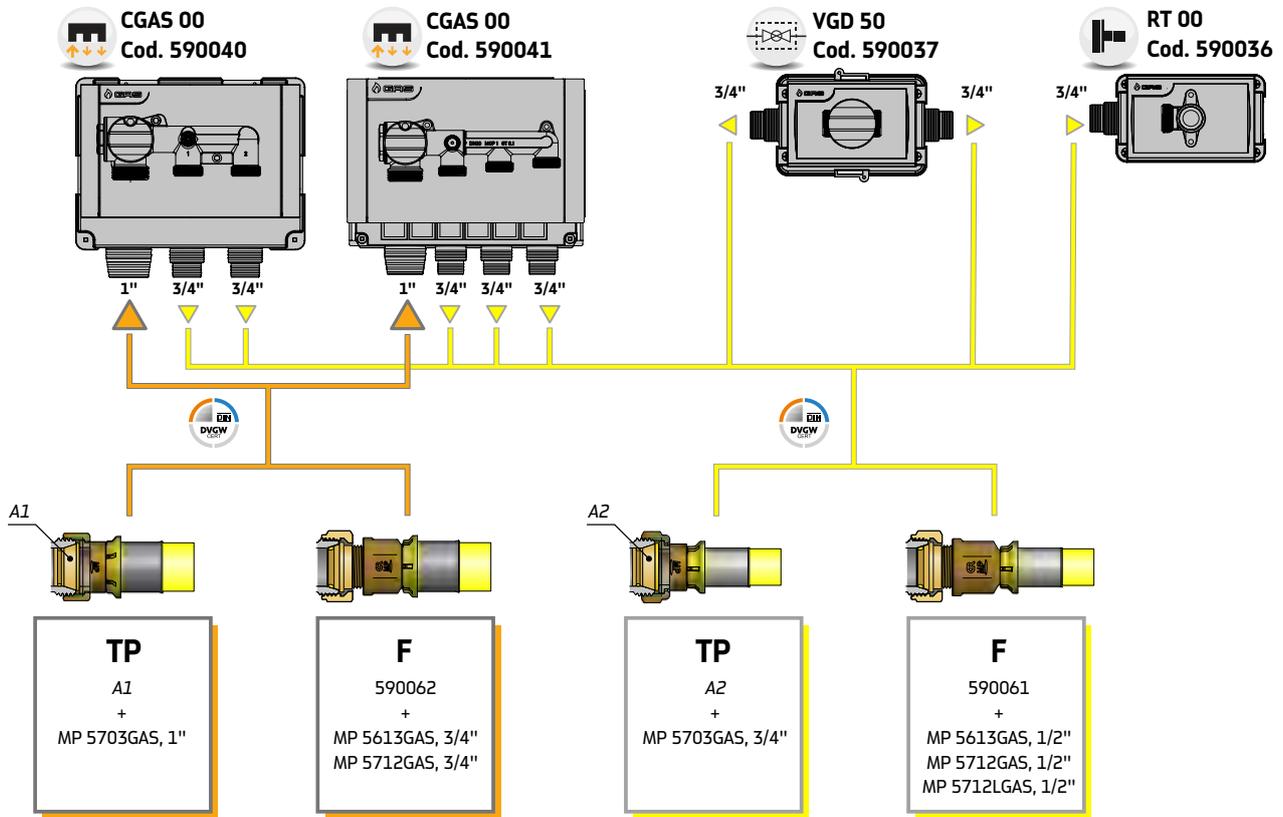
RST 00



VGD 50



**MANIFOLDS AND UNDER-FLOOR VALVES CONNECTIONS WITH SUITABLE FITTINGS**



**A1** - flat seal adapter for 1" (included in the manifold package)

**A2** - flat seal adapter for 3/4" (included in the manifold package)

**TP** - flat seal connection

**F** - threaded connection; flat-seal A1 adapter must not be used

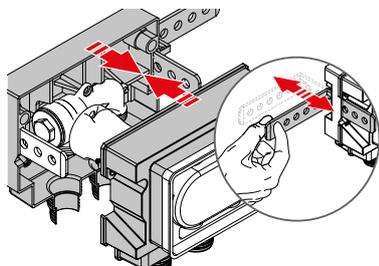


Fig. 1

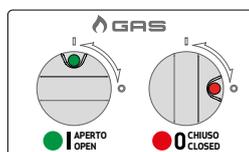


Fig. 2

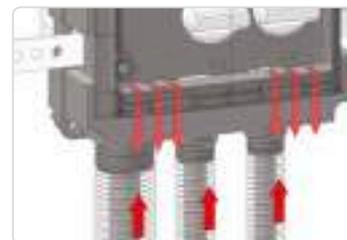


Fig. 3

IVAR offers a series of components suitable for the distribution and interception of chased gas lines in domestic systems: distribution manifolds with integrated shut-off valves, for general interception and simple utility shut-off valves, all DVGW certified according to standard EN 331 .

A general interception device is a device (tap or valve) whose purpose is to close an internal system and is usually installed on the first system branch.

Utility shut-off valves must be installed upstream of each appliance being used, i.e. upstream of the flexible or rigid connection between the appliance and the internal system. These devices must always be installed in order to be easily accessible by any user.

The chased installation of the devices is facilitated by special sandwich boxes with depth-adjustable brackets (fig.1).

These components ensure easy access to interception devices in compliance with the standards, but without affecting the aesthetics of the environment, thanks to cover plates with an accurate design and finish (fig.2).

In addition, the boxes for utility shut-off valves and manifolds ensure effective ventilation to the outside in the event of leaks, without using sealant, in accordance with standard UNI 7129-1: 2015 (fig.3).

The manifolds and shut-off valves are fitted with a flat seal adapter (equipped with a high temperature resistance gasket) for possible connection to multilayer gas pipes with flat seal press fittings.

An alternative is to use a special nozzle that ensures connection with a female EN 10226-1 compliant fitting.

**ATTENTION:** the manifold and valve connections are not compatible with EUROKONUS profile fittings!

The distribution and interception manifolds are also equipped with a pressure fitting for system testing.

#### Technical characteristics

Operating pressure MOP 1

Operating temperature: -20°C; +60°C

Thermal resistance: HTB GT 0.1 650°C x 30 min.

Connections: tapered seal (+ flat seal adapter)

Fields of application: for all types of gas as specified in EN 437 and DVGW G260/1



■ CGAS 00



- Collettore di distribuzione monointercettazione a due o tre uscite, completo di scatola per installazione sottotraccia, presa di pressione. Attacco principale (D1) e attacchi di distribuzione (D2) a tenuta conica con adattatore a tenuta piana incluso.
- Mono-interception distribution manifold with two or three outlets, complete with box for chased installation, pressure fitting. Main connection (D1) and distribution connections (D2) with tapered seal and flat seal adapter included
- Collecteur de distribution avec une seule vanne d'arrêt, à deux ou trois sorties, avec boîtier pour l'installation sous plancher et prise de pression. Raccord principal (D1) et raccords de distribution (D2) à joint d'étanchéité conique avec adaptateur à joint d'étanchéité plat inclus.
- Mono-Absperrverteiler mit zwei oder drei Ausgängen, komplett mit UP-Gehäuse, Prüföffnung. Hauptanschluss (D1) und Abgänge (D2) konisch dichtend, einschließlich Adapter mit Flachdichtung
- Colector de distribución monointercettazione con dos o tres salidas, con caja para la instalación de tendido subterráneo y toma de presión. Conexión principal (D1) y conexiones de distribución (D2) con junta de estanqueidad cónica con adaptador con junta de estanqueidad plana incluida

Code	Ways	Size (D1 x D2)	Color	Price	Class	Packaging
590040	2	1" x 3/4"	■	143,98 €	ZF	1
590041	3	1" x 3/4"	■	162,00 €	ZF	1

■ ACGAS 05



- Placca bianca di copertura per scatola ad incasso collettori di distribuzione monointercettazione
- White cover plate for recessed mono-interception distribution manifold box
- Plaque blanche de couverture pour boîtier encastrable pour les collecteurs de distribution à vanne d'arrêt unique
- Weiße Abdeckplatte für UP-Gehäuse für Mono-Absperrverteiler
- Placa blanca de cobertura para caja de empotrado de colectores de distribución monointercettazione

Code	Size	Manifolds type	Color	Price	Class	Packaging
590042	196 x 120 mm	590040	□	30,59 €	ZF	1
590043	230 x 140 mm	590041	□	37,09 €	ZF	1

■ VGD 50



- Valvola diritta di intercettazione utenza, completa di scatola per installazione sottotraccia. Attacchi a tenuta conica con adattatore a tenuta piana incluso.
- Straight utility shut-off valve, complete with box for chased installation. Tapered seal connections with flat seal adapter included
- Vanne droite d'arrêt d'application, avec boîtier pour installation sous plancher. Raccords à joint d'étanchéité conique avec adaptateur à joint d'étanchéité plat inclus
- Durchgangsabsperventil für Geräte, einschließlich Unterputzgehäuse. Konisch dichtende Anschlüsse, einschließlich Adapter mit Flachdichtung.
- Válvula recta de interceptación para suministro, con caja para instalación de tendido subterráneo. Conexiones con junta de estanqueidad cónica con adaptador con junta de estanqueidad plana incluido

Code	Size	Color	Price	Class	Packaging
590037	3/4" x 3/4"	■	71,29 €	ZF	1

■ AVGD 50



- Placca di copertura per scatola ad incasso valvole di intercettazione utenza. Disponibile nelle varianti bianca e cromata.
- White cover plate for recessed utility shut-off valve box. Available in white and chrome
- Plaque blanche de couverture pour boîtier encastrable pour vannes d'arrêt d'application. Disponible en version blanche et chromée
- Abdeckplatte für UP-Gehäuse für Geräteabsperventile. Erhältlich in weißer und verchromter Ausführung
- Placa de cobertura para caja de empotrado de válvulas de interceptación para suministro. Disponible en las variantes blanca y cromada

Code	Size	Color	Price	Class	Packaging
590039	120 x 80 mm	□	13,48 €	ZF	1
590038	120 x 80 mm	■	23,12 €	ZF	1

■ ACGAS 00



- Bocchettone adattatore per connessione ai terminali dei collettori di intercettazione e valvole intercettazione utenza.
- Adapter nozzle for connection to the terminals of the interception manifolds and utility shut-off valves
- Embout adaptateur pour connexion aux terminaux des collecteurs d'arrêt et vannes d'arrêt d'application
- Adapterstützen zur Verbindung mit den Anschlüssen der Absperrverteiler und Geräteabsperventile
- Boquillas adaptadoras para la conexión a los terminales de los colectores de interceptación y válvulas de interceptación para suministro

Code	Size	Color	Price	Class	Packaging
590061	3/4" swivel x 1/2" M	■	9,39 €	ZF	1
590062	1" swivel x 3/4" M	■	16,39 €	ZF	1

**VSGD 00**


- **Valvola a sfera diritta per gas, nichelata con maniglia a leva plastificata gialla. Connessioni femmina/femmina. Conforme alla norma UNI EN 331.**
- *Straight gas ball valve, nickel-plated with yellow plastic lever handle. Female/female connections. Compliant with standard UNI EN 331*
- **Vanne à bille droite pour gaz, nickelée, avec poignée à levier plastifiée jaune. Connexions femelle/femelle. Conforme à la norme UNI EN 331**
- *Durchgangskugelhahn für Gas, vernickelt mit Hebelgriff mit gelber Kunststoffbeschichtung. Anschlüsse IG/IG. Gemäß UNI EN 331*
- **Válvula de esfera recta para gas, niquelada con manilla de palanca plastificada amarilla. Conexiones hembra/hembra. Conforme con la norma UNI EN 331**

Code	Size	Color	Price	Class	Packaging
503100	1/2" F x 1/2" F	■	11,00 €	ZF	12 / 96
503101	3/4" F x 3/4" F	■	15,39 €	ZF	10 / 80
503102	1" F x 1" F	■	26,25 €	ZF	8 / 32

**VSGD 05**


- **Valvola a sfera diritta per gas, nichelata con maniglia a leva plastificata gialla. Connessioni maschio/femmina. Conforme alla norma UNI EN 331.**
- *Straight gas ball valve, nickel-plated with yellow plastic lever handle. Male/female connections. Compliant with standard UNI EN 331*
- **Vanne à bille droite pour gaz, nickelée, avec poignée à levier plastifiée jaune. Connexions mâle/femelle. Conforme à la norme UNI EN 331**
- *Durchgangskugelhahn für Gas, vernickelt mit Hebelgriff mit gelber Kunststoffbeschichtung. Anschlüsse AG/IG. Gemäß UNI EN 331*
- **Válvula de esfera recta para gas, niquelada con manilla de palanca plastificada amarilla. Conexiones macho/hembra. Conforme con la norma UNI EN 331**

Code	Size	Color	Price	Class	Packaging
503103	1/2" M x 1/2" F	■	11,15 €	ZF	12 / 96
503104	3/4" M x 3/4" F	■	15,98 €	ZF	10 / 80
503105	1" M x 1" F	■	27,84 €	ZF	8 / 64

**VSGS 00**


- **Valvola a sfera ad angolo per gas, nichelata con farfalla in alluminio verniciata gialla. Connessioni femmina (F)/dado girevole (G). Conforme alla norma UNI EN 331**
- *Angle gas ball valve, nickel-plated with yellow painted aluminium butterfly valve. Female (F)/swivel nut(G) connections. Compliant with standard UNI EN 331*
- **Vanne à bille à angle pour gaz, nickelée avec papillon en aluminium peinte en jaune. Connexions femelle (F)/écrou pivotant (G). Conforme à la norme UNI EN 331**
- *Winkelkugelhahn für Gas, vernickelt mit gelb lackierten Knebelgriff aus Aluminium. Anschlüsse Innengewinde (F)/Überwurfmutter (G). Gemäß UNI EN 331*
- **Válvula de esfera angular para gas, niquelada con mariposa de aluminio pintada de amarillo. Conexiones hembra (F)/tuerca giratoria (G). Conforme con la norma UNI EN 331**

Code	Size	Color	Price	Class	Packaging
503106	1/2" F x 3/4" swivel	■	16,85 €	ZF	10 / 80
503107	3/4" F x 3/4" swivel	■	23,07 €	ZF	8 / 64
503108	3/4" F x 1" swivel	■	24,66 €	ZF	6 / 48
503109	1" F x 1" 1/4 swivel	■	38,79 €	ZF	4 / 32

**VSGS 05**


- **Valvola a sfera ad angolo per gas, nichelata con farfalla in alluminio verniciata gialla. Connessioni maschio (M)/dado girevole (G). Conforme alla norma UNI EN 331**
- *Angle gas ball valve, nickel-plated with yellow painted aluminium butterfly valve. Male (F)/swivel nut(G) connections. Compliant with standard UNI EN 331*
- **Vanne à bille à angle pour gaz, nickelée avec papillon en aluminium peinte en jaune. Connexions mâle (M)/écrou pivotant (G). Conforme à la norme UNI EN 331**
- *Winkelkugelhahn für Gas, vernickelt mit gelb lackierten Knebelgriff aus Aluminium. Anschlüsse Außengewinde (M)/Überwurfmutter (G). Gemäß UNI EN 331*
- **Válvula de esfera angular para gas, niquelada con mariposa de aluminio pintada de amarillo. Conexiones macho (M)/tuerca giratoria (G). Conforme con la norma UNI EN 331**

Code	Size	Color	Price	Class	Packaging
503110	1/2" M x 3/4" swivel	■	18,19 €	ZF	10 / 80
503111	3/4" M x 3/4" swivel	■	23,52 €	ZF	8 / 64
503112	3/4" M x 1" swivel	■	24,74 €	ZF	6 / 48
503113	1" M x 1" 1/4 swivel	■	38,79 €	ZF	4 / 32



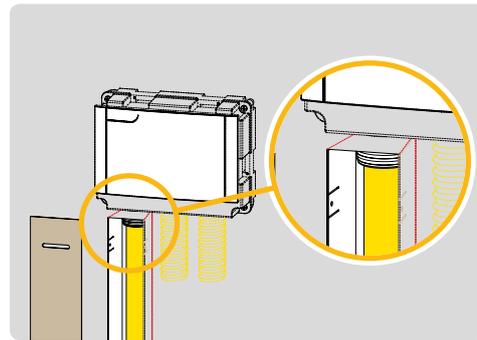
# ACCESSORIES FOR GAS SYSTEMS



RT 00 - RST 00



RG 00



CMG 00

IVAR solutions for domestic gas installations also include two devices relating to safety.

RST 00 is a curved connection with an integrated thermal safety device, usually coupled with an end fitting (RT 00) inserted in a chased box accessible for inspection. The device prevents gas leakage from the mains in the event of fire and limits the possible development of a fire, activating thermally between 95°C and 100°C (with operating resistance up to 925°C for one hour).

Field of use: -20°C; +60°C. MOP 5. HTB GT5 925°C for 60 min.

RT 00 is a terminal fitting placed inside a chased box accessible for inspection, which allows compliance with standard UNI/TS 11343:4.3.2.2; therefore, the fittings can be buried or chased provided that they are installed in a specific well accessible for inspection with a cover that must not be sealed. The junction points near the fittings inside the wells must be suitably protected against corrosion, in compliance with standard UNI EN 12954.

RG 00 is the methane gas leak detector, which promptly triggers an alarm in the presence of gas through both optical and acoustic signals, as well as interrupting the flow by acting on a special solenoid valve.

The range of solenoid valves is available in versions with max pressure up to 0.5 bar or up to 6 bar, in sizes DN 15-20-25 and in normally open or normally closed versions with manual reset. The latter are a positive safety device, namely they close the gas supply when power is missing (even in case of a black-out) and are CE approved according to EN 161. They also comply with the Gas Directive 2009/142/EC and the PED Directive 97/23/EC for 6 bar versions.

IVAR offers a range of compact-type gas filters, which are capable of blocking the flow of dust particles or debris carried by gas, thus preserving regulation and safety devices. The cartridge, made of a synthetic material, is washable and fully removable to allow adequate cleaning and inspection. Moreover, these filters are equipped with a suitable fitting for pressure measurement.

It should finally be noted that standard UNI 7129-1:2015 requires that pipes on the external perimeter walls cannot be chased and, for multilayer pipes, that they cannot even be in view. They can however be installed within appropriate metal ventilated channels, accessible for inspection. For this purpose, IVAR solutions include a channel accessible for inspection (CMG 00) for the recessed installation of external building pipes, complete with a cover with screws.

**CMG 00**


- **Canaletta metallica ispezionabile per incasso tubazioni esterne all'edificio**
- *Metal channel accessible for inspection for the recessed installation of external building pipes*
- **Goulotte métallique pouvant être inspectée pour l'encastrement des tuyaux externes au bâtiment**
- *Prüfbarer Metallkanal für Unterputzinstallation von Rohren an der Gebäudeaußenseite*
- **Canalización metálica inspeccionable para empotrado de tuberías externas al edificio**

Code	Size	Color	Price	Class	Packaging
590044	750 x 50 mm		29,39 €	ZF	1

**EVG 00**


- **Elettrovalvola di intercettazione flusso gas normalmente chiusa a riarmo manuale. Alimentazione 230 VAC. Connessioni femmina-femmina.**
- *Gas flow isolation solenoid valve normally closed with manual reset. 230 VAC power supply. Female-female connections.*
- **Électrovanne d'arrêt du flux de gaz normalement fermée à réenclenchement manuel. Alimentation 230 VAC. Connexions femelle-femelle.**
- *Magnet-Absperrventil für Gas, normal geschlossen mit manueller Rückstelleinrichtung. Versorgung 230 VAC. Anschlüsse mit Innengewinde.*
- **Electroválvula de cierre del flujo del gas normalmente cerrada de rearme manual. Alimentación 230 V CA. Conexiones hembra-hembra.**

Code	Size	Max inlet pressure	Price	Class	Packaging
590083	DN 15	0.50 bar	129,62 €	ZF	1
590064	DN 20	0.50 bar	134,88 €	ZF	1
590084	DN 25	0.50 bar	156,94 €	ZF	1
590085	DN 15	6 bar	131,80 €	ZF	1
590086	DN 20	6 bar	131,80 €	ZF	1
590087	DN 25	6 bar	159,10 €	ZF	1

**EVG 01**


- **Elettrovalvola di intercettazione flusso gas normalmente aperta a riarmo manuale. Alimentazione 230 VAC. Connessioni femmina-femmina.**
- *Gas flow isolation solenoid valve normally open with manual reset. 230 VAC power supply. Female-female connections.*
- **Électrovanne d'arrêt du flux de gaz normalement ouverte à réenclenchement manuel. Alimentation 230 VAC. Connexions femelle-femelle.**
- *Magnet-Absperrventil für Gas, normal geöffnet mit manueller Rückstelleinrichtung. Versorgung 230 VAC. Anschlüsse mit Innengewinde.*
- **Electroválvula de cierre del flujo de gas normalmente abierta de rearme manual. Alimentación 230 V CA. Conexiones hembra-hembra.**

Code	Size	Max inlet pressure	Price	Class	Packaging
590088	DN 15	0.50 bar	75,00 €	ZF	1
590089	DN 20	0.50 bar	75,00 €	ZF	1
590090	DN 25	0.50 bar	97,55 €	ZF	1
590091	DN 15	6 bar	95,82 €	ZF	1
590092	DN 20	6 bar	95,82 €	ZF	1
590093	DN 25	6 bar	118,59 €	ZF	1

**RG 00**


- **Rilevatore gas metano con segnalazione ottica e acustica d'allarme. Uscita con contatto in scambio per elettrovalvola. Conforme normativa EN 50194-1.**
- *Methane gas detector with optical and acoustic alarm. Outlet with changeover contact for solenoid valve. Compliant with standard EN 50194-1*
- **Détecteur de gaz méthane avec signalisation visuelle et sonore. Sortie avec contact de commutation pour électrovanne. Conforme à la norme EN 50194-1**
- *Methan-Gasdetektor mit optischem und akustischem Alarm. Ausgang mit Wechselkontakt für Magnetventil. Entspricht der Norm EN 50194-1*
- **Detector de gas metano con señalización óptica y acústica de alarma. Salida con contacto en intercambio para electroválvula. Conforme con la normativa EN 50194-1**

Code	Color	Price	Class	Packaging
590077		158,95 €	ZF	2 / 16



### RST 00



- **Raccordo a 90° con dispositivo ad attivazione termica di sicurezza per tubo flessibile per apparecchiature gas**
- *90° fitting with thermal activation safety device for gas appliance hoses*
- **Raccord à 90° avec dispositif de sécurité à déclenchement thermique pour tuyau flexible pour les appareils à gaz**
- *90°-Winkelstück mit thermischer Sicherheitseinrichtung für flexible Anschlussleitungen von Gasgeräten*
- **Racor a 90° con dispositivo de activación térmica de seguridad para tubo flexible para aparatos de gas**

Code	Size (D1 x D2)	Color	Price	Class	Packaging
590045	1/2" M x 1/2" M	■	30,84 €	ZF	1

### RT 00



- **Scatola da incasso con raccordo terminale in uscita completa di placca bianca di copertura**
- *Recessed box with terminal fitting on outlet, complete with white cover plate*
- **Boîtier encastrable avec raccord terminal de sortie et plaque blanche de couverture**
- *UP-Gehäuse mit Anschlussstück für Abgang einschließlich weißer Abdeckplatte*
- **Caja de empotrado con racor terminal en la salida, con placa blanca de cobertura**

Code	Size (D1 x D2)	Color	Price	Class	Packaging
590036	3/4" TC x 1/2" F	■ / ■	45,77 €	ZF	1

### FMC



- **Filtro compact per gas con presa di pressione.**
- *Compact filter for gas with pressure socket.*
- **Filtre compact pour gaz avec prise de pression.**
- *Filter kompakt für Gas mit Druckanschluss.*
- **Filtro compacto para gas con toma de presión.**

Code	Size	Max inlet pressure	Filtration capacity	Price	Class	Packaging
FMC025C	DN 15	2 bar	50 µm	22,06 €	ZF	1 / 30
FMC035C	DN 20	2 bar	50 µm	24,64 €	ZF	1 / 30
FMC045C	DN 25	2 bar	50 µm	24,64 €	ZF	1 / 30

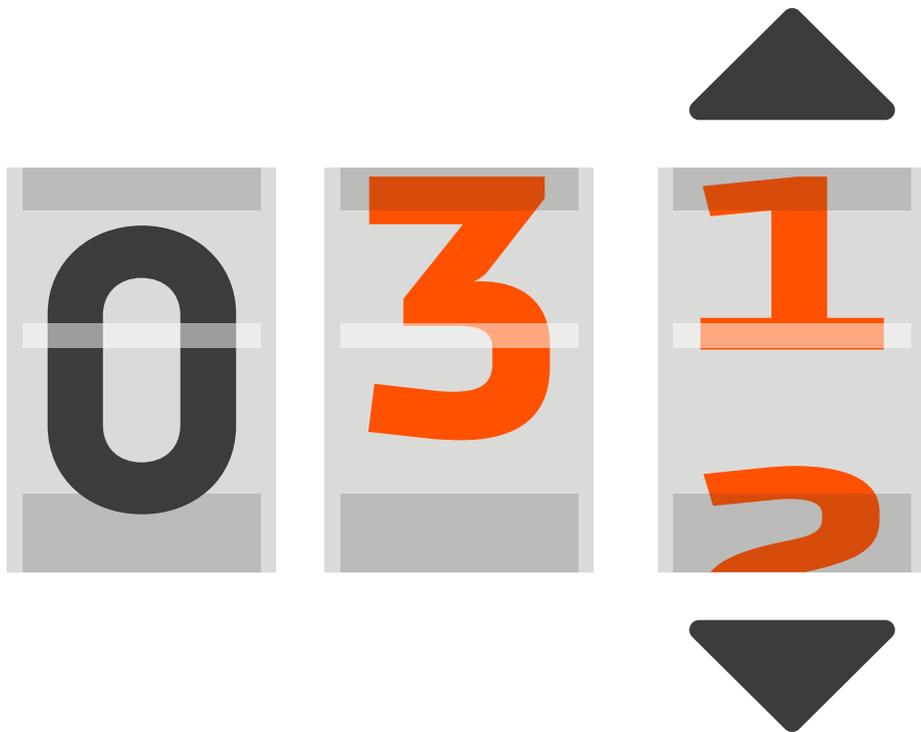
### VST 00



- **Valvola ad angolo con dispositivo di sicurezza termica**
- *Angle valve with thermal safety device*
- **Vanne à angle avec dispositif de sécurité thermique**
- *Eckventil mit thermischer Absperreinheit*
- **Válvula angular con dispositivo de seguridad térmica**

Code	Size	Color	Price	Class	Packaging
590063	1/2" M x 1/2" M	■	36,18 €	ZF	1

# METERING SYSTEMS



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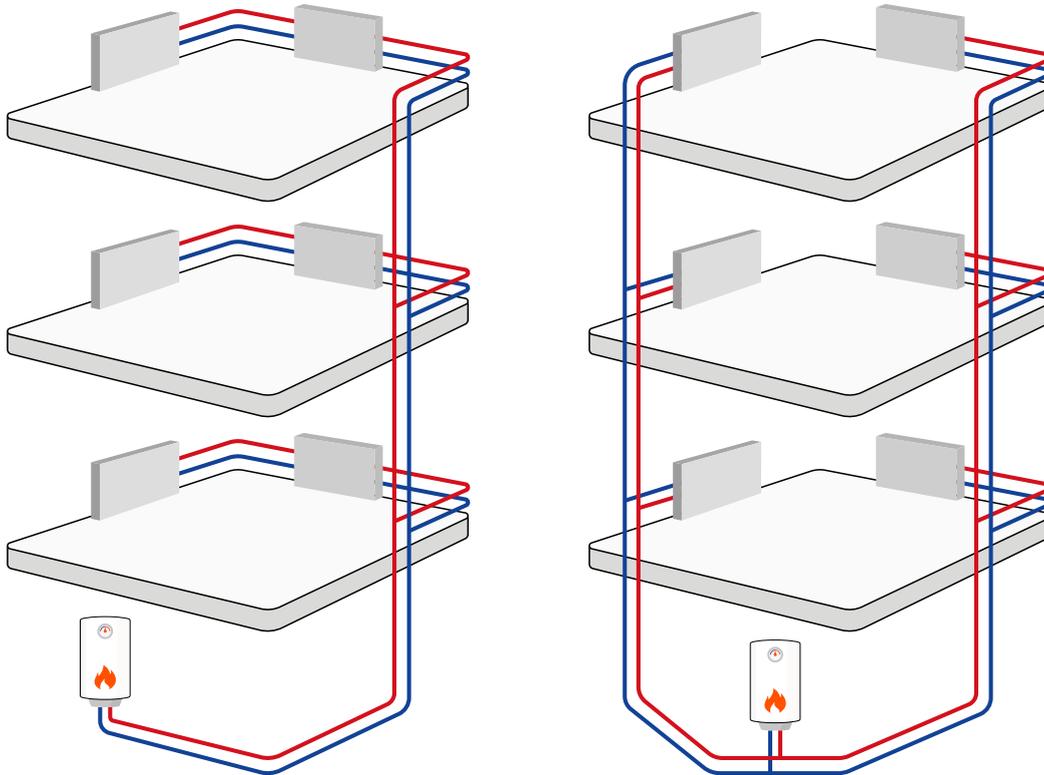


  
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Profundizaciones técnicas

In apartment buildings characterised by a single heat generator, current energy-saving standards make it mandatory to apply thermoregulation and heat metering systems which give the individual users management autonomy, and at the same time to correctly allocate heat costs among residents.

For horizontal loop distribution systems (a), IVAR proposes user modules for direct heat metering by means of meters. User modules are units developed for direct metering of heat and DHW which include a wide range of functions to control the heating system: a zone valve, a filter, shut-off and balancing valves. Both solutions with three-way zone valve for fixed flow rate systems and two-way zone valves for variable flow rate systems are available. For satellite modules please look the at the dedicated section.

On the other hand, the offer for vertical distribution systems (b) is based on indirect metering devices with heat cost allocators.



	<p><b>Moduli a 3 vie per la contabilizzazione diretta EQUIMETER e MC</b>  <i>3-way modules for direct metering EQUIMETER and MC</i></p> <p><b>Modules à 3 voies pour la comptabilisation directe EQUIMETER et MC</b>  <i>3-Wege-Module zur Direkten Messung EQUIMETER und MC</i></p> <p><b>Módulos de 3 vías para la contabilización directa EQUIMETER y MC</b></p>	<b>546</b>
	<p><b>Moduli a 2 vie per la contabilizzazione diretta EQUICOMPACT®, EQUIDYNAMIC e MC4</b>  <i>2-way modules for direct metering EQUICOMPACT®, EQUIDYNAMIC and MC4</i></p> <p><b>Modules à 2 voies pour la comptabilisation directe EQUICOMPACT®, EQUIDYNAMIC et MC4</b>  <i>2-Wege-Module zur Direkten Messung EQUICOMPACT®, EQUIDYNAMIC und MC4</i></p> <p><b>Módulos de 2 vías para la contabilización directa EQUICOMPACT®, EQUIDYNAMIC y MC4</b></p>	<b>558</b>
	<p><b>Moduli per la contabilizzazione diretta dell'acqua sanitaria</b>  <i>Modules for domestic water direct metering</i></p> <p><b>Modules pour la comptabilisation directe de l'eau sanitaire</b>  <i>Module zur Direkten Messung von Trinkwasser</i></p> <p><b>Módulos para la contabilización directa del agua sanitaria</b></p>	<b>572</b>
	<p><b>Moduli di contabilizzazione diretta per applicazioni speciali</b>  <i>Direct metering modules for special applications</i></p> <p><b>Modules de comptabilisation directe pour des applications spéciales</b>  <i>Module zur Direkten Messung für Spezielle Anwendungen</i></p> <p><b>Módulos de contabilización directa para aplicaciones especiales</b></p>	<b>574</b>
	<p><b>Accessori per moduli di contabilizzazione diretta</b>  <i>Accessories for direct metering modules</i></p> <p><b>Accessoires pour modules de comptabilisation directe</b>  <i>Zubehör für Module zur Direkten Messung</i></p> <p><b>Accesorios para módulos de contabilización directa</b></p>	<b>584</b>
	<p><b>Contatori per la contabilizzazione diretta</b>  <i>Meters for direct metering</i></p> <p><b>Compteurs pour la comptabilisation directe</b>  <i>Zähler für Direkte Messung</i></p> <p><b>Contadores para la contabilización directa</b></p>	<b>586</b>
	<p><b>Sistema CALOR•MET per la contabilizzazione indiretta del calore</b>  <i>CALOR•MET system for heat indirect metering</i></p> <p><b>Système CALOR•MET pour la comptabilisation indirecte de la chaleur</b>  <i>System CALOR•MET zur Indirekten Messung von Wärme</i></p> <p><b>Sistema CALOR•MET para la contabilización indirecta de calor</b></p>	<b>596</b>
	<p><b>Dispositivi per centralizzazione dati</b>  <i>Devices for data centralisation</i></p> <p><b>Dispositifs pour la centralisation des données</b>  <i>Vorrichtungen zur Datenzentralisierung</i></p> <p><b>Dispositivos para centralizar los datos</b></p>	<b>604</b>

# 3-WAY MODULES

## EQUIMETER

EQUIMETER is a compact three-way metering module which offers the option to regulate both supply and by-pass section by exploiting the flow reading of the heat meter, simplifying hydraulic balancing operations. Available in two power/flow rate variants, it houses a 1.5 m<sup>3</sup>/h or 2.5 m<sup>3</sup>/h heat meter, while still keeping the main G 3/4" flat seal connections to the upright columns and to the utilities. DHW lines are customisable and allow up to three displacement meters to be installed, or up to two by adding a thermostatic mixing valve. EQUIMETER are supplied on a frame or in a box, pre-assembled or in a jig with separate components. All the electronic components are supplied separately, chosen depending on the individual installations thanks to a complete range of meters for direct reading on individual devices or concentration of data at a single reading point by means of M-BUS or RADIO protocol.

EQUIMETER power (\*) with Kv=2.25: approximately 14 kW

EQUIMETER power (\*) with Kv=2.75: approximately 17 kW

(\*) Thermal gradient = 10 °C; differential pressure at ends of module = 300 mbar

## MC

MC is a classical pre-assembled module intended to meet high flow rate requirements thanks to the low hydraulic resistance of the circuit. MC is available in two power/flow rate variants, with different corresponding connections to the upright columns and to the utilities: MC1 has G 1" connections and can house heat meters from 2.5 m<sup>3</sup>/h. MC2 is equipped with G 1" 1/4 connections and can house larger meters with G 1" 1/4 connections and a nominal flow rate of 3.5 or 6.0 m<sup>3</sup>/h. In this case again the DHW lines are customisable and allow up to three displacement meters to be installed, or up to two with thermostatic mixing valve. Heat module and DHW module are on different frames and can be built according to requirements. All the electronic components are supplied separately, chosen depending on the individual installations thanks to a complete range of meters for direct reading on individual devices or concentration of data at a single reading point by means of M-BUS or RADIO protocol.

MC power (\*) with Kv=3.5: approximately 22 kW

MC power (\*) with Kv=7.0(\*\*): approximately 35 kW

(\*) Thermal gradient = 10 °C; differential pressure at ends of module = 300 mbar

(\*\*) Kv=7.0 is supplied with ultrasound meter application with nominal flow rate of 6.0 m<sup>3</sup>/h

## PLUS (EQUIMETER)

- **Freely configurable with volumetric meters for DHW, DCW and dual water**
- **Simplified and patented procedure for balancing utilities**
- **Connections to utilities with 3/4" flat-seal fittings for all versions**
- **Pre-assembled or in a template with separate components**

# EQUIMETER

## DOMESTIC WATER LINES

Customizable with no, 1, 2 or 3 meters

Available with 2 domestic water lines and anti-scald thermostatic mixer

## CONTROL BLOCK

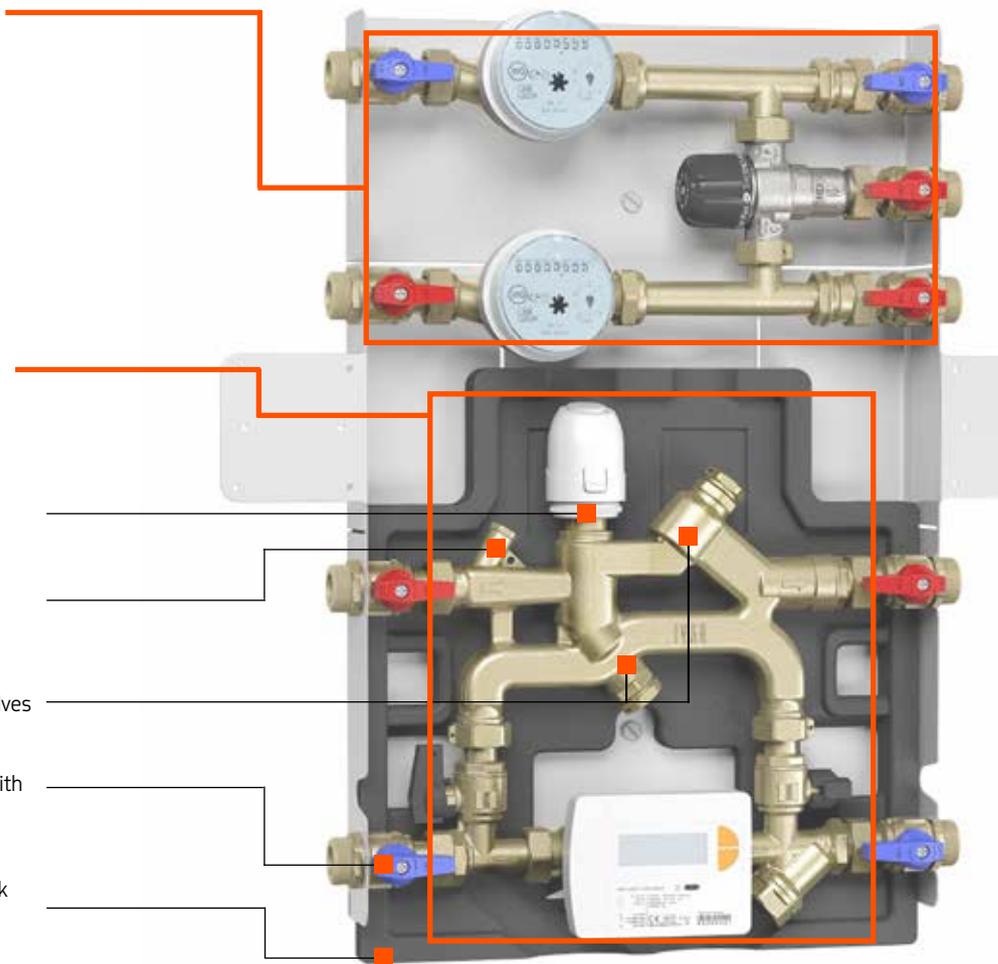
3-Way zone valve with piston

Well for delivery heat meter probe

Inlet and bypass balancing valves

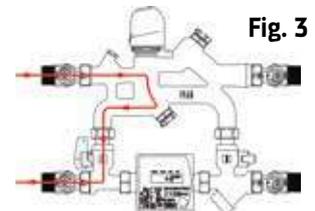
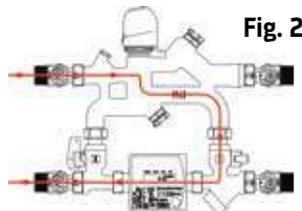
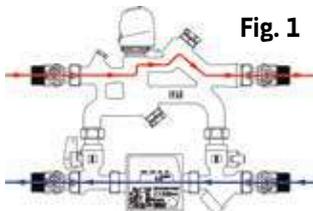
Components can be cut off with ball valves

Thermally insulated heat block



## PATENTED SYSTEM

“In-line” balancing with instantaneous flow rate reading on the meter **both in delivery** (fig. 1) **and in bypass** (balancing and operation, fig. 2 and 3).



## KEY FOR METERING UNITS

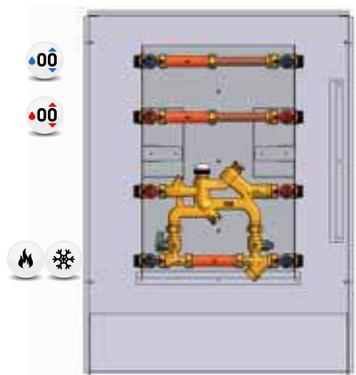
Heating units.

Domestic cold water units.

Domestic hot water units.

Thermostatic mixer.

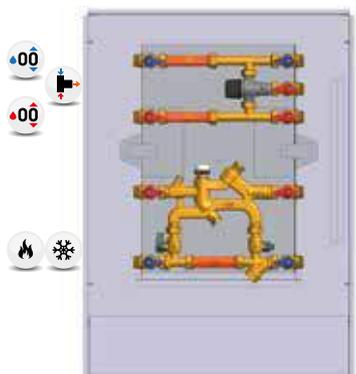
**EQM1 (Kv 2,25) - EQM2 (Kv 2,75)**



- Modulo di contabilizzazione Equimeter per impianti di riscaldamento e raffrescamento con unità per calore, acqua calda sanitaria e acqua fredda sanitaria
- Equimeter metering module for heating and cooling systems with units for heat, domestic hot water and domestic cold water
- Module de comptabilisation Equimeter pour les systèmes de chauffage et de refroidissement avec unités pour chaleur, eau chaude sanitaire et eau froide sanitaire
- Messungsmodul Equimeter für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser und Trinkkaltwasser
- Módulo de contabilización Equimeter para sistemas de calefacción y refrigeración con unidades para calor, agua caliente sanitaria y agua fría sanitaria

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506370	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200085	550 mm	457,49 €	UA	1
506370C	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200085 (Included)	550 mm	644,09 €	UA	1
506371	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200085	550 mm	484,80 €	UA	1
506371C	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200085 (Included)	550 mm	660,58 €	UA	1

**EQM11 (Kv 2,25) - EQM21 (Kv 2,75)**



- Modulo di contabilizzazione Equimeter per impianti di riscaldamento e raffrescamento con unità per calore, acqua calda sanitaria, acqua fredda sanitaria e miscelatore termostatico
- Equimeter metering module for heating and cooling systems with units for heat, domestic hot water, domestic cold water and thermostatic mixer
- Module de comptabilisation Equimeter pour les systèmes de chauffage et de refroidissement avec unités pour chaleur, eau chaude sanitaire, eau froide sanitaire et limiteur de température
- Messungsmodul Equimeter für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser, Trinkkaltwasser und thermostatischem Mischer
- Módulo de contabilización Equimeter para sistemas de calefacción y refrigeración con unidades para calor, agua caliente sanitaria, agua fría sanitaria y mezclador termostático

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506372	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200085	550 mm	529,98 €	UA	1
506372C	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200085 (Included)	550 mm	716,59 €	UA	1
506373	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200085	550 mm	540,20 €	UA	1
506373C	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200085 (Included)	550 mm	726,82 €	UA	1



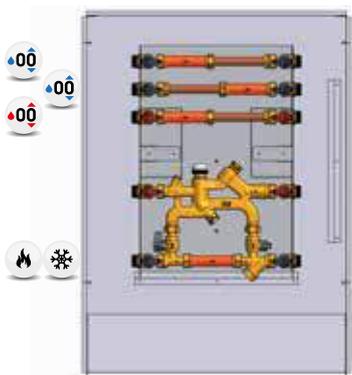
• >> p. 585



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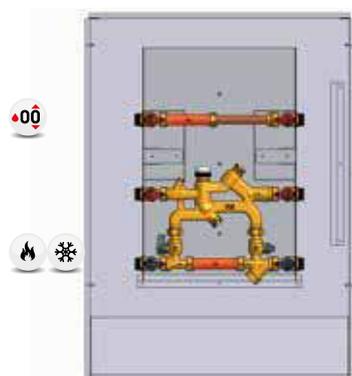


• >>p. 590

**EQM12 (Kv 2,25) - EQM22 (Kv 2,75)**


- Modulo di contabilizzazione Equimeter per impianti di riscaldamento e raffrescamento con unità per calore, acqua calda sanitaria, acqua fredda sanitaria e acqua fredda duale
- Equimeter metering module for heating and cooling systems with units for heat, domestic hot water, domestic cold water and dual cold water
- Module de comptabilisation Equimeter pour les systèmes de chauffage et de refroidissement avec unités pour chaleur, eau chaude sanitaire, eau froide sanitaire et eau froide duale
- Messungsmodul Equimeter für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser, Trinkkaltwasser und Dualkaltwasser
- Módulo de contabilización Equimeter para sistemas de calefacción y refrigeración con unidades para calor, agua caliente sanitaria, agua fría sanitaria y agua fría dual

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506374	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200085	550 mm	496,60 €	UA	1
506374C	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200085 (Included)	550 mm	683,21 €	UA	1
506375	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200085	550 mm	513,08 €	UA	1
506375C	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200085 (Included)	550 mm	699,70 €	UA	1

**EQM13 (Kv 2,25) - EQM23 (Kv 2,75)**


- Modulo di contabilizzazione Equimeter per impianti di riscaldamento e raffrescamento con unità per calore e acqua calda sanitaria
- Equimeter metering module for heating and cooling systems with units for heat and domestic hot water
- Module de comptabilisation Equimeter pour les systèmes de chauffage et de refroidissement avec unités pour chaleur et eau chaude sanitaire
- Messungsmodul Equimeter für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkwarmwasser
- Módulo de contabilización Equimeter para sistemas de calefacción y refrigeración con unidades para calor y agua caliente sanitaria

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506376	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	200085	550 mm	411,14 €	UA	1
506376C	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	200085 (Included)	550 mm	597,76 €	UA	1
506377	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	200085	550 mm	427,63 €	UA	1
506377C	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	200085 (Included)	550 mm	614,24 €	UA	1



• Radio WALK-BY >> p. 605

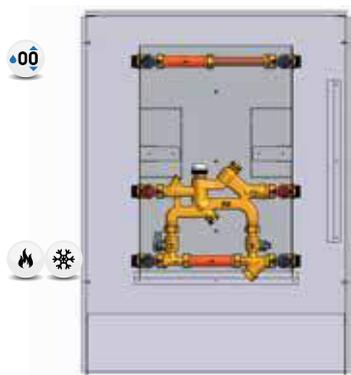


• Radio AMR >> p. 608



• M-BUS >> p. 611

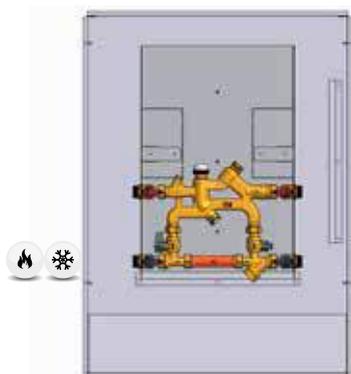
**EQM14 (Kv 2,25) - EQM24 (Kv 2,75)**



- Modulo di contabilizzazione Equimeter per impianti di riscaldamento e raffrescamento con unità per calore e acqua fredda sanitaria
- Equimeter metering module for heating and cooling systems with units for heat and domestic cold water
- Module de comptabilisation pour les systèmes de chauffage et de refroidissement Equimeter avec unités pour chaleur et eau froide sanitaire
- Messungsmodul Equimeter für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkkaltwasser
- Módulo de contabilización Equimeter para sistemas de calefacción y refrigeración con unidades para calor y agua fría sanitaria

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506378	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	200085	550 mm	409,50 €	UA	1
506378C	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	200085 (Included)	550 mm	596,11 €	UA	1
506379	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	200085	550 mm	425,97 €	UA	1
506379C	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	200085 (Included)	550 mm	612,60 €	UA	1

**EQM15 (Kv 2,25) - EQM25 (Kv 2,75)**



- Modulo di contabilizzazione Equimeter per impianti di riscaldamento e raffrescamento solo con unità per il calore
- Equimeter metering module for heating and cooling systems with unit for heat only
- Module de comptabilisation Equimeter pour les systèmes de chauffage et de refroidissement uniquement avec unité pour la chaleur
- Messungsmodul Equimeter für Heiz- und Kühlsysteme nur mit Einheit für Wärme
- Módulo de contabilización Equimeter para sistemas de calefacción y refrigeración sólo con unidad para el calor

Code	Heat unit	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506380	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	200085	550 mm	351,61 €	UA	1
506380C	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	200085 (Included)	550 mm	538,21 €	UA	1
506381	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	200085	550 mm	383,25 €	UA	1
506381C	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	200085 (Included)	550 mm	569,86 €	UA	1



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**AC 110**


- Kit sdoppiatore lato uscita per moduli Equimeter.
- Splitter fittings kit for Equimeter modules outtakes.
- Kit de raccords dédoubleurs pour les sorties des modules Equimeter.
- Vertdoppler-Anschlüsse-Bausatz für die Ausgängen der Module Equimeter.
- Kit de accesorios divisores para las salidas de los módulos Equimeter.

Code	Size	Price	Class	Packaging
509131	3/4"	110,75 €	UA	1

**TE 3040 IV**


- Testa elettrotermica normalmente chiusa (2 fili) con logo IVAR. Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 40$  mm.
- Electrothermal head normally closed (2 wires) with IVAR logo. Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 40$  mm.
- Tête électrothermique normalement fermée (2 fils) avec logo IVAR. Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 40$  mm.
- Elektrothermischer Stellantriebe stromlos-zu (2 Kabel) mi IVAR-Logo. Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 40$  mm.
- Cabeza electrotérmica normalmente cerrada (de 2 hilos) con logo IVAR. Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 40$  mm.

Code	Size	Price	Class	Packaging
501508E	M30 x 1,5 ; ON / OFF (230 V AC)	22,92 €	AC	100

**TE 3040**


- Testa elettrotermica normalmente chiusa (2 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 50$  mm (no EASY-RADIANT).
- Electrothermal head normally closed (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 50$  mm (no EASY-RADIANT).
- Tête électrothermique normalement fermée (2 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 50$  mm (non EASY-RADIANT).
- Elektrothermischer Stellantriebe stromlos-zu (2 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 50$  mm (keine EASY-RADIANT).
- Cabeza electrotérmica normalmente cerrada (de 2 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 50$  mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
501508	M30 x 1,5 ; ON / OFF (230 V AC)	28,30 €	AC	100
501524	M30 x 1,5 ; ON / OFF (24 V AC/DC)	28,30 €	AC	100

**TE 3050 MC**


- Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 40$  mm.
- Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 40$  mm.
- Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 40$  mm.
- Elektrothermischer Stellantriebe stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 40$  mm.
- Cabeza electrotérmica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 40$  mm.

Code	Size	Price	Class	Packaging
500808MC	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100

**TE 3050 M**


- Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse  $\geq 50$  mm (no EASY-RADIANT).
- Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance  $\geq 50$  mm (no EASY-RADIANT).
- Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe  $\geq 50$  mm (non EASY-RADIANT).
- Elektrothermischer Stellantriebe stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand  $\geq 50$  mm (keine EASY-RADIANT).
- Cabeza electrotérmica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostatzables IVAR y los colectores con distancia entre centros  $\geq 50$  mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
500808M	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100
500028M	M30 x 1,5 ; ON / OFF (24 V AC/DC)	33,58 €	AC	100



For the supply of modules in separate components (template + functional blocks) please refer to the following tables.

### EQM1/2 Template



- Dima per modulo di contabilizzazione Equimeter con unità per calore, acqua calda sanitaria e acqua fredda sanitaria.
- Template for Equimeter metering module with units for heat, domestic hot water and domestic cold water.
- Gabarit pour module de comptabilisation Equimeter avec unités pour chaleur, eau chaude sanitaire et eau froide sanitaire.
- Schablone für Messungsmodul Equimeter mit Einheiten für Wärme, Trinkwarmwasser und Trinkkaltwasser.
- Plantilla para módulo de contabilización Equimeter con unidades para calor, agua caliente sanitaria y agua fría sanitaria.

Code	Suitable Cabinet	Price	Class	Packaging
509161	200085	252,46 €	UA	1
509161C	200085 (Included)	442,82 €	UA	1

### EQM11/21 Template



- Dima per modulo di contabilizzazione Equimeter con unità per calore, acqua calda sanitaria, acqua fredda sanitaria e miscelatore termostatico.
- Template for Equimeter metering module with units for heat, domestic hot water, domestic cold water and thermostatic mixer.
- Gabarit pour module de comptabilisation Equimeter avec unités pour chaleur, eau chaude sanitaire, eau froide sanitaire et limiteur de température.
- Schablone für Messungsmodul Equimeter mit Einheiten für Wärme, Trinkwarmwasser, Trinkkaltwasser und thermostatischem Mischer.
- Plantilla para módulo de contabilización Equimeter con unidades para calor, agua caliente sanitaria, agua fría sanitaria y mezclador termostático.

Code	Suitable Cabinet	Price	Class	Packaging
509162	200085	318,00 €	UA	1
509162C	200085 (Included)	512,68 €	UA	1

### EQM12/22 Template



- Dima per modulo di contabilizzazione Equimeter con unità per calore, acqua calda sanitaria, acqua fredda sanitaria e acqua fredda duale.
- Template for Equimeter metering module with units for heat, domestic hot water, domestic cold water and dual cold water.
- Gabarit pour module de comptabilisation Equimeter avec unités pour chaleur, eau chaude sanitaire, eau froide sanitaire et eau froide duale.
- Schablone für Messungsmodul Equimeter mit Einheiten für Wärme, Trinkwarmwasser, Trinkkaltwasser und Dualkaltwasser.
- Plantilla para módulo de contabilización Equimeter con unidades para calor, agua caliente sanitaria, agua fría sanitaria y agua fría dual.

Code	Suitable Cabinet	Price	Class	Packaging
509163	200085	290,73 €	UA	1
509163C	200085 (Included)	485,39 €	UA	1

### EQM13/23 Template



- Dima per modulo di contabilizzazione Equimeter con unità per calore e acqua calda sanitaria.
- Template for Equimeter metering module with units for heat and domestic hot water.
- Gabarit pour module de comptabilisation Equimeter avec unités pour chaleur et eau chaude sanitaire.
- Schablone für Messungsmodul Equimeter mit Einheiten für Wärme und Trinkwarmwasser.
- Plantilla para módulo de contabilización Equimeter con unidades para calor y agua caliente sanitaria.

Code	Suitable Cabinet	Price	Class	Packaging
509164	200085	209,57 €	UA	1
509164C	200085 (Included)	399,93 €	UA	1



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**EQM14/24 Template**


- Dima per modulo di contabilizzazione Equimeter con unità per calore e acqua fredda sanitaria.
- Template for Equimeter metering module with units for heat and domestic cold water.
- Gabarit pour module de comptabilisation Equimeter avec unités pour chaleur et eau froide sanitaire.
- Schablone für Messungsmodul Equimeter mit Einheiten für Wärme und Trinkkaltwasser.
- Plantilla para módulo de contabilización Equimeter con unidades para calor y agua fría sanitaria.

Code	Suitable Cabinet	Price	Class	Packaging
509165	200085	207,92 €	UA	1
509165C	200085 (Included)	398,29 €	UA	1

**EQM15/25 Template**


- Dima per modulo di contabilizzazione Equimeter solo con unità per il calore.
- Template for Equimeter metering module with unit for heat only.
- Gabarit pour module de comptabilisation Equimeter uniquement avec unité pour la chaleur.
- Schablone für Messungsmodul Equimeter nur mit Einheit für Wärme.
- Plantilla para módulo de contabilización Equimeter sólo con unidad para el calor.

Code	Suitable Cabinet	Price	Class	Packaging
509166	200085	165,20 €	UA	1
509166C	200085 (Included)	355,56 €	UA	1

**EQM1 Complementary module**


- Modulo complementare per EQUIMETER (Kv 2,25).
- Complementary module for EQUIMETER (Kv 2,25).
- Module complémentaire pour EQUIMETER (Kv 2,25).
- Ergänzungsmodul für EQUIMETER (Kv 2,25).
- Módulo complementario para EQUIMETER (Kv 2,25).

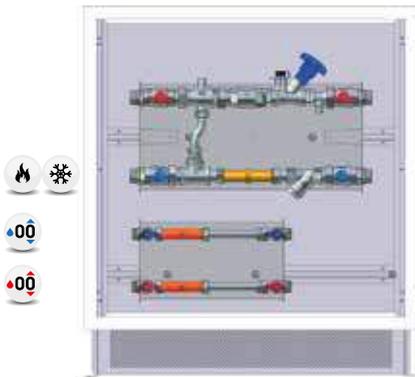
Code	Heat unit	Price	Class	Packaging
KSB0028	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	246,52 €	UA	1

**EQM2 Complementary module**


- Modulo complementare per EQUIMETER (Kv 2,75).
- Complementary module for EQUIMETER (Kv 2,75).
- Module complémentaire pour EQUIMETER (Kv 2,75).
- Ergänzungsmodul für EQUIMETER (Kv 2,75).
- Módulo complementario para EQUIMETER (Kv 2,75).

Code	Heat unit	Price	Class	Packaging
KSB0033	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	249,05 €	UA	1

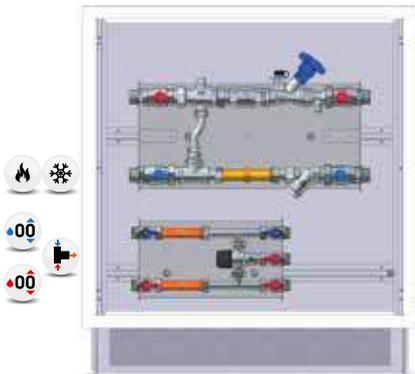
■ MC1 (Kv 3,50) - MC2 (Kv 7,00)



- Modulo di contabilizzazione MC1/MC2 per impianti di riscaldamento e raffreddamento con unità per calore, acqua calda sanitaria e acqua fredda sanitaria
- MC1/MC2 metering module for heating and cooling systems with units for heat, domestic hot water and domestic cold water
- Module de comptabilisation MC1/MC2 pour les systèmes de chauffage et de refroidissement avec unités pour chaleur, eau chaude sanitaire et eau froide sanitaire
- Messungsmodul MC1/MC2 für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser und Trinkkaltwasser
- Módulo de contabilización MC1/MC2 para sistemas de calefacción y refrigeración con unidades para calor, agua caliente sanitaria y agua fría sanitaria

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506500	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200090	700 mm	678,05 €	UA	1
506500C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200090 (Included)	700 mm	903,71 €	UA	1
506501	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD (Q3 4 m³/h) - G 1"	200090	700 mm	752,17 €	UA	1
506501C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD (Q3 4 m³/h) - G 1"	200090 (Included)	700 mm	987,79 €	UA	1
506510	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200190	900 mm	709,93 €	UA	1
506510C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200190 (Included)	900 mm	1.005,39 €	UA	1
506511	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD (Q3 4 m³/h) - G 1"	200190	900 mm	784,03 €	UA	1
506511C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD (Q3 4 m³/h) - G 1"	200190 (Included)	900 mm	1.089,46 €	UA	1

■ MC11 (Kv 3,50) - MC21 (Kv 7,00)



- Modulo di contabilizzazione MC1/MC2 per impianti di riscaldamento e raffreddamento con unità per calore, acqua calda sanitaria, acqua fredda sanitaria e miscelatore termostatico
- MC1/MC2 metering module for heating and cooling systems with units for heat, domestic hot water, domestic cold water and thermostatic mixer
- Module de comptabilisation MC1/MC2 pour les systèmes de chauffage et de refroidissement avec unités pour chaleur, eau chaude sanitaire, eau froide sanitaire et limiteur de température
- Messungsmodul MC1/MC2 für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser, Trinkkaltwasser und thermostatischem Mischer
- Módulo de contabilización MC1/MC2 para sistemas de calefacción y refrigeración con unidades para calor, agua caliente sanitaria, agua fría sanitaria y mezclador termostático

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506502	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200090	700 mm	736,68 €	UA	1
506502C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200090 (Included)	700 mm	972,31 €	UA	1
506512	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200190	900 mm	768,56 €	UA	1
506512C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200190 (Included)	900 mm	1.073,98 €	UA	1



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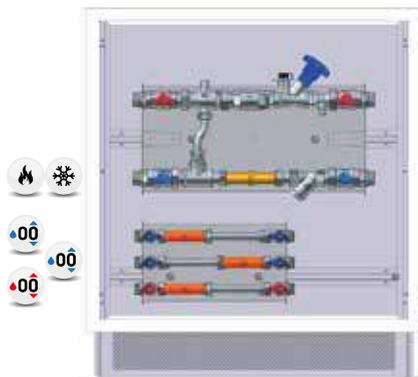


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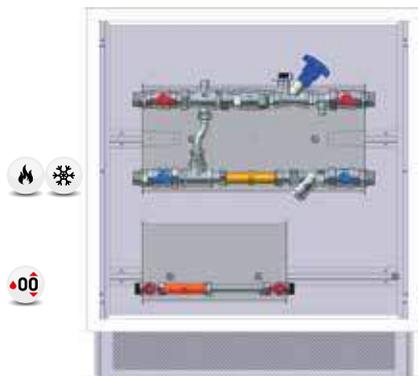
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- Su richiesta sono disponibili moduli MC DN 40 e DN 50.
- DN 40 and DN 50 MC modules are available on request.
- Modules MC DN 40 et DN 50 sont disponibles sur demande.
- MC-Module DN 40 und DN 50 sind Auf Anfrage erhältlich.
- Módulos MC DN 40 y DN 50 están disponibles bajo petición.

**MC12 (Kv 3,50) - MC22 (Kv 7,00)**


- Modulo di contabilizzazione MC1/MC2 per impianti di riscaldamento e raffrescamento con unità per calore, acqua calda sanitaria, acqua fredda sanitaria e acqua fredda duale
- MC1/MC2 metering module for heating and cooling systems with units for heat, domestic hot water, domestic cold water and dual cold water
- Module de comptabilisation MC1/MC2 pour les systèmes de chauffage et de refroidissement avec unités pour chaleur, eau chaude sanitaire, eau froide sanitaire et eau froide duale
- Messungsmodul MC1/MC2 für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser, Trinkkaltwasser und Dualkaltwasser
- Módulo de contabilización MC1/MC2 para sistemas de calefacción y refrigeración con unidades para calor, agua caliente sanitaria, agua fría sanitaria y agua fría dual

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506503	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200090	700 mm	712,91 €	UA	1
506503C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200090 (Included)	700 mm	948,53 €	UA	1
506504	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD+DUAL (Q3 4 m³/h) - G 1"	200090	700 mm	833,10 €	UA	1
506504C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT+COLD+DUAL (Q3 4 m³/h) - G 1"	200090 (Included)	700 mm	1.068,72 €	UA	1
506513	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200190	900 mm	744,78 €	UA	1
506513C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200190 (Included)	900 mm	1.050,19 €	UA	1
506514	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD+DUAL (Q3 4 m³/h) - G 1"	200190	900 mm	864,97 €	UA	1
506514C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT+COLD+DUAL (Q3 4 m³/h) - G 1"	200190 (Included)	900 mm	1.170,40 €	UA	1

**MC13 (Kv 3,50) - MC23 (Kv 7,00)**


- Modulo di contabilizzazione MC1/MC2 per impianti di riscaldamento e raffrescamento con unità per calore e acqua calda sanitaria
- MC1/MC2 metering module for heating and cooling systems with units for heat and domestic hot water
- Module de comptabilisation MC1/MC2 pour les systèmes de chauffage et de refroidissement avec unités pour chaleur et eau chaude sanitaire
- Messungsmodul MC1/MC2 für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkwarmwasser
- Módulo de contabilización MC1/MC2 para sistemas de calefacción y refrigeración con unidades para calor y agua caliente sanitaria

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506505	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT (Q3 2,5 m³/h) - G 3/4"	200090	700 mm	624,12 €	UA	1
506505C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT (Q3 2,5 m³/h) - G 3/4"	200090 (Included)	700 mm	859,73 €	UA	1
506506	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT (Q3 4 m³/h) - G 1"	200090	700 mm	664,55 €	UA	1
506506C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	HOT (Q3 4 m³/h) - G 1"	200090 (Included)	700 mm	900,18 €	UA	1
506515	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT (Q3 2,5 m³/h) - G 3/4"	200190	900 mm	655,98 €	UA	1
506515C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT (Q3 2,5 m³/h) - G 3/4"	200190 (Included)	900 mm	961,41 €	UA	1
506516	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT (Q3 4 m³/h) - G 1"	200190	900 mm	696,42 €	UA	1
506516C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	HOT (Q3 4 m³/h) - G 1"	200190 (Included)	900 mm	1.001,85 €	UA	1



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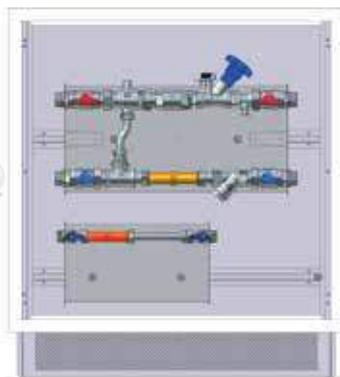
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- Su richiesta sono disponibili moduli MC DN 40 e DN 50.
- DN 40 and DN 50 MC modules are available on request.
- Modules MC DN 40 et DN 50 sont disponibles sur demande.
- MC-Module DN 40 und DN 50 sind Auf Anfrage erhältlich.
- Módulos MC DN 40 y DN 50 están disponibles bajo petición.

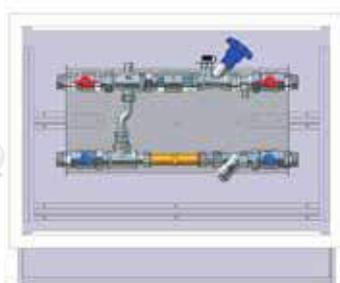
**MC14 (Kv 3,50) - MC24 (Kv 7,00)**



- Modulo di contabilizzazione MC1/MC2 per impianti di riscaldamento e raffrescamento con unità per calore e acqua fredda sanitaria
- MC1/MC2 metering module for heating and cooling systems with units for heat and domestic cold water
- Module de comptabilisation MC1/MC2 pour les systèmes de chauffage et de refroidissement avec unités pour chaleur et eau froide sanitaire
- Messungsmodul MC1/MC2 für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkkaltwasser
- Módulo de contabilización MC1/MC2 para sistemas de calefacción y refrigeración con unidades para calor y agua fría sanitaria

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506507	Kv 3,50 (Qn 2,5 m³/h) - G 1"	COLD (Q3 2,5 m³/h) - G 3/4"	200090	700 mm	622,46 €	UA	1
506507C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	COLD (Q3 2,5 m³/h) - G 3/4"	200090 (Included)	700 mm	858,09 €	UA	1
506508	Kv 3,50 (Qn 2,5 m³/h) - G 1"	COLD (Q3 4 m³/h) - G 1"	200090	700 mm	664,55 €	UA	1
506508C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	COLD (Q3 4 m³/h) - G 1"	200090 (Included)	700 mm	900,18 €	UA	1
506517	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	COLD (Q3 2,5 m³/h) - G 3/4"	200190	900 mm	654,33 €	UA	1
506517C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	COLD (Q3 2,5 m³/h) - G 3/4"	200190 (Included)	900 mm	959,76 €	UA	1
506518	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	COLD (Q3 4 m³/h) - G 1"	200190	900 mm	696,42 €	UA	1
506518C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	COLD (Q3 4 m³/h) - G 1"	200190 (Included)	900 mm	1.001,85 €	UA	1

**MC15 (Kv 3,50) - MC25 (Kv 7,00)**



- Modulo di contabilizzazione MC1/MC2 per impianti di riscaldamento e raffrescamento solo con unità per il calore
- MC1/MC2 metering module for heating and cooling systems with unit for heat only
- Module de comptabilisation pour les systèmes de chauffage et de refroidissement MC1/MC2 uniquement avec unité pour la chaleur
- Messungsmodul MC1/MC2 für Heiz- und Kühlsysteme nur mit Einheit für Wärme
- Módulo de contabilización MC1/MC2 para sistemas de calefacción y refrigeración sólo con unidad para el calor

Code	Heat unit	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506509	Kv 3,50 (Qn 2,5 m³/h) - G 1"	200090	700 mm	559,14 €	UA	1
506509C	Kv 3,50 (Qn 2,5 m³/h) - G 1"	200090 (Included)	700 mm	748,71 €	UA	1
506519	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	200190	900 mm	587,78 €	UA	1
506519C	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	200190 (Included)	900 mm	893,19 €	UA	1



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• Radio WALK-BY >> p. 605



• Radio AMR >> p. 608



• M-BUS >> p. 611

- Su richiesta sono disponibili moduli MC DN 40 e DN 50.
- DN 40 and DN 50 MC modules are available on request.
- Modules MC DN 40 et DN 50 sont disponibles sur demande.
- MC-Module DN 40 und DN 50 sind Auf Anfrage erhältlich.
- Módulos MC DN 40 y DN 50 están disponibles bajo petición.

**AVZS 00**


- Servomotore per valvole di zona a sfera.
- Servo motor for ball zone valves.
- Servomoteur pour vannes de zone à bille.
- Stellantriebe für Zonenkugelventile.
- Servomotor para válvulas de zona de bola.

Code	Size	Price	Class	Packaging
506241	230 V AC - 50 sec.	127,83 €	NN	1

**AVZS 01**


- Servomotore per valvole di zona a sfera.
- Servo motor for ball zone valves.
- Servomoteur pour vannes de zone à bille.
- Stellantriebe für Zonenkugelventile.
- Servomotor para válvulas de zona de bola.

Code	Size	Price	Class	Packaging
506241V	230 V AC - 25 sec.	127,83 €	NN	1

**AVZS 10**

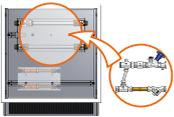

- Servomotore per valvole di zona a sfera con dispositivo di sblocco.
- Servo motor for ball zone valves with release device.
- Servomoteur pour les vannes de zone à bille avec dispositif de déblocage.
- Stellantriebe für Zonenkugelventile mit Entriegelungsvorrichtung.
- Servomotor para válvulas de zona de bola con dispositivo de desbloqueo.

Code	Size	Price	Class	Packaging
506242	24 V AC - 50 sec.	138,14 €	NN	1
506243	230 V AC - 50 sec.	135,24 €	NN	2 / 8

**AVZS 11**


- Servomotore per valvole di zona a sfera con dispositivo di sblocco.
- Servo motor for ball zone valves with release device.
- Servomoteur pour les vannes de zone à bille avec dispositif de déblocage.
- Stellantriebe für Zonenkugelventile mit Entriegelungsvorrichtung.
- Servomotor para válvulas de zona de bola con dispositivo de desbloqueo.

Code	Size	Price	Class	Packaging
506242V	24 V AC - 25 sec.	138,14 €	NN	1
506243V	230 V AC - 25 sec.	135,24 €	NN	1 / 8



For the supply of modules in separate components (template + functional blocks) please refer to the following tables.

**MC1 Template**


- Dima per modulo di contabilizzazione MC1.
- Template for MC1 metering module.
- Gabarit pour module de comptabilisation MC1.
- Schablone für Messungsmodul MC1.
- Plantilla para módulo de contabilización MC1.

Code	Suitable Cabinet	Price	Class	Packaging
509167	200090	222,21 €	UA	1
509167CS	200090 (Included)	456,22 €	UA	1

**MC1 Complementary module**


- Modulo complementare per MC1.
- Complementary module for MC1.
- Module complémentaire pour MC1.
- Ergänzungsmodul für MC1.
- Módulo complementario para MC1.

Code	Heat unit	Price	Class	Packaging
KSB0030	Kv 3,50 (Qn 2,5 m³/h) - G 1"	343,04 €	UA	1

**MC2 Template**


- Dima per modulo di contabilizzazione MC2.
- Template for MC2 metering module.
- Gabarit pour module de comptabilisation MC2.
- Schablone für Messungsmodul MC2.
- Plantilla para módulo de contabilización MC2.

Code	Suitable Cabinet	Price	Class	Packaging
509168	200190	249,66 €	UA	1
509168CS	200190 (Included)	552,93 €	UA	1

**MC2 Complementary module**


- Modulo complementare per MC2.
- Complementary module for MC2.
- Module complémentaire pour MC2.
- Ergänzungsmodul für MC2.
- Módulo complementario para MC2.

Code	Heat unit	Price	Class	Packaging
KSB0032	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	435,42 €	UA	1

- Dima per unità di contabilizzazione acqua sanitaria non inclusa.
- Template for domestic water metering units not included.
- Gabarit pour unités de comptabilisation eau sanitaire non inclus.
- Schablone für Sanitärwasserzähler nicht enthalten.
- Plantilla para unidades de contabilización de agua sanitaria no incluida.

# 2-WAY MODULES

The two-way utility modules are used in plants with variable speed pump thermal power stations which reduce average flow rate circulating in the plant and obtain lower return temperatures, thus increasing the efficiency of the condensing boilers and district heating.

In this field, IVAR proposes EQUICOMPACT, EQUIDYNAMIC and MC 4.

## EQUICOMPACT

EQUICOMPACT is the ultra-compact, versatile utility module with two-way zone valve, essential for heat management. Aside from the standard components of a utility module, such as ball valves, zone valve, filter and stub pipe for heat meter, EQUICOMPACT also houses the differential pressure regulator capillary for dynamic balancing of circuits. In order to meet installation site needs, EQUICOMPACT can also be supplied as installation jig and separate functional components. The measuring electronics is supplied separately with a large choice depending on the requirements of the individual installations.

EQUICOMPACT is also characterised by some variants regarding the available recessed box

- code suffix CB: in the standard wall-mounted version with a galvanised sheet-metal cover painted white
- code suffix CL: in the wall-mounted version with sheet-metal structure and cover set up for plastering
- code suffix CIB: in the wall-mounted recessed version with insulated polypropylene structure and sheet metal cover painted white

EQUICOMPACT power (\*) with Kv=2.5: approximately 16 kW

EQUICOMPACT power (\*) with Kv=3.0: approximately 19 kW

(\*) Thermal gradient = 10 °C; differential pressure at ends of module = 300 mbar

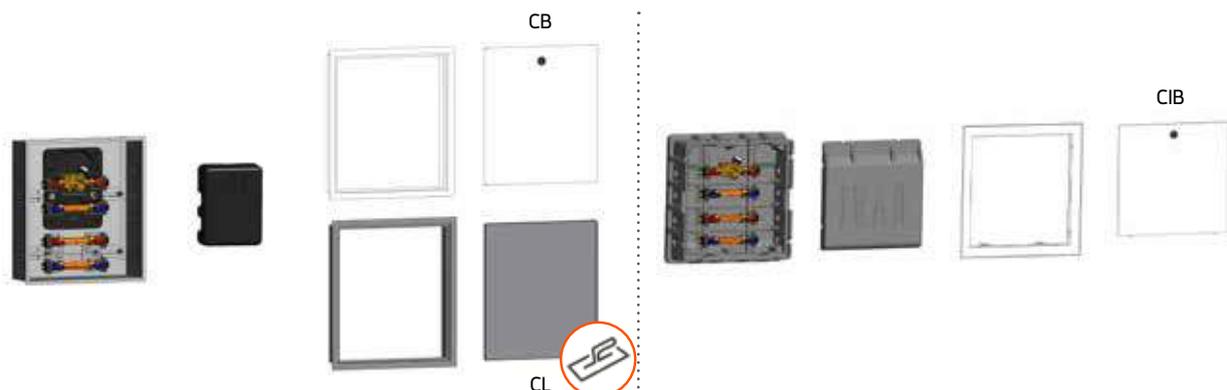
## EQUIDYNAMIC

The EQUIDYNAMIC system is a standard module with ¾ heat metering connections with dynamic balancing. The system is supplied with shut-off valves, filter, probe holder pit on supply line and body of a PICV (Pressure independent control valve): once the system has been washed and filled, the installer applies the insert most suitable for the application, choosing between the models PICC 01, PICC 02 and PICC 03. These inserts stabilise the flow rate at the set value, thus avoiding unbalancing in the different branches of the system. For further information on the inserts, see the PICV section.

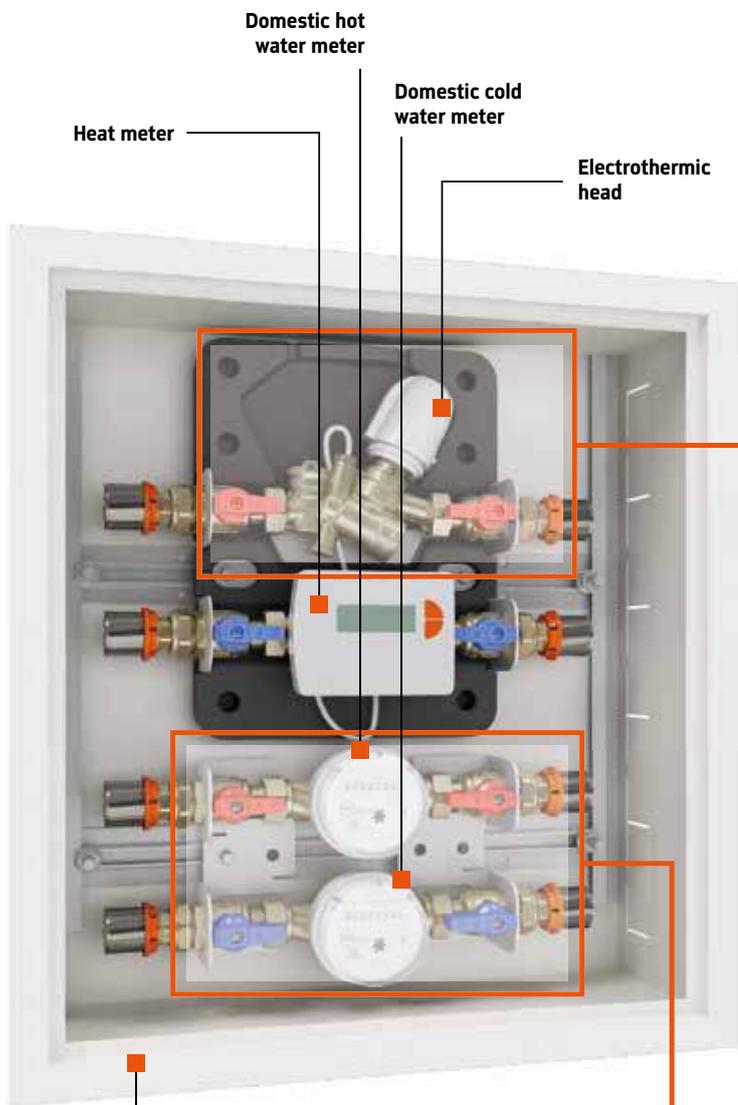
## ⊕ PLUS (EQUICOMPACT)

- Suitable for applications with electronic variable displacement pumps
- Prearranged for use with EQUIFLUID for dynamic balancing of utilities
- Extremely compact for installation in any compartment

## TYPES OF BOXES AVAILABLE FOR EQUICOMPACT/EQUIDYNAMIC MODULES

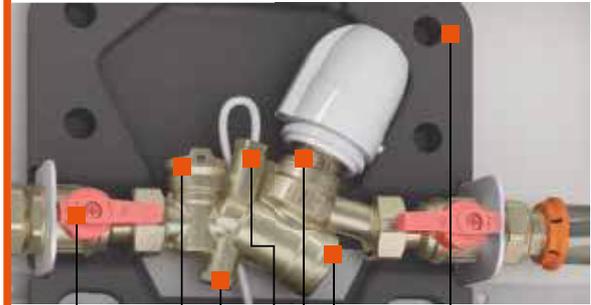


# EQUICOMPACT



The EQC can be supplied **pre-assembled in a box** in the desired configuration **or as separate components**

## CONTROL BLOCK



- Balancing selector** with slot for lead seal
- Well for differential pressure regulator** (to be installed on the return line)
- Components that can be cut off** using ball valves that can be lead-sealed
- Thermally insulated heat block**
- 500-micron filter**
- 2-Way zone valve** with piston
- Well for delivery heat meter probe**

## DOMESTIC WATER LINES

The EQC heat block **can be integrated with one or two domestic water lines**

### KEY FOR METERING UNITS ON THE PAGES BELOW



Heating units.



Domestic hot water units.



Domestic cold water units.

**EQCP1**



- Modulo di contabilizzazione Equicompact® per impianti di riscaldamento e raffrescamento con unità per calore, acqua calda sanitaria e acqua fredda sanitaria.
- *Equicompact® metering module for heating and cooling systems with units for heat, domestic hot water and domestic cold water.*
- Module de comptabilisation Equicompact® pour les systèmes de chauffage et de refroidissement avec unités pour chaleur, eau chaude sanitaire et eau froide sanitaire.
- *Messungsmodul Equicompact® für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser und Trinkkaltwasser.*
- Módulo de contabilización Equicompact® para sistemas de calefacción y refrigeración con unidades para calor, agua caliente sanitaria y agua fría sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506587	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	345,65 €	UA	1
506587CB	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	484,77 €	UA	1
506587CL	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	574,47 €	UA	1
506539	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	365,99 €	UA	1
506539CB	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	505,10 €	UA	1
506539CL	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	594,80 €	UA	1

**EQCP13**



- Modulo di contabilizzazione Equicompact® per impianti di riscaldamento e raffrescamento con unità per calore e acqua calda sanitaria.
- *Equicompact® metering module for heating and cooling systems with units for heat and domestic hot water.*
- Module de comptabilisation Equicompact® pour les systèmes de chauffage et de refroidissement avec unités pour chaleur et eau chade sanitaire.
- *Messungsmodul Equicompact® für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkwarmwasser.*
- Módulo de contabilización Equicompact® para sistemas de calefacción y refrigeración con unidades para calor y agua caliente sanitaria.

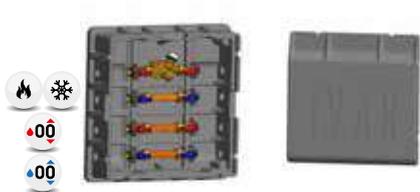
Code	Heat unit	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506638	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	301,62 €	UA	1
506638CB	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	440,73 €	UA	1
506638CL	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	530,43 €	UA	1
506540	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	321,95 €	UA	1
506540CB	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	461,06 €	UA	1
506540CL	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	550,77 €	UA	1

**EQCP14**



- Modulo di contabilizzazione Equicompact® per impianti di riscaldamento e raffrescamento con unità per calore e acqua fredda sanitaria.
- *Equicompact® metering module for heating and cooling systems with units for heat and domestic cold water.*
- Module de comptabilisation Equicompact® pour les systèmes de chauffage et de refroidissement avec unités pour chaleur et eau froide sanitaire.
- *Messungsmodul Equicompact® für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkkaltwasser.*
- Módulo de contabilización Equicompact® para sistemas de calefacción y refrigeración con unidades para calor y agua fría sanitaria.

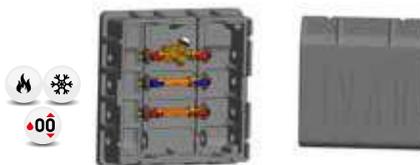
Code	Heat unit	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506663	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	301,62 €	UA	1
506663CB	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	440,73 €	UA	1
506663CL	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	530,43 €	UA	1
506541	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	321,95 €	UA	1
506541CB	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	461,06 €	UA	1
506541CL	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	550,77 €	UA	1

**EQCP1 I**


- Modulo di contabilizzazione Equicompact® per impianti di riscaldamento e raffrescamento con unità per calore, acqua calda sanitaria e acqua fredda sanitaria.
- *Equicompact® metering module for heating and cooling systems with units for heat, domestic hot water and domestic cold water.*
- Module de comptabilisation Equicompact® pour les systèmes de chauffage et de refroidissement avec unités pour chaleur, eau chaude sanitaire et eau froide sanitaire.
- *Messungsmodul Equicompact® für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser und Trinkkaltwasser.*
- Módulo de contabilización Equicompact® para sistemas de calefacción y refrigeración con unidades para calor, agua caliente sanitaria y agua fría sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506587CIB	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 IB (Included)	481,62 €	UA	1

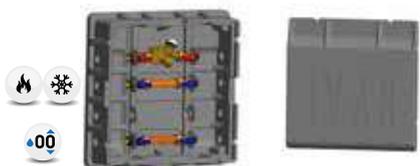
- Cassetta AC 860 IB inclusa.
- *Cabinet AC 860 IB included.*
- Cassette AC 860 IB inclus.
- *Kasten AC 860 IB enthalten.*
- Caja AC 860 IB incluida.

**EQCP13 I**


- Modulo di contabilizzazione Equicompact® per impianti di riscaldamento e raffrescamento con unità per calore e acqua calda sanitaria.
- *Equicompact® metering module for heating and cooling systems with units for heat and domestic hot water.*
- Module de comptabilisation Equicompact® pour les systèmes de chauffage et de refroidissement avec unités pour chaleur et eau chade sanitaire.
- *Messungsmodul Equicompact® für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkwarmwasser.*
- Módulo de contabilización Equicompact® para sistemas de calefacción y refrigeración con unidades para calor y agua caliente sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506638CIB	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 IB (Included)	449,16 €	UA	1

- Cassetta AC 860 IB inclusa.
- *Cabinet AC 860 IB included.*
- Cassette AC 860 IB inclus.
- *Kasten AC 860 IB enthalten.*
- Caja AC 860 IB incluida.

**EQCP14 I**


- Modulo di contabilizzazione Equicompact® per impianti di riscaldamento e raffrescamento con unità per calore e acqua fredda sanitaria.
- *Equicompact® metering module for heating and cooling systems with units for heat and domestic cold water.*
- Module de comptabilisation Equicompact® pour les systèmes de chauffage et de refroidissement avec unités pour chaleur et eau froide sanitaire.
- *Messungsmodul Equicompact® für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkkaltwasser.*
- Módulo de contabilización Equicompact® para sistemas de calefacción y refrigeración con unidades para calor y agua fría sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506663CIB	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 IB (Included)	449,16 €	UA	1

- Cassetta AC 860 IB inclusa.
- *Cabinet AC 860 IB included.*
- Cassette AC 860 IB inclus.
- *Kasten AC 860 IB enthalten.*
- Caja AC 860 IB incluida.



• &gt;&gt; p. 586



• &gt;&gt; p. 590



• Radio WALK-BY &gt;&gt; p. 605

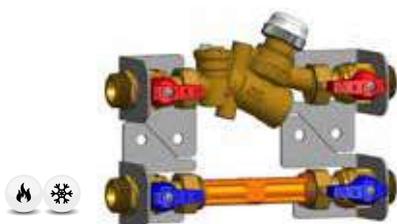


• AMR &gt;&gt; p. 608



• M-BUS &gt;&gt; p. 611

■ EQCP15 (Kv 2,50) - EQCP25 (Kv 3,00)



- Unità calore con staffe per modulo di contabilizzazione Equicomact® per impianti di riscaldamento e raffrescamento.
- Heat unit with brackets for Equicomact® metering module for heating and cooling systems.
- Unité chaleur avec étriers pour module de comptabilisation Equicomact® pour les systèmes de chauffage et de refroidissement .
- Wärme-Einheit mit Wandalterungen für Messungsmodul Equicomact® für Heiz- und Kühlsysteme.
- Unidad calor con soportes para módulo de contabilización Equicomact® para sistemas de calefacción y refrigeración.

Code	Heat unit	Insulation	Suitable Cabinet	Price	Class	Packaging
506575S	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	-	AC 860 B - AC 860 L	190,14 €	UA	1
506575SI	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	✓	AC 860 B - AC 860 L	217,70 €	UA	1
506576S	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	-	AC 860 B - AC 860 L	210,47 €	UA	1
506576SI	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	✓	AC 860 B - AC 860 L	238,04 €	UA	1



• AC 860 B / L >> p. 566



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■ EQCP15 I (Kv 2,50)



- Unità calore per modulo di contabilizzazione Equicomact® per impianti di riscaldamento e raffrescamento.
- Heat unit for Equicomact® metering module for heating and cooling systems.
- Unité chaleur pour module de comptabilisation Equicomact® pour les systèmes de chauffage et de refroidissement.
- Wärme-Einheit für Messungsmodul Equicomact® für Heiz- und Kühlsysteme.
- Unidad calor para módulo de contabilización Equicomact® para sistemas de calefacción y refrigeración.

Code	Heat unit	Suitable Cabinet	Price	Class	Packaging
506575	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	AC 860 IB	166,98 €	UA	1



• AC 860 IB >> p. 567



• >>p. 586

**EQCP05**


- Valvola a 2 vie per modulo di contabilizzazione Equicompact®.
- 2-way valve for Equicompact® metering module.
- Vanne à 2 voies pour module de comptabilisation Equicompact®.
- 2-Wege Ventil für Messungsmodul Equicompact®.
- Válvula de 2 vías para módulo de contabilización Equicompact®.

Code	Size	Price	Class	Packaging
506596	G 3/4"	84,76 €	UA	1 / 24

**TE 3040 IV**


- Testa elettrotermica normalmente chiusa (2 fili) con logo IVAR. Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse ≥ 40 mm.
- Electrothermal head normally closed (2 wires) with IVAR logo. Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 40 mm.
- Tête électrothermique normalement fermée (2 fils) avec logo IVAR. Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe ≥ 40 mm.
- Elektrothermischer Stellantriebe stromlos-zu (2 Kabel) mi IVAR-Logo. Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand ≥ 40 mm.
- Cabeza electrotrémica normalmente cerrada (de 2 hilos) con logo IVAR. Adecuada para todos los tornillos termostattizables IVAR y los colectores con distancia entre centros ≥ 40 mm.

Code	Size	Price	Class	Packaging
501508E	M30 x 1,5 ; ON / OFF (230 V AC)	22,92 €	AC	100

**TE 3040**


- Testa elettrotermica normalmente chiusa (2 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse ≥ 50 mm (no EASY-RADIANT).
- Electrothermal head normally closed (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 50 mm (no EASY-RADIANT).
- Tête électrothermique normalement fermée (2 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe ≥ 50 mm (non EASY-RADIANT).
- Elektrothermischer Stellantriebe stromlos-zu (2 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand ≥ 50 mm (keine EASY-RADIANT).
- Cabeza electrotrémica normalmente cerrada (de 2 hilos). Adecuada para todos los tornillos termostattizables IVAR y los colectores con distancia entre centros ≥ 50 mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
501508	M30 x 1,5 ; ON / OFF (230 V AC)	28,30 €	AC	100
501524	M30 x 1,5 ; ON / OFF (24 V AC/DC)	28,30 €	AC	100

**TE 3050 MC**


- Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse ≥ 40 mm.
- Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 40 mm.
- Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe ≥ 40 mm.
- Elektrothermischer Stellantriebe stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand ≥ 40 mm.
- Cabeza electrotrémica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostattizables IVAR y los colectores con distancia entre centros ≥ 40 mm.

Code	Size	Price	Class	Packaging
500808MC	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100

**TE 3050 M**


- Testa elettrotermica normalmente chiusa con contatto di fine corsa (4 fili). Compatibile con tutti i vitoni termostattizzabili IVAR e i collettori con interasse ≥ 50 mm (no EASY-RADIANT).
- Electrothermal head normally closed with limit switch contact (4 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 50 mm (no EASY-RADIANT).
- Tête électrothermique normalement fermée avec contact de fin de course (4 fils). Adaptée pour tous les inserts thermostatisables IVAR et aux collecteurs avec entraxe ≥ 50 mm (non EASY-RADIANT).
- Elektrothermischer Stellantriebe stromlos-zu mit Endschalterkontakt (4 Kabel). Geeignet für alle Thermostat-Regulievorrichtungen IVAR und für Verteiler mit Achsabstand ≥ 50 mm (keine EASY-RADIANT).
- Cabeza electrotrémica normalmente cerrada con contacto de fin de carrera (de 4 hilos). Adecuada para todos los tornillos termostattizables IVAR y los colectores con distancia entre centros ≥ 50 mm (no EASY-RADIANT).

Code	Size	Price	Class	Packaging
500808M	M30 x 1,5 ; ON / OFF (230 V AC)	33,58 €	AC	100
500028M	M30 x 1,5 ; ON / OFF (24 V AC/DC)	33,58 €	AC	100

**EQDYN1**



- Modulo di contabilizzazione Equidynamic per impianti di riscaldamento e raffrescamento con unità per calore, acqua calda sanitaria e acqua fredda sanitaria.
- Equidynamic metering module for heating and cooling systems with units for heat, domestic hot water and domestic cold water.
- Module de comptabilisation Equidynamic pour les systèmes de chauffage et de refroidissement avec unités pour chaleur, eau chaude sanitaire et eau froide sanitaire.
- Messungsmodul Equidynamic für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser und Trinkkaltwasser.
- Módulo de contabilización Equidynamic para sistemas de calefacción y refrigeración con unidades para calor, agua caliente sanitaria y agua fría sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506669	Self-balancing (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	315,39 €	UA	1
506669CB	Self-balancing (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	454,50 €	UA	1
506669CL	Self-balancing (Qn 1,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	544,20 €	UA	1
506859	Self-balancing (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	335,73 €	UA	1
506859CB	Self-balancing (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	474,84 €	UA	1
506859CL	Self-balancing (Qn 2,5 m³/h) - G 3/4"	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	564,54 €	UA	1

**EQDYN13**



- Modulo di contabilizzazione Equidynamic per impianti di riscaldamento e raffrescamento con unità per calore e acqua calda sanitaria.
- Equidynamic metering module for heating and cooling systems with units for heat and domestic hot water.
- Module de comptabilisation Equidynamic pour les systèmes de chauffage et de refroidissement avec unités pour chaleur et eau chaude sanitaire.
- Messungsmodul Equidynamic für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkwarmwasser.
- Módulo de contabilización Equidynamic para sistemas de calefacción y refrigeración con unidades para calor y agua caliente sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506670	Self-balancing (Qn 1,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	271,36 €	UA	1
506670CB	Self-balancing (Qn 1,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	410,47 €	UA	1
506670CL	Self-balancing (Qn 1,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	500,17 €	UA	1
506860	Self-balancing (Qn 2,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	291,69 €	UA	1
506860CB	Self-balancing (Qn 2,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	430,80 €	UA	1
506860CL	Self-balancing (Qn 2,5 m³/h) - G 3/4"	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	520,50 €	UA	1

**EQDYN14**



- Modulo di contabilizzazione Equidynamic per impianti di riscaldamento e raffrescamento con unità per calore e acqua fredda sanitaria.
- Equidynamic metering module for heating and cooling systems with units for heat and domestic cold water.
- Module de comptabilisation Equidynamic pour les systèmes de chauffage et de refroidissement avec unités pour chaleur et eau froide sanitaire.
- Messungsmodul Equidynamic für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkkaltwasser.
- Módulo de contabilización Equidynamic para sistemas de calefacción y refrigeración con unidades para calor y agua fría sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506671	Self-balancing (Qn 1,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	271,36 €	UA	1
506671CB	Self-balancing (Qn 1,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	410,47 €	UA	1
506671CL	Self-balancing (Qn 1,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	500,17 €	UA	1
506861	Self-balancing (Qn 2,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	291,69 €	UA	1
506861CB	Self-balancing (Qn 2,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B (Included)	430,80 €	UA	1
506861CL	Self-balancing (Qn 2,5 m³/h) - G 3/4"	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 L (Included)	520,50 €	UA	1

**EQDYN15 - EQDYN25**


- Unità calore con staffe per modulo di contabilizzazione Equidynamic per impianti di riscaldamento e raffrescamento.
- Heat unit with brackets for Equidynamic metering module for heating and cooling systems.
- Unité chaleur avec étriers pour module de comptabilisation Equidynamic pour les systèmes de chauffage et de refroidissement.
- Wärme-Einheit mit Wandalterungen für Messungsmodul Equidynamic für Heiz- und Kühlsysteme.
- Unidad calor con soportes para módulo de contabilización Equidynamic para sistemas de calefacción y refrigeración.

Code	Heat unit	Insulation	Suitable Cabinet	Price	Class	Packaging
506632S	Self-balancing (Qn 1,5 m³/h) - G 3/4"	-	AC 860 B - AC 860 L	159,87 €	UA	1
506632SI	Self-balancing (Qn 1,5 m³/h) - G 3/4"	✓	AC 860 B - AC 860 L	187,44 €	UA	1
506633S	Self-balancing (Qn 2,5 m³/h) - G 3/4"	-	AC 860 B - AC 860 L	180,15 €	UA	1
506633SI	Self-balancing (Qn 2,5 m³/h) - G 3/4"	✓	AC 860 B - AC 860 L	207,71 €	UA	1



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**PICV 05**


- Corpo valvola di bilanciamento dinamico, completo di tappo e predisposizione per prese piezometriche. Connessioni maschio - maschio
- Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male connections.
- Corps de vanne d'équilibrage dynamique, avec bouchon et prédisposition pour prises piézométriques. Connexions mâle - mâle
- Körper dynamisches Abgleichventil, komplett mit Kappe und Vorrüstung für Piezometeranschlüsse. AG - AG anschlüsse
- Cuerpo de válvula de equilibrado dinámico provisto de tapón y preparado para tomas piezométricas. Conexiones macho - macho

Code	Size	Color	Price	Class	Packaging
590069	3/4" M x 3/4" M	■	32,60 €	TE	5 / 40

**AVB 10**


- Presa piezometrica.
- Piezometric socket.
- Prise piézométrique.
- Piezometrischer Messventil.
- Toma piezométrica.

Code	Size	Color	Price	Class	Packaging
509088B	1/4" M	■	5,50 €	TE	100
509088R	1/4" M	■	5,50 €	TE	100

**MC3A**



- Unità acqua calda sanitaria e acqua fredda sanitaria con staffe per moduli di contabilizzazione Equicompact®/Equidynamic.
- Domestic hot water and domestic cold water units with brackets for Equicompact/Equidynamic metering modules.
- Unités eau chaude sanitaire et eau froide sanitaire avec étriers pour modules de comptabilisation Equicompact®/Equidynamic.
- Trinkwarmwasser- und Trinkkaltwasser-Einheiten mit Wandalterungen für Messungsmodule Equicompact®/Equidynamic.
- Unidades agua caliente sanitaria y agua fría sanitaria con soportes para módulos de contabilización Equicompact®/Equidynamic.

Code	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506627S	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	100,85 €	UA	1

**MC33A**



- Unità acqua calda sanitaria con staffe per moduli di contabilizzazione Equicompact®/Equidynamic.
- Domestic hot water unit with brackets for Equicompact®/Equidynamic metering modules.
- Unité eau chaude sanitaire avec étrier pour modules de comptabilisation Equicompact®/Equidynamic.
- Trinkwarmwasser-Einheit mit Wandalterungen für Messungsmodule Equicompact®/Equidynamic.
- Unidad agua caliente sanitaria con soportes para módulo de contabilización Equicompact®/Equidynamic.

Code	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506628S	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	57,24 €	UA	2

**MC34A**



- Unità acqua fredda sanitaria con staffe per moduli di contabilizzazione Equicompact®/Equidynamic.
- Domestic cold water unit with brackets for Equicompact®/Equidynamic metering modules.
- Unité eau froide sanitaire avec étrier pour modules de comptabilisation Equicompact®/Equidynamic.
- Trinkkaltwasser-Einheit mit Wandalterungen für Messungsmodule Equicompact®/Equidynamic.
- Unidad agua fría sanitaria con soportes para módulos de contabilización Equicompact®/Equidynamic.

Code	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506629S	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	55,54 €	UA	1

**AC 860 B**



- Cassetta murale da incasso (versione base) per moduli di contabilizzazione Equicompact®/Equidynamic.
- Wall fitted box (basic version) for metering modules Equicompact®/Equidynamic.
- Caisse murale encastrable (version de base) pour modules de comptabilisation Equicompact®/Equidynamic.
- Einbauwandkasten (Grundausführung) für Messungsmodule Equicompact®/Equidynamic.
- Caja mural de empotrar (versión básica) para módulos de contabilización Equicompact®/Equidynamic.

Code	Height	Width	Depth	Price	Class	Packaging
200199	450 mm	450 mm	135-160 mm	139,78 €	NZ	1

**AC 860 L**



- Cassetta murale da incasso (versione con coperchio predisposto per l'intonacatura) per moduli di contabilizzazione Equicompact®/Equidynamic.
- Wall fitted box (version with cover suitable for plastering) for metering modules Equicompact®/Equidynamic.
- Caisse murale encastrable (version avec couverture adaptée pour le plâtre) pour modules de comptabilisation Equicompact®/Equidynamic.
- Einbauwandkasten (Ausführung mit Abdeckung geeignet für das Berappen) für Messungsmodule Equicompact®/Equidynamic.
- Caja mural de empotrar (versión con cubierta adecuada para enyesar) para módulos de contabilización Equicompact®/Equidynamic.

Code	Height	Width	Depth	Price	Class	Packaging
200299	450 mm	450 mm	135-160 mm	228,81 €	NZ	1

**AMEQCP 01**



- Guscio di coibentazione per unità di contabilizzazione del calore per moduli Equicompact®/Equidynamic.
- Insulation shell for heat metering unit for Equicompact®/Equidynamic modules.
- Coque d'isolation pour unité de comptabilisation de chaleur pour modules Equicompact®/Equidynamic.
- Isolierschale für Wärmemesseung Einheit für module Equicompact®/Equidynamic.
- Cobertura aislante para la unidad de contabilización de calor para módulos Equicompact®/Equidynamic.

Code	Module	Price	Class	Packaging
506666	EQCP15 - EQCP25 - EQDYN15 - EQDYN25	27,57 €	UA	5

**MC3A I**


- Unità acqua calda sanitaria e acqua fredda sanitaria per modulo di contabilizzazione Equicomact®.
- Domestic hot water and domestic cold water units for Equicomact® metering module.
- Unités eau chaude sanitaire et eau froide sanitaire pour module de comptabilisation Equicomact®.
- Trinkwarmwasser- und Trinkkaltwasser-Einheiten für Messungsmodul Equicomact®.
- Unidades agua caliente sanitaria y agua fría sanitaria para módulo de contabilización Equicomact®.

Code	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506627	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 IB	77,91 €	UA	1

**MC33A I**


- Unità acqua calda sanitaria per modulo di contabilizzazione Equicomact®.
- Domestic hot water unit for Equicomact® metering module.
- Unité eau chaude sanitaire pour module de comptabilisation Equicomact®.
- Trinkwarmwasser-Einheit für Messungsmodul Equicomact®.
- Unidad agua caliente sanitaria para módulo de contabilización Equicomact®.

Code	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506628	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 IB	45,77 €	UA	1

**MC34A I**


- Unità acqua fredda sanitaria per modulo di contabilizzazione Equicomact®.
- Domestic cold water unit for Equicomact® metering module.
- Unité eau froide sanitaire pour module de comptabilisation Equicomact®.
- Trinkkaltwasser-Einheit für Messungsmodul Equicomact®.
- Unidad agua fría sanitaria para módulo de contabilización Equicomact®.

Code	Domestic water units	Suitable Cabinet	Price	Class	Packaging
506629	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 IB	44,07 €	UA	12

**AC 860 IB**


- Cassetta murale da incasso in polipropilene (versione base) per moduli di contabilizzazione Equicomact®.
- Wall polypropylene fitted box (basic version) for metering modules Equicomact®.
- Caisse murale encastrable en polypropylène (version de base) pour modules de comptabilisation Equicomact®.
- Einbauwandkasten aus Polypropylen (Grundausführung) für Messungsmodule Equicomact®.
- Caja mural de empotrar de polipropileno (versión básica) para módulos de contabilización Equicomact®.

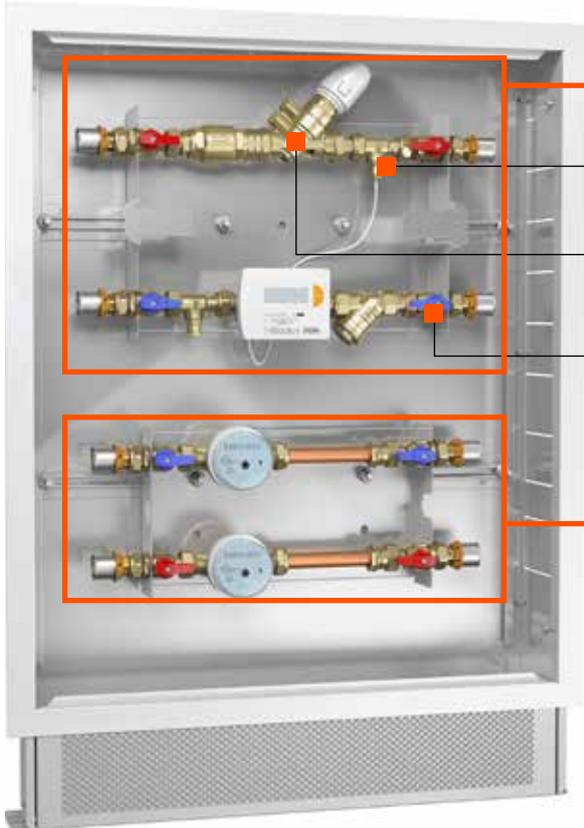
Code	Height	Width	Depth	Price	Class	Packaging
50665B	470 mm	470 mm	120-160 mm	207,84 €	UA	1

**MC 4**

IVAR completes its range of two-way utility modules with the family of MC4 modules, compact unit which includes a PICV (pressure independent control valve) with insert PICC 01/11, PICC 02/12 or thermostatic insert PICC 03 /13, with the double function of flow rate stabilisation valve to ensure ideal dynamic balancing and shut-off valve. This device allows you to choose among 41 flow rate values and assures stability; it can also be managed by an on/off or proportional 0-10 V electrothermal actuator which allows it to be modulated/limited as the demand of the utility varies.

The module is completed with shut-off valve on the primary circuit side and utility side, filter, non-return valve, set up for heat valves and double pit for supply and return probes.

MC4 modules are available in the version with main connections measuring 3/4" or 1".



**CONTROL BLOCK**

Well for delivery heat meter probe

PICV for dynamic balancing of the flow rate

Components can be cut off with ball valves

**DOMESTIC WATER LINES**

Customizable with no, 1, 2 or 3 meters

Available with 2 domestic water lines and anti-scald thermostatic mixer

**+** PLUS

- Freely configurable with volumetric meters for DHW, DCW and dual water
- Equipped with a PICV valve for dynamic balancing of the flow rate
- Pre-assembled or in a template with separate components

**KEY FOR METERING UNITS**



Heating units.



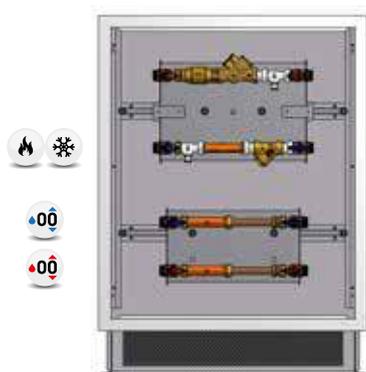
Domestic cold water units.



Domestic hot water units.

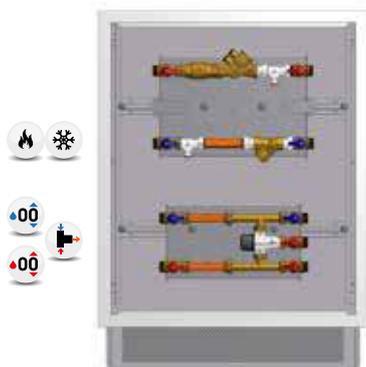


Thermostatic mixer.

**MC4**


- Modulo di contabilizzazione MC4 per impianti di riscaldamento e raffrescamento con unità calore, acqua calda sanitaria e acqua fredda sanitaria.
- MC4 metering module for heating and cooling systems with heat unit, domestic hot water and domestic cold water.
- Module de comptabilisation MC4 pour les systèmes de chauffage et de refroidissement avec unité de chaleur, eau chaude sanitaire et eau froide sanitaire.
- Messungsmodul MC4 für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser und Trinkkaltwasser.
- Módulo de contabilización MC4 para sistemas de calefacción y refrigeración con unidad para calor, agua caliente sanitaria y agua fría sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506706	Qn 1,5 m³/h – G 3/4"	HOT+COLD (Q3 2,5 m³/h) – G 3/4"	200590	600 mm	359,63 €	UA	1
506706C	Qn 1,5 m³/h – G 3/4"	HOT+COLD (Q3 2,5 m³/h) – G 3/4"	200590 (Included)	600 mm	584,78 €	UA	1
506640	Qn 2,5 m³/h – G 1"	HOT+COLD (Q3 2,5 m³/h) – G 3/4"	200090	700 mm	486,41 €	UA	1
506640C	Qn 2,5 m³/h – G 1"	HOT+COLD (Q3 2,5 m³/h) – G 3/4"	200090 (Included)	700 mm	721,59 €	UA	1
506707	Qn 1,5 m³/h – G 3/4"	HOT+COLD (Q3 4 m³/h) – G 1"	200590	600 mm	443,70 €	UA	1
506707C	Qn 1,5 m³/h – G 3/4"	HOT+COLD (Q3 4 m³/h) – G 1"	200590 (Included)	600 mm	669,29 €	UA	1
506641	Qn 2,5 m³/h – G 1"	HOT+COLD (Q3 4 m³/h) – G 1"	200090	700 mm	570,48 €	UA	1
506641C	Qn 2,5 m³/h – G 1"	HOT+COLD (Q3 4 m³/h) – G 1"	200090 (Included)	700 mm	806,11 €	UA	1

**MC41**


- Modulo di contabilizzazione MC4 per impianti di riscaldamento e raffrescamento con unità calore, acqua calda sanitaria, acqua fredda sanitaria e miscelatore termostatico.
- MC4 metering module for heating and cooling systems with heat unit, domestic hot water, domestic cold water and thermostatic blender.
- Module de comptabilisation MC4 pour les systèmes de chauffage et de refroidissement avec unité de chaleur, eau chaude sanitaire, eau froide sanitaire et limiteur de température.
- Messungsmodul MC4 für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser, Trinkkaltwasser und thermostatischem Mischer.
- Módulo de contabilización MC4 para sistemas de calefacción y refrigeración con unidad para calor, agua caliente sanitaria, agua fría sanitaria y mezclador termostático.

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506708	Qn 1,5 m³/h – G 3/4"	HOT+COLD (Q3 2,5 m³/h) + MIX – G 3/4"	200590	600 mm	428,22 €	UA	1
506708C	Qn 1,5 m³/h – G 3/4"	HOT+COLD (Q3 2,5 m³/h) + MIX – G 3/4"	200590 (Included)	600 mm	653,81 €	UA	1
506642	Qn 2,5 m³/h – G 1"	HOT+COLD (Q3 2,5 m³/h) + MIX – G 3/4"	200090	700 mm	555,01 €	UA	1
506642C	Qn 2,5 m³/h – G 1"	HOT+COLD (Q3 2,5 m³/h) + MIX – G 3/4"	200090 (Included)	700 mm	790,63 €	UA	1



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• Radio WALK-BY >> p. 605

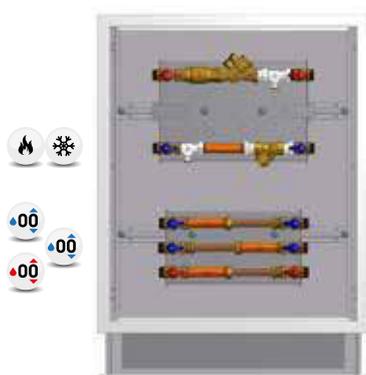


• Radio AMR >> p. 608



• M-BUS >> p. 611

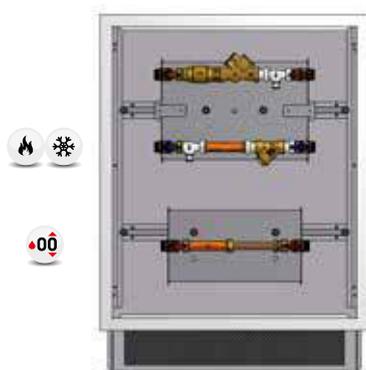
**MC42**



- Modulo di contabilizzazione MC4 per impianti di riscaldamento e raffrescamento con unità calore, acqua calda sanitaria, acqua fredda sanitaria e acqua duale.
- MC4 metering module for heating and cooling systems with heat unit, domestic hot water, domestic cold water and dual water.
- Module de comptabilisation MC4 pour les systèmes de chauffage et de refroidissement avec unité de chaleur, eau chaude sanitaire, eau froide sanitaire et eau duale.
- Messungsmodul MC4 für Heiz- und Kühlsysteme mit Einheiten für Wärme, Trinkwarmwasser, Trinkkaltwasser und Dualkaltwasser.
- Módulo de contabilización MC4 para sistemas de calefacción y refrigeración con unidad para calor, agua caliente sanitaria, agua fría sanitaria y agua fría dual.

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506709	Qn 1,5 m³/h – G 3/4"	HOT+COLD+DUAL (Q3 2,5 m³/h) – G 3/4"	200590	600 mm	404,44 €	UA	1
506709C	Qn 1,5 m³/h – G 3/4"	HOT+COLD+DUAL (Q3 2,5 m³/h) – G 3/4"	200590 (Included)	600 mm	630,03 €	UA	1
506643	Qn 2,5 m³/h – G 1"	HOT+COLD+DUAL (Q3 2,5 m³/h) – G 3/4"	200090	700 mm	531,22 €	UA	1
506643C	Qn 2,5 m³/h – G 1"	HOT+COLD+DUAL (Q3 2,5 m³/h) – G 3/4"	200090 (Included)	700 mm	766,84 €	UA	1
506710	Qn 1,5 m³/h – G 3/4"	HOT+COLD+DUAL (Q3 4 m³/h) – G 1"	200590	600 mm	524,64 €	UA	1
506710C	Qn 1,5 m³/h – G 3/4"	HOT+COLD+DUAL (Q3 4 m³/h) – G 1"	200590 (Included)	600 mm	750,22 €	UA	1
506644	Qn 2,5 m³/h – G 1"	HOT+COLD+DUAL (Q3 4 m³/h) – G 1"	200090	700 mm	651,42 €	UA	1
506644C	Qn 2,5 m³/h – G 1"	HOT+COLD+DUAL (Q3 4 m³/h) – G 1"	200090 (Included)	700 mm	887,04 €	UA	1

**MC43**



- Modulo di contabilizzazione MC4 per impianti di riscaldamento e raffrescamento con unità calore e acqua calda sanitaria.
- MC4 metering module for heating and cooling systems with heat unit and domestic hot water.
- Module de comptabilisation MC4 pour les systèmes de chauffage et de refroidissement avec unité de chaleur et eau chaude sanitaire.
- Messungsmodul MC4 für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkwarmwasser.
- Módulo de contabilización MC4 para sistemas de calefacción y refrigeración con unidad para calor y agua caliente sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506711	Qn 1,5 m³/h – G 3/4"	HOT (Q3 2,5 m³/h) – G 3/4"	200590	600 mm	315,65 €	UA	1
506711C	Qn 1,5 m³/h – G 3/4"	HOT (Q3 2,5 m³/h) – G 3/4"	200590 (Included)	600 mm	541,23 €	UA	1
506645	Qn 2,5 m³/h – G 1"	HOT (Q3 2,5 m³/h) – G 3/4"	200090	700 mm	442,43 €	UA	1
506645C	Qn 2,5 m³/h – G 1"	HOT (Q3 2,5 m³/h) – G 3/4"	200090 (Included)	700 mm	678,05 €	UA	1
506712	Qn 1,5 m³/h – G 3/4"	HOT (Q3 4 m³/h) – G 1"	200590	600 mm	356,09 €	UA	1
506712C	Qn 1,5 m³/h – G 3/4"	HOT (Q3 4 m³/h) – G 1"	200590 (Included)	600 mm	581,68 €	UA	1
506646	Qn 2,5 m³/h – G 1"	HOT (Q3 4 m³/h) – G 1"	200090	700 mm	482,87 €	UA	1
506646C	Qn 2,5 m³/h – G 1"	HOT (Q3 4 m³/h) – G 1"	200090 (Included)	700 mm	718,50 €	UA	1



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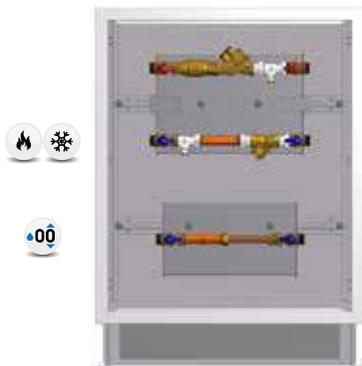
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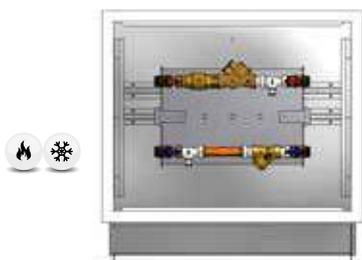


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**MC44**


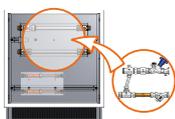
- Modulo di contabilizzazione MC4 per impianti di riscaldamento e raffrescamento con unità calore e acqua fredda sanitaria.
- MC4 metering module for heating and cooling systems with heat unit and domestic cold water.
- Module de comptabilisation MC4 pour les systèmes de chauffage et de refroidissement avec unité de chaleur et eau froide sanitaire.
- Messungsmodul MC4 für Heiz- und Kühlsysteme mit Einheiten für Wärme und Trinkkaltwasser.
- Módulo de contabilización MC4 para sistemas de calefacción y refrigeración con unidad para calor y agua fría sanitaria.

Code	Heat unit	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506713	Qn 1,5 m³/h – G 3/4"	COLD (Q3 2,5 m³/h) – G 3/4"	200590	600 mm	314,00 €	UA	1
506713C	Qn 1,5 m³/h – G 3/4"	COLD (Q3 2,5 m³/h) – G 3/4"	200590 (Included)	600 mm	539,59 €	UA	1
506647	Qn 2,5 m³/h – G 1"	COLD (Q3 2,5 m³/h) – G 3/4"	200090	700 mm	440,78 €	UA	1
506647C	Qn 2,5 m³/h – G 1"	COLD (Q3 2,5 m³/h) – G 3/4"	200090 (Included)	700 mm	676,40 €	UA	1
506714	Qn 1,5 m³/h – G 3/4"	COLD (Q3 4 m³/h) – G 1"	200590	600 mm	356,09 €	UA	1
506714C	Qn 1,5 m³/h – G 3/4"	COLD (Q3 4 m³/h) – G 1"	200590 (Included)	600 mm	581,68 €	UA	1
506648	Qn 2,5 m³/h – G 1"	COLD (Q3 4 m³/h) – G 1"	200090	700 mm	482,87 €	UA	1
506648C	Qn 2,5 m³/h – G 1"	COLD (Q3 4 m³/h) – G 1"	200090 (Included)	700 mm	718,50 €	UA	1

**MC45**


- Modulo di contabilizzazione MC4 per impianti di riscaldamento e raffrescamento solo con unità calore.
- MC4 metering module for heating and cooling systems with unit for heat only.
- Module de comptabilisation MC4 pour les systèmes de chauffage et de refroidissement uniquement avec unité de chaleur.
- Messungsmodul MC4 für Heiz- und Kühlsysteme nur mit Einheit für Wärme.
- Módulo de contabilización MC4 para sistemas de calefacción y refrigeración sólo con unidad para el calor.

Code	Heat unit	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506715	Qn 1,5 m³/h – G 3/4"	200686	600 mm	247,44 €	UA	1
506715C	Qn 1,5 m³/h – G 3/4"	200686 (Included)	600 mm	413,19 €	UA	1
506649	Qn 2,5 m³/h – G 1"	200186	700 mm	374,22 €	UA	1
506649C	Qn 2,5 m³/h – G 1"	200186 (Included)	700 mm	567,02 €	UA	1



**For the supply of modules in separate components (template + functional blocks) please refer to the following tables.**

**MC4 Template**


- Dima per modulo di contabilizzazione MC4.
- Template for MC4 metering module.
- Gabarit pour module de comptabilisation MC4.
- Schablone für Messungsmodul MC4.
- Plantilla para módulo de contabilización MC4.

Code	Suitable Cabinet	Price	Class	Packaging
506639	200590	197,34 €	UA	1
506639CS	200590 (Included)	411,02 €	UA	1
509169	200090	242,13 €	UA	1
509169CS	200090 (Included)	437,86 €	UA	1

- Dima per unità di contabilizzazione acqua sanitaria non inclusa.
- Template for domestic water metering units not included.
- Gabarit pour unités de comptabilisation eau sanitaire non inclus.
- Schablone für Sanitärwasserzähler nicht enthalten.
- Plantilla para unidades de contabilización de agua sanitaria no incluida.

**MC4 Complementary module**


- Modulo complementare per MC4.
- Complementary module for MC4.
- Module complémentaire pour MC4.
- Ergänzungsmodul für MC4.
- Módulo complementario para MC4.

Code	Heat unit	Price	Class	Packaging
KSB0043	Qn 1,5 m³/h – G 3/4"	169,69 €	UA	1
KSB0038	Qn 2,5 m³/h – G 1"	165,82 €	UA	1
KSB0038MR	Qn 2,5 m³/h – G 1"	222,32 €	UA	1

- KSB003MR: modulo stand-alone, utilizzabile senza dima MC4 Template.
- KSB003MR: stand-alone module, no MC4 Template needed.
- KSB003MR: module autonome, aucun gabarit MC4 Template requis.
- KSB003MR: Standalone-Modul, keine Schablone MC4 Template erforderlich.
- KSB003MR: módulo independiente, no se necesita plantilla MC4 Template.

# MODULES FOR DW METERING

## KEY FOR METERING UNITS



Domestic hot water units.

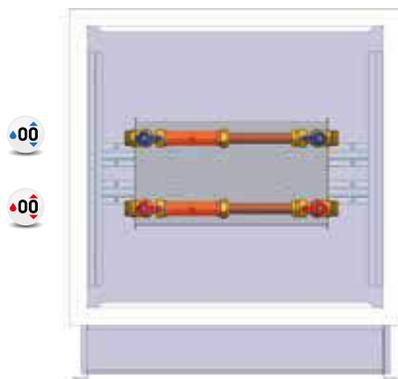


Domestic cold water units.



Thermostatic mixer.

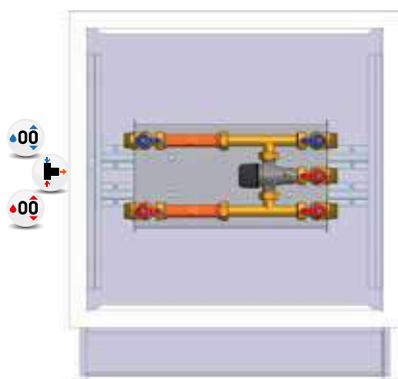
### MC3



- Modulo di contabilizzazione MC3 con unità per acqua calda sanitaria e acqua fredda sanitaria
- MC3 metering module with units for domestic hot water and domestic cold water
- Module de comptabilisation MC3 avec unités pour eau chaude sanitaire et eau froide sanitaire
- Messungsmodul MC3 mit Einheiten für Trinkwarmwasser und Trinkkaltwasser
- Módulo de contabilización MC3 con unidades para agua caliente sanitaria y agua fría sanitaria

Code	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506520	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200086	500 mm	120,59 €	UA	1
506520C	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200086 (Included)	500 mm	283,94 €	UA	1
506521	HOT+COLD (Q3 4 m³/h) - G 1"	200086	500 mm	202,52 €	UA	1
506521C	HOT+COLD (Q3 4 m³/h) - G 1"	200086 (Included)	500 mm	368,03 €	UA	1

### MC31



- Modulo di contabilizzazione MC3 con unità per acqua calda sanitaria, acqua fredda sanitaria e miscelatore termostatico
- MC3 metering module with units for domestic hot water, domestic cold water and thermostatic mixer
- Module de comptabilisation MC3 avec unités pour eau chaude sanitaire, eau froide sanitaire et limiteur de température
- Messungsmodul MC3 mit Einheiten für Trinkwarmwasser, Trinkkaltwasser und thermostatischem Mischer
- Módulo de contabilización MC3 con unidades para agua caliente sanitaria, agua fría sanitaria y mezclador termostático

Code	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506522	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200086	500 mm	187,03 €	UA	1
506522C	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200086 (Included)	500 mm	352,54 €	UA	1



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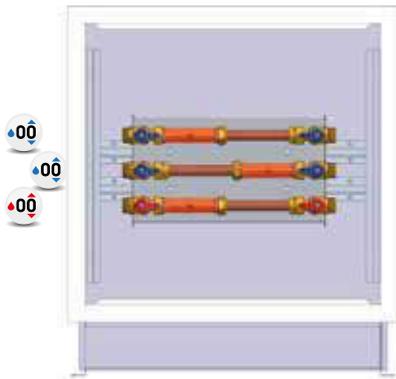
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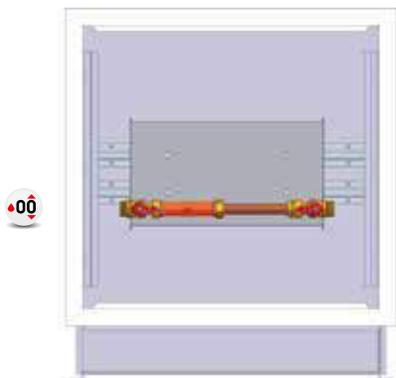


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**MC32**


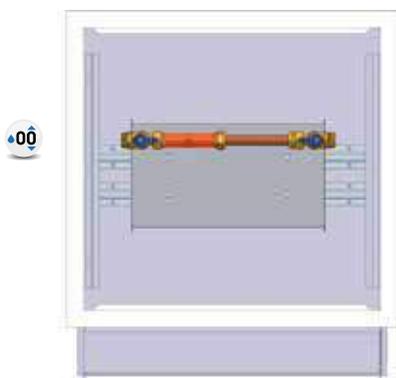
- Modulo di contabilizzazione MC3 con unità per acqua calda sanitaria, acqua fredda sanitaria e acqua fredda duale
- MC3 metering module with units for domestic hot water, domestic cold water and dual cold water
- Module de comptabilisation MC3 avec unités pour eau chaude sanitaire, eau froide sanitaire et eau froide duale
- Messungsmodul MC3 mit Einheiten für Trinkwarmwasser, Trinkkaltwasser und Dualkaltwasser
- Módulo de contabilización MC3 con unidades para agua caliente sanitaria, agua fría sanitaria y agua fría dual

Code	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506523	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200086	500 mm	163,26 €	UA	1
506523C	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200086 (Included)	500 mm	328,76 €	UA	1
506524	HOT+COLD+DUAL (Q3 4 m³/h) - G 1"	200086	500 mm	283,46 €	UA	1
506524C	HOT+COLD+DUAL (Q3 4 m³/h) - G 1"	200086 (Included)	500 mm	448,95 €	UA	1

**MC33**


- Modulo di contabilizzazione MC3 solo con unità per acqua calda sanitaria
- MC3 metering module with unit for domestic hot water only
- Module de comptabilisation MC3 uniquement avec unité pour l'eau chaude sanitaire
- Messungsmodul MC3 nur mit Einheit für Trinkwarmwasser
- Módulo de contabilización MC3 sólo con unidad para agua caliente sanitaria

Code	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506525	HOT (Q3 2,5 m³/h) - G 3/4"	200086	500 mm	74,47 €	UA	1
506525C	HOT (Q3 2,5 m³/h) - G 3/4"	200086 (Included)	500 mm	239,96 €	UA	1
506526	HOT (Q3 4 m³/h) - G 1"	200086	500 mm	117,06 €	UA	1
506526C	HOT (Q3 4 m³/h) - G 1"	200086 (Included)	500 mm	280,41 €	UA	1

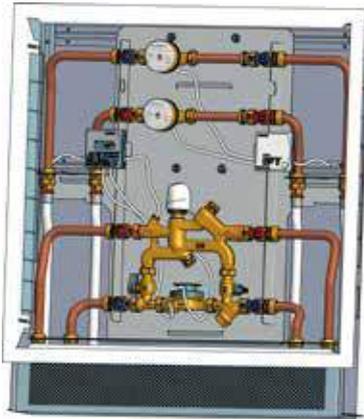
**MC34**


- Modulo di contabilizzazione MC3 solo con unità per acqua fredda sanitaria
- MC3 metering module with unit for domestic cold water only
- Module de comptabilisation MC3 uniquement avec unité pour l'eau froide sanitaire
- Messungsmodul MC3 nur mit Einheit für Trinkkaltwasser
- Módulo de contabilización MC3 sólo con unidad para agua fría sanitaria

Code	Domestic water units	Suitable Cabinet	Cabinet width	Price	Class	Packaging
506527	COLD (Q3 2,5 m³/h) - G 3/4"	200086	500 mm	72,81 €	UA	1
506527C	COLD (Q3 2,5 m³/h) - G 3/4"	200086 (Included)	500 mm	238,32 €	UA	1
506528	COLD (Q3 4 m³/h) - G 1"	200086	500 mm	118,20 €	UA	1
506528C	COLD (Q3 4 m³/h) - G 1"	200086 (Included)	500 mm	280,41 €	UA	1

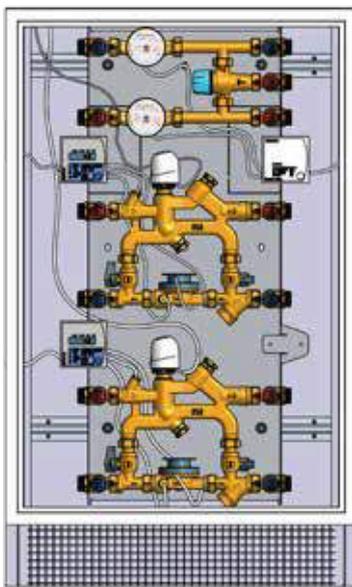
# SPECIAL MODULES

## EQM FLOOR

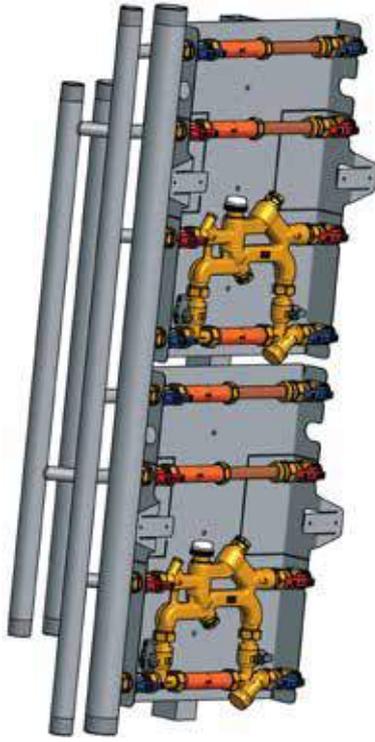


- EQM FLOOR è una versione speciale di Equimeter dotata di supporto in lamiera speciale che permette, mediante alette forate ripiegate verso l'esterno, il fissaggio di tubi appositamente curvati per l'alimentazione e distribuzione dal e verso il basso. Tale soluzione permette di arrivare con le tubazioni direttamente dal basso, evitando difficoltose operazioni di curvatura dei tubi.
- EQM FLOOR is a special version of Equimeter equipped with a special sheet metal support which fixes specifically bent pipes, by means of perforated flaps bent outwards, to feed and distribute from and to the floor. The solution allows pipes to arrive directly from the floor, avoiding difficult pipe curvature operations.
- EQM FLOOR est une version spéciale d'Equimeter dotée d'un support en tôle spéciale qui permet, au moyen d'ailettes percées repliées vers l'extérieur, la fixation de tubes expressément courbés pour l'alimentation et la distribution du et vers le bas. Cette solution permet d'arriver avec les conduites directement du bas, en évitant des opérations de courbure difficiles des tubes.
- EQM FLOOR ist eine spezielle Version des Equimeter mit einem besonderen Blechhalter, bei dem mittels nach außen gebogenen perforierten Lamellen die Montage entsprechender gebogener Rohre für die Versorgung und Verteilung von und nach unten möglich wird. Diese Lösung erlaubt eine Zuführung der Leitungen direkt von unten, ohne schwierige Rohrbiegungen.
- EQM FLOOR es una versión especial de Equimeter con soporte de chapa especial que permite, mediante aletas perforadas dobladas hacia el exterior, la fijación de tubos curvados de manera que la alimentación y distribución se produzcan desde y hacia abajo. Dicha solución permite llegar con las tuberías directamente desde abajo, evitando operaciones complicadas de curvatura de los tubos.

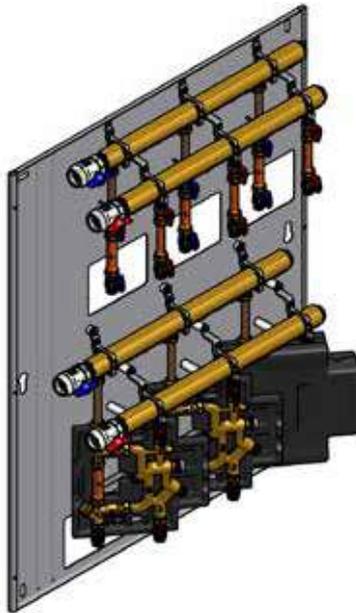
## EQM DOUBLE H/C



- Il sistema EQM DOUBLE è una soluzione ingegnerizzata per gli impianti a quattro tubi in cui i circuiti di alimentazione per riscaldamento e per raffrescamento risultano separati. Il modulo presenta, oltre alla parte di contabilizzazione sanitaria, due moduli Equimeter, uno per la contabilizzazione di energia in riscaldamento l'altro per quella in raffrescamento. Il tutto è alloggiato su apposito telaio in lamiera zincata che può essere inserito in cassetta speciale.
- The EQM DOUBLE system is a solution engineered for four-pipe plants in which the feed circuits for heating and cooling are separate. Aside from the DHW metering part, the module has two Equimeter modules, one to meter heating energy and the other for cooling. It is all housed in a specific galvanised sheet metal frame which can be inserted in a special cabinet.
- Le système EQM DOUBLE est une solution d'ingénierie pour les installations à quatre tubes o les circuits d'alimentation pour chauffage et pour refroidissement sont séparés. Le module présente, outre la partie de comptabilisation sanitaire, deux modules Equimeter, un pour la comptabilisation d'énergie en chauffage, l'autre pour celle en refroidissement. Le tout é logé sur un châssis approprié en tôle zinguée qui peut être inséré dans un boîtier spécial.
- Das System EQM DOUBLE ist eine technische Lösung für Vierrohrsysteme, bei denen die Versorgungskreise für Heizung und Kühlung getrennt sind. Das Modul besitzt, zusätzlich zu dem Teil der Warmwassermessung, zwei Equimeter-Module, eines für die Wärmemengenmessung beim Heizen und eines für die Kühlung. Sämtliche Teile sind auf einem entsprechenden Rahmen aus verzinktem Stahlblech vormontiert, der in einem speziellen Schrank installiert werden kann.
- El sistema EQM DOUBLE es una solución de ingeniería para las instalaciones de cuatro tubos en las que los circuitos de alimentación para calefacción y para aire acondicionado resultan separados. El módulo presenta, además de la parte de contabilización sanitaria, dos módulos Equimeter, uno para la contabilización de energía en calefacción y el otro para la del aire acondicionado. El conjunto se encuentra alojado en un marco de montaje de chapa galvanizada que se puede aplicar a una caja especia.

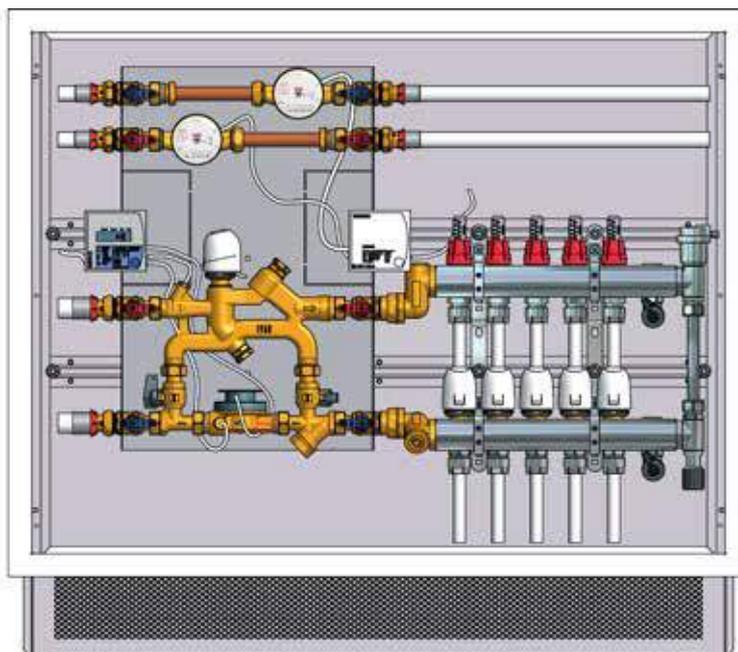
**CMI**


- I moduli CMI (connessioni multiple da incasso) sono soluzioni pensate per l'installazione in appositi vani tecnici realizzati ai singoli piani: in sostituzione delle tradizionali cassette da incasso contenenti i singoli moduli e che vengono installate al di fuori della singola utenza, CMI è un kit preassemblato su apposito telaio che include più moduli Equimeter (da due a cinque) già connessi alle colonne di distribuzione. Gli stacchi possono essere a destra, a sinistra o da ambo i lati delle colonne. Le colonne possono essere realizzate di differenti diametri.
- CMI modules (multiple recessed connections) are solutions designed for installation in specific technical compartments implemented on the single floors: they replace the traditional recessed cabinets containing the individual modules and installed outside the single utility. CMI is a kit pre-assembled on a specific frame including some Equimeter modules (from two to five) already connected to the distribution columns. The units can be on the right, on the left or on both sides of the columns. The columns can be made in different diameters.
- Les modules CMI (connexions multiples à encastrer) sont des solutions pensées pour l'installation en locaux techniques appropriés, réalisés à chaque plan : en substitution des boîtiers traditionnels à encastrer contenant chaque module et qui sont installés au dehors de chaque installation, CMI un kit pré-assemblé sur un châssis approprié qui comprend plusieurs modules Equimeter (de deux à cinq) déjà reliés aux colonnes de distribution. Les détachements peuvent être à droite, à gauche ou des deux côtés des colonnes. Les colonnes peuvent être réalisées en différents diamètres.
- Die CMI-Module (mehrfache Einbauanschlüsse) sind Lösungen für den Einbau in spezielle Technikräume, die auf den einzelnen Stockwerken vorgesehen werden: anstelle der traditionellen Unterputzschränke mit den einzelnen Modulen, die außerhalb der einzelnen Verbrauchereinheiten installiert werden handelt es sich bei dem CMI um einen vormontierten Kit auf einem speziellen Rahmen, der mehrere Equimeter-Module (zwei bis fünf) umfasst, die bereits mit den Verteilsträngen verbunden sind. Die Abgänge können rechts, links oder auf beiden Seiten der Steigstränge vorgesehen werden. Die Steigstränge können in verschiedenen Durchmessern hergestellt werden.
- Los módulos CMI (conexiones múltiples empotrables) son soluciones pensadas para la instalación en compartimentos adecuados técnicos realizados en cada planta: en sustitución de las cajas tradicionales empotrables que contienen cada uno de los módulos y que se instalan fuera de cada dispositivo, CMI es un ékit pre-ensamblado en un marco de montaje adecuado que incluye más de un módulo Equimeter (de dos a cinco) ya conectados a las columnas de distribución. Las desconexiones pueden estar en la derecha, en la izquierda o en ambos lados de las columnas. Las columnas se pueden hacer en diferentes diámetros.

**PLURIMETER**


- PLURIMETER è sistema multiutenza completo assemblato su telaio che prevede più moduli EQUIMETER installati verticalmente e collegati direttamente sul lato primario a dei collettori principali di distribuzione che derivano dalle colonne montanti dell'edificio. Analogamente anche le linee sanitarie delle singole utenze sono collegate a dei collettori principali di distribuzione. Tale soluzione che si sviluppa soprattutto in orizzontale (rispetto ai moduli CMI) permette di concentrare in un'unica zona tecnica i collegamenti idraulici, elettrici e le letture dei dispositivi.
- PLURIMETER is the complete multi-utility system assembled on a frame with several EQUIMETER modules installed vertically and connected directly on the primary side to the main distribution manifolds coming from the upright columns of the building. In the same way the DHW lines of the individual utilities are connected to the main distribution manifolds. This solution is especially developed horizontally (with respect to CMI modules) concentrating the hydraulic and electrical connections and reading devices in a single technical area.
- PLURIMETER est système à plusieurs installations complet, assemblé sur un châssis qui prévoit plusieurs modules EQUIMETER installés verticalement et reliés directement sur le côté primaire à des collecteurs principaux de distribution qui dérivent des colonnes montantes de l'édifice. De façon analogue, les lignes sanitaires de chaque installation sont également reliées à des collecteurs principaux de distribution. Cette solution qui se développe surtout horizontalement (par rapport aux modules CMI) permet de concentrer les raccordements hydrauliques, électriques et les lectures des dispositifs dans une unique zone technique.
- PLURIMETER ist ein System für mehrere Verbraucher, vollständig auf einem Rahmen vormontiert, bei dem mehrere EQUIMETER-Module vertikal eingebaut und direkt mit der Primärseite der Hauptverteiler der Steigleitungen des Gebäudes verbunden sind. Auf gleiche Weise sind auch die Warmwasserleitungen der einzelnen Verbraucher mit den Hauptverteilern verbunden. Diese im wesentlichen waagrecht ausgerichtete Lösung (gegenüber den CMI-Modulen) ermöglicht eine gebündelte Anordnung aller hydraulischen und elektrischen Anschlüsse in einem Technikbereich mit zentraler Ablesung der Einheiten.
- PLURIMETER es un sistema multiusuario completo, ensamblado en marco de montaje que prevé varios módulos EQUIMETER instalados verticalmente y conectados directamente en el lado primario a colectores principales de distribución que derivan de las columnas ascendentes del edificio. De manera parecida también las líneas sanitarias de cada usuario están conectadas y unos colectores principales de distribución. Dicha solución que se desarrolla sobre todo en horizontal (respecto a los módulos CMI) permite concentrar en una única zona técnica las conexiones hidráulicas, eléctricas y las lecturas de los dispositivos.

COLLMETER

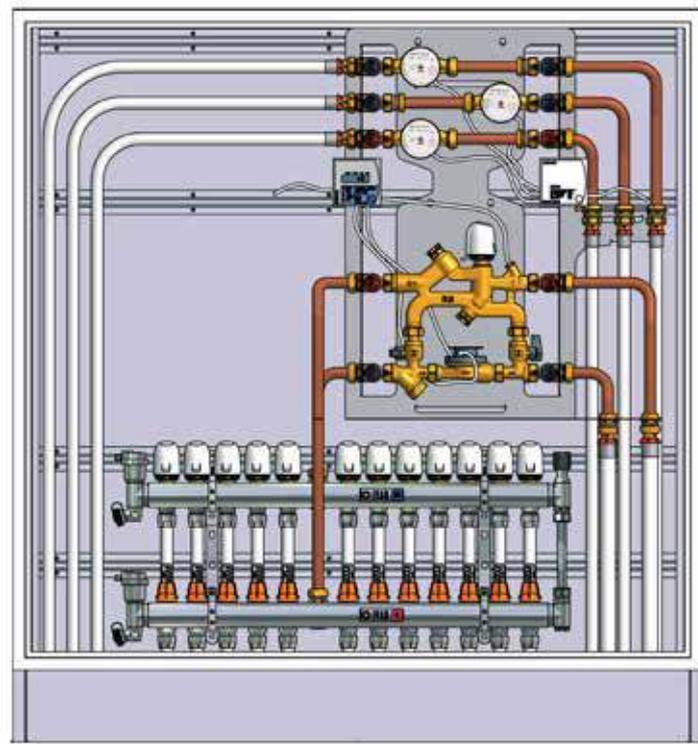


- COLLMETER è una soluzione preassemblata in cassetta da incasso che prevede il modulo Equimeter collegato a collettori di distribuzione. I collettori sono completi di dispositivi Fluxer per il bilanciamento e visualizzazione della portata sui singoli circuiti, valvole di intercettazione sul ritorno, rubinetti di carico/scarico e valvole sfiato aria. Realizzabile anche con modulo di contabilizzazione MC per grandi portate.
- COLLMETER is a pre-assembled solution in a recessed cabinet including an Equimeter module connected to distribution manifolds. The manifolds are complete with Fluxer devices for balancing and displaying the flow rate of the individual circuits, shut-off valves on the return line, filling/drainng valves and air vent valves. Also available with MC metering module for large flow rates.
- COLLMETER est une solution pré-assemblée dans un boîtier à encastrer qui prévoit le module Equimeter relié à des collecteurs de distribution. Les collecteurs comprennent les dispositifs Fluxer pour l'équilibrage et la visualisation du débit sur chaque circuit, vannes d'interception sur le retour, robinets de chargement/déchargement et purgeurs d'air. Également disponible avec le module de mesure MC pour des débits élevés.
- COLLMETER ist eine im Unterputzschrank vormontierte Lösung, bei der das Equimeter-Modul an die Verteilerleitungen angeschlossen wird. Die Verteiler sind mit Fluxer-Einheiten zum Abgleich und Durchflussanzeige der einzelnen Kreise, Absperventile im Rücklauf, Füll-/Entleerhähne sowie Entlüftungsventile ausgestattet. Auch mit MC-Messmodul für hohe Durchflussraten erhältlich.
- COLLMETER es una solución pre-ensamblada en caja para empotrar, que prevé el módulo Equimeter conectado a colectores de distribución. Los colectores cuentan con dispositivos Fluxer para el equilibrado y visualización del caudal en cada circuito, válvulas de interceptación en el retorno, grifos de carga/descarga y válvulas para purgar el aire. También disponible con módulo de medición MC para caudales elevados.

Manifold ways	Suitable box	Height	Width	Depth
2	200690	860-960 mm	800 mm	110-160 mm
3	200690	860-960 mm	800 mm	110-160 mm
4	200190	860-960 mm	900 mm	110-160 mm
5	200190	860-960 mm	900 mm	110-160 mm
6	200790	860-960 mm	1.000 mm	110-160 mm
7	200790	860-960 mm	1.000 mm	110-160 mm
8	200290	860-960 mm	1.100 mm	110-160 mm
9	200290	860-960 mm	1.100 mm	110-160 mm
10	200890	860-960 mm	1.200 mm	110-160 mm
11	200890	860-960 mm	1.200 mm	110-160 mm
12	200390	860-960 mm	1.300 mm	110-160 mm
13	200390	860-960 mm	1.300 mm	110-160 mm



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**COLLMETER FLOOR**


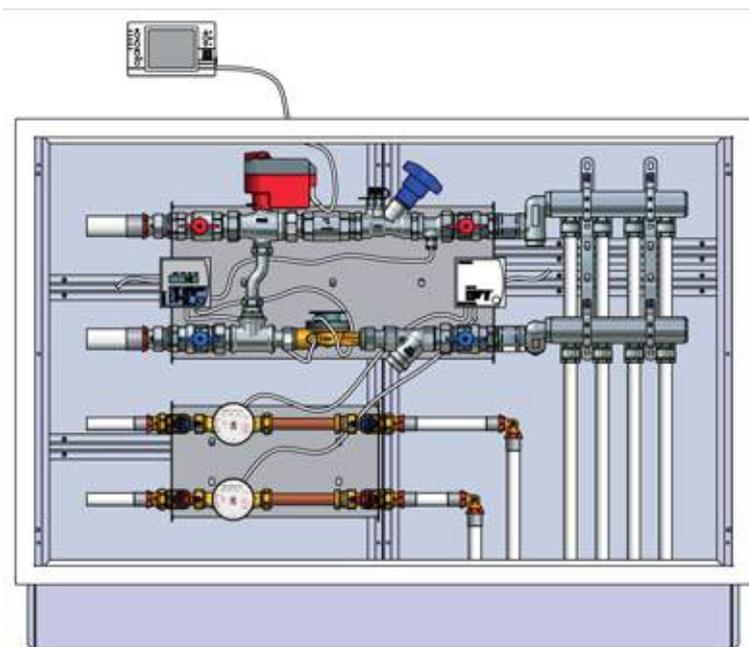
- **COLLMETER FLOOR** presenta gli attacchi dal basso rispetto al **COLLMETER** standard: tale soluzione prevede un supporto in lamiera appositamente studiato con alette esterne per il fissaggio dei tubi provenienti dal basso. I collettori di distribuzione sono disposti al di sotto del modulo Equimeter e vengono alimentati centralmente sfruttando una delle vie del collettore. La soluzione risulta più compatta orizzontalmente, sviluppandosi in verticale. La seguente tabella suggerisce le cassette consigliate in funzione del numero di uscite del collettore.
- **COLLMETER FLOOR** has bottom connections with respect to **COLLMETER** standard: this solution includes a sheet metal support specifically designed with external flaps to fix pipes coming from the floor. The distribution manifolds are arranged underneath the Equimeter module and are fed in the middle by exploiting one of the manifold routes. The solution is more compact horizontally, developing vertically. The following table shows the suggested cabinets depending on the number of manifold outlets.
- **COLLMETER FLOOR** présente les raccords du bas par rapport à **COLLMETER** standard : cette solution prévoit un support en tôle expressément étudié avec des ailettes externes pour la fixation des tubes provenant du bas. Les collecteurs de distribution sont disposés au-dessous du module Equimeter et sont alimentés de façon centrale en exploitant une des voies du collecteur. La solution est plus compacte horizontalement, en se développant verticalement. Le tableau suivant suggère les boîtiers conseillés en fonction du nombre de sorties du collecteur.
- Beim **COLLMETER FLOOR** sind im Gegensatz zum **COLLMETER** Standard die Anschlüsse unten angeordnet: Diese Lösung besitzt einen speziell entwickelten Blechhalter mit externen Lamellen zur Befestigung der von unten kommenden Leitungen. Die Verteiler sind unterhalb des Equimeter-Moduls angeordnet und werden zentral über einen der Verteileranschlüsse gespeist. Die Lösung ist schmaler, da sie sich mehr in vertikaler Richtung entwickelt. Die folgende Tabelle zeigt das empfohlene Schrankmodell entsprechend der Anzahl der Verteilerabgänge.
- **COLLMETER FLOOR** presenta las conexiones desde abajo respecto al **COLLMETER** estándar: dicha solución prevé un soporte de chapa estudiado específicamente con aletas externas para la fijación de los tubos provenientes desde abajo. Los colectores de distribución están colocados por debajo del módulo Equimeter y se alimentan centralmente aprovechando una de las vías del colector. La solución resulta más compacta horizontalmente, desarrollándose en vertical. La siguiente tabla sugiere las cajas aconsejadas en base al número de salidas del collettore.

Manifold ways	Suitable box	Height	Width	Depth
2	200190	860-960 mm	900 mm	110-160 mm
3	200190	860-960 mm	900 mm	110-160 mm
4	200190	860-960 mm	900 mm	110-160 mm
5	200190	860-960 mm	900 mm	110-160 mm
6	200790	860-960 mm	1.000 mm	110-160 mm
7	200790	860-960 mm	1.000 mm	110-160 mm
8	200790	860-960 mm	1.000 mm	110-160 mm
9	200790	860-960 mm	1.000 mm	110-160 mm
10	200290	860-960 mm	1.100 mm	110-160 mm
11	200290	860-960 mm	1.100 mm	110-160 mm
12	200290	860-960 mm	1.100 mm	110-160 mm
13	200290	860-960 mm	1.100 mm	110-160 mm



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COLL-MC

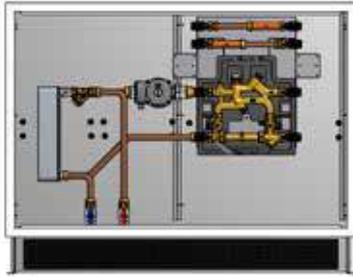


- È un modulo d'utenza che unisce il modulo MC con i collettori di distribuzione da barra. E' possibile personalizzare i collettori con dispositivi Fluxer di bilanciamento e visualizzazione della portata, valvole di intercettazione sul ritorno, rubinetti carico/scarico e valvole sfiato aria. La seguente tabella riporta le cassette suggerite in funzione del numero di uscite sui collettori.
- This utility module unites the MC module with bar distribution manifolds. The manifolds can be customised with Fluxer devices for balancing and displaying the flow rate, shut-off valves on the return line, filling/draining valves and air vent valves. The following table shows the suggested cabinets depending on the number of manifold outlets.
- C'est un module d'installation qui unit le module MC avec les collecteurs de distribution à barre. Il est possible de personnaliser les collecteurs avec dispositifs Fluxer d'équilibrage et de visualisation du débit, vannes d'interception sur le retour, robinets chargement/déchargement et purgeurs d'air. Le tableau suivant reporte les boîtiers suggérés en fonction du nombre de sorties sur les collecteurs.
- Dieses Verbrauchermodul vereinigt das MC-Modul mit den Stangenverteilern. Die Verteiler können mit Fluxer-Einheiten zum Abgleich und Durchflussanzeige, Absperrventile im Rücklauf, Füll-/Entleerhähne sowie Entlüftungsventile individuell angepasst werden. Die folgende Tabelle zeigt das empfohlene Schrankmodell entsprechend der Anzahl der Verteilerabgänge.
- Es un módulo de usuario que une el módulo MC con los colectores de distribución de barra. Los colectores se pueden personalizar con dispositivos Fluxer de equilibrado y visualización del caudal, válvulas de interceptación en el retorno, grifos de carga/descarga y válvulas para purgar el aire. La siguiente tabla indica las cajas aconsejadas en base al número de salidas en los colectores.

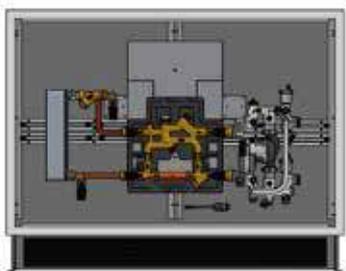
Manifold ways	Suitable box	Height	Width	Depth
2	200190	860-960 mm	900 mm	110-160 mm
3	200190	860-960 mm	900 mm	110-160 mm
4	200790	860-960 mm	1.000 mm	110-160 mm
5	200790	860-960 mm	1.000 mm	110-160 mm
6	200290	860-960 mm	1.100 mm	110-160 mm
7	200290	860-960 mm	1.100 mm	110-160 mm
8	200890	860-960 mm	1.200 mm	110-160 mm
9	200890	860-960 mm	1.200 mm	110-160 mm
10	200390	860-960 mm	1.300 mm	110-160 mm
11	200390	860-960 mm	1.300 mm	110-160 mm
12	200490	860-960 mm	1.500 mm	110-160 mm
13	200490	860-960 mm	1.500 mm	110-160 mm



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**SATMETER**


- SATMETER è un modulo EQUIMETER con scambiatore di calore e pompa di rilancio integrati.
- SATMETER is an EQUIMETER module with integrated heat exchanger and booster pump.
- SATMETER est un module EQUIMETER avec échangeur de chaleur et pompe de surpression intégrés.
- SATMETER ist ein EQUIMETER-Modul mit integrierten Wärmetauscher und Druckerhöhungspumpe.
- SATMETER es un módulo EQUIMETER con intercambiador de calor y bomba de refuerzo integrados.

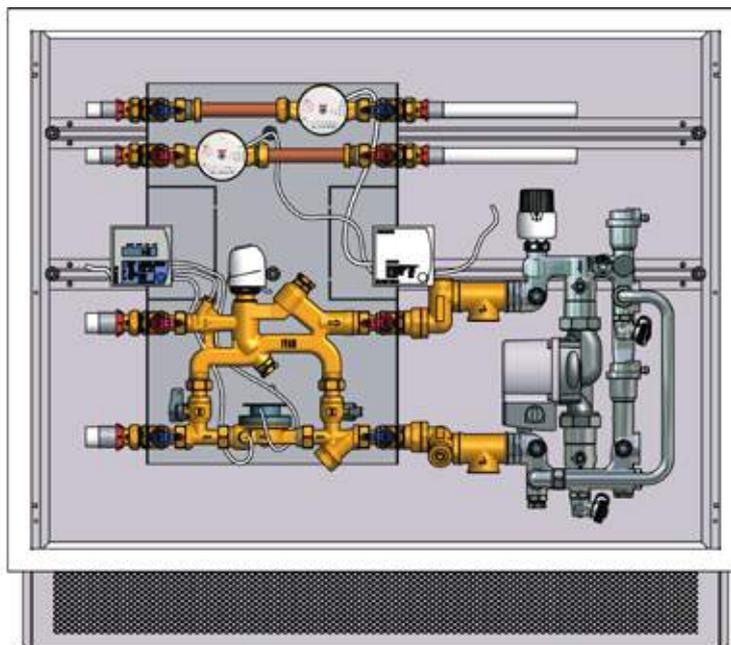
**COMBI-SATMETER**


- COMBI-SATMETER nasce dall'unione di SATMETER e COMBIMIX.
- COMBI-SATMETER is conceived from combining SATMETER and COMBIMIX.
- COMBI-SATMETER naît de l'union de SATMETER et COMBIMIX.
- COMBI-SATMETER entsteht aus der Vereinigung von SATMETER und COMBIMIX.
- COMBI-SATMETER nace de la unión de SATMETER y COMBIMIX.

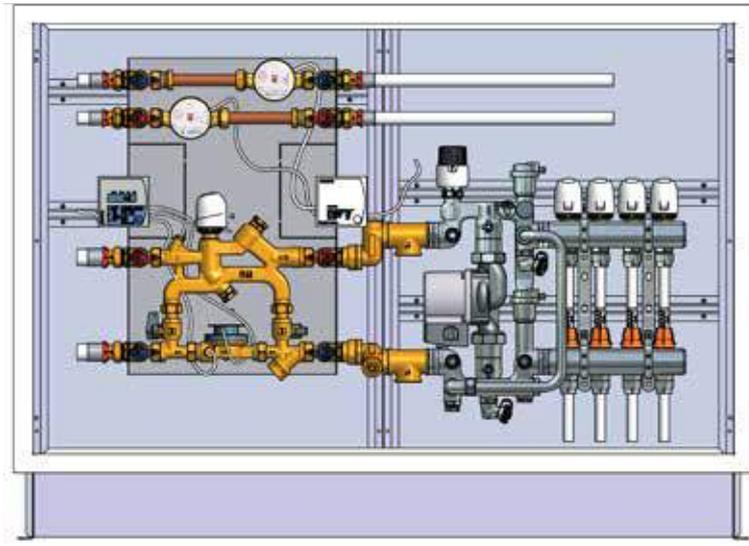
**VARIMETER**


- VARIMETER è un gruppo di contabilizzazione del solo calore che sfrutta la componentistica del sistema VARIMIX. Il modulo VARIMETER presenta una pompa di rilancio sulla mandata, valvole di intercettazione sul lato utenza, termometri sulla mandata e ritorno e tronchetto per l'alloggiamento del contatore di calore. VARIMETER, come il sistema VARIMIX, può essere collegato ai collettori paralleli VAR 30, creando sottostazioni multiple di contabilizzazione e rilancio. Portate disponibili 1,5 - 2,5 - 3,5 - 6 m<sup>3</sup>/h.
- VARIMETER is a metering unit for heat only which exploits the components of the VARIMIX system. The VARIMETER module has a booster pump on the delivery line, shut-off valves on the utility side, thermometers on the delivery and return line and stub pipe housing the heat meter. Like the VARIMIX system, VARIMETER can be connected to parallel VAR 30 manifolds, creating multiple metering and booster substations. Available flow rates 1.5 - 2.5 - 3.5 - 6 m<sup>3</sup>/h.
- VARIMETER est un groupe de comptabilisation de la chaleur seule qui exploite les composants du système VARIMIX. Le module VARIMETER possède une pompe de relance sur le refoulement, des vannes d'interception sur le côté installation, des thermomètres sur le refoulement et le retour, et des tricoises pour le logement du compteur de chaleur. VARIMETER peut, comme le système VARIMIX, être relié aux collecteurs parallèles VAR 30, en créant des sous-stations multiples de comptabilisation et de relance. Débits disponibles 1,5 - 2,5 - 3,5 - 6 m<sup>3</sup>/h.
- VARIMETER ist eine reine Heizwärme-Messgruppe, die Komponenten des VARIMIX-Systems nutzt. Das VARIMETER-Modul besitzt eine Umwälzpumpe im Vorlauf, Absperrventile auf der Verbraucherseite, Thermometer im Vor- und Rücklauf und ein Passstück zur Aufnahme des Wärmezählers. VARIMETER, wie das VARIMIX-System, kann an die Parallelverteiler VAR 30 angeschlossen werden, um mehrere Unterstationen mit Wärmemengenmessung und Umwälzung anzuschließen. Verfügbare Durchflussraten 1,5 - 2,5 - 3,5 - 6 m<sup>3</sup>/h.
- VARIMETER es un grupo que contabiliza solo el calor que utilizan los componentes del sistema VARIMIX. El módulo VARIMETER presenta una bomba de relanzamiento en el impulso, válvulas de interceptación en el lado usuario, termómetros en el impulso y retorno y tronco para el alojamiento del contador de calor. VARIMETER, como el sistema VARIMIX, se puede conectar a los colectores paralelos VAR 30, creando subestaciones múltiples de contabilización y relanzamiento. Caudales disponibles 1,5 - 2,5 - 3,5 - 6 m<sup>3</sup>/h.

## COMBIMETER



- COMBIMETER è un sistema che unisce due prodotti standard del catalogo IVAR: Combimix ed Equimeter. All'interno di un'unica cassetta è possibile quindi avere la contabilizzazione dell'acqua sanitaria (calda e fredda), la contabilizzazione del calore e il gruppo di miscelazione e rilancio per distribuzione a pavimento. Inoltre Combimeter presenta tra il modulo Equimeter e il Combimix dei raccordi a T dai quali è possibile staccare la distribuzione in alta temperatura.
- COMBIMETER is a system which unites two standard products of the IVAR catalogue: Combimix and Equimeter. In a single cabinet you can have metering of sanitary water (hot and cold), metering of heat and the mixing and booster unit for floor distribution. Furthermore Combimeter has tee fittings between the Equimeter and Combimix module, from which high temperature distribution can be detached.
- COMBIMETER est un système qui unit deux produits standards du catalogue IVAR : Combimix et Equimeter. À l'intérieur d'un seul boîtier, il est donc possible d'avoir la comptabilisation de l'eau sanitaire (chaude et froide), la comptabilisation de la chaleur et le groupe de mélange et de relance pour distribution au sol. En outre, Combimeter présente entre le module Equimeter et le Combimix des raccords en T d'où on peut détacher la distribution en haute température.
- COMBIMETER ist ein System, das zwei Standardprodukte des IVAR-Katalogs vereint: Combimix und Equimeter. Innerhalb eines einzigen Schrankes kann die Trinkwassermessung (Warm- und Kaltwasser), die Heizwärmemessung sowie die Regel-/Mischerstation mit Umwälzpumpe für die Fußbodenheizung untergebracht werden. Zusätzlich verfügt Combimeter zwischen dem Combimix-Modul und dem Equimeter-Modul über T-Stücke, an denen Abgänge für die Hochtemperaturverteilung vorgesehen werden können.
- COMBIMETER es un sistema que une dos productos estándar del catálogo IVAR: Combimix y Equimeter. Dentro de una única caja, por lo tanto, se puede tener la contabilización del agua sanitaria (caliente y fría), la contabilización del calor y el grupo de mezcla e impulso para la distribución por el suelo. Además Combimeter presenta, entre el módulo Equimeter y el Combimix, unos racores en forma de T de los cuales se puede desconectar la distribución en alta temperatura.

**COLL-COMBIMETER**


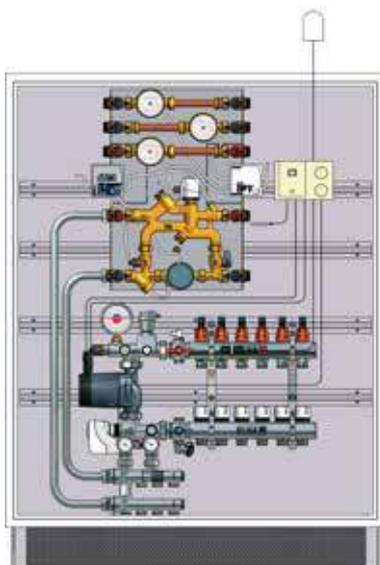
- E' una soluzione che include all'interno di un'unica cassetta un sistema Combimeter e i collettori per la distribuzione a pavimento completi di dispositivi Fluxer per il bilanciamento e la visualizzazione della portata sui singoli circuiti e valvole di intercettazione sul ritorno.
- This solution includes a Combimeter system and manifolds for floor distribution in a single cabinet, complete with Fluxer devices for balancing and displaying the flow rate of the individual circuits and shut-off valves on the return line.
- C'est une solution qui inclut à l'intérieur d'un seul boîtier un système Combimeter et les collecteurs pour la distribution au sol, avec dispositifs Fluxer pour l'équilibrage et la visualisation du débit sur chaque circuit et vannes d'interception sur le retour.
- Es handelt sich um eine Lösung, bei der in einem einzigen Schrank ein Combimeter-System sowie Fußbodenheizungsverteiler mit Fluxer-Einheiten zum Abgleich und Durchflussanzeige der einzelnen Kreise und Absperrventile im Rücklauf installiert sind.
- Es una solución que incluye dentro de una sola caja un sistema Combimeter y los colectores, para la distribución por el suelo, con dispositivos Fluxer para el equilibrado y la visualización del caudal en cada uno de los circuitos y válvulas de interceptación en el retorno.

Manifold ways	Suitable box	Height	Width	Depth
2	200190	860-960 mm	900 mm	110-160 mm
3	200790	860-960 mm	1.000 mm	110-160 mm
4	200790	860-960 mm	1.000 mm	110-160 mm
5	200290	860-960 mm	1.100 mm	110-160 mm
6	200290	860-960 mm	1.100 mm	110-160 mm
7	200890	860-960 mm	1.200 mm	110-160 mm
8	200890	860-960 mm	1.200 mm	110-160 mm
9	200390	860-960 mm	1.300 mm	110-160 mm
10	200390	860-960 mm	1.300 mm	110-160 mm
11	200490	860-960 mm	1.500 mm	110-160 mm
12	200490	860-960 mm	1.500 mm	110-160 mm
13	200490	860-960 mm	1.500 mm	110-160 mm



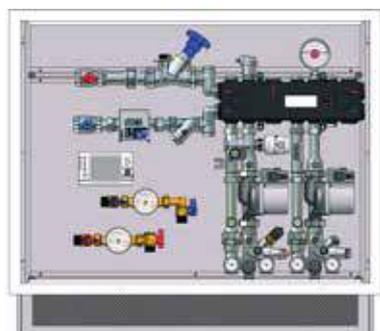
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## UNIMETER

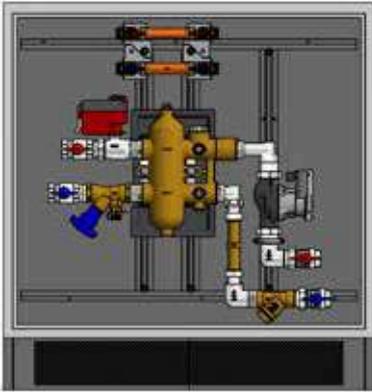


- Unimeter unisce all'interno di un'unica cassetta i sistemi Equimeter per la contabilizzazione del calore e il sistema UNIMIX per la miscelazione e distribuzione agli impianti radianti a pavimento. In questo caso la soluzione si sviluppa verticalmente riducendo gli ingombri in orizzontale. UNIMIX può quindi essere equipaggiato sia con i collettori di bassa temperatura (con relativi accessori) sia con i collettori di alta temperatura. Fino ad un massimo di 10 uscite sui circuiti a pavimento UNIMETER può essere alloggiato in cassette aventi luce utile di 1100 mm (altezza) x 900 mm (larghezza) x 110 mm (profondità). Nel caso di uscite da 11 a 13 è necessario passare a cassette con luce 1100 mm x 1100 mm x 110 mm.
- Unimeter unites Equimeter systems for metering heat and the UNIMIX system for mixing and distributing radiant floor systems in one cabinet. In this case, the solution is developed vertically, reducing horizontal encumbrances. UNIMIX can therefore be equipped both with low temperature manifolds (with relative accessories) and with high temperature manifolds. With up to a maximum of 10 outlets on floor circuits, UNIMETER can be housed in cabinets with useful space of 1100 mm (height) x 900 mm (width) x 110 mm (depth). With 11 to 13 outlets, cabinets 1100 mm x 1100 mm x 110 mm need to be used.
- Unimeter unit à l'intérieur d'un seul boîtier les systèmes Equimeter pour la comptabilisation de la chaleur et le système UNIMIX pour le mélange et la distribution aux installations radiantes au sol. Dans ce cas, la solution se développe verticalement réduisant ainsi les encombrements horizontaux. UNIMIX peut donc être équipé soit avec les collecteurs de basse température (avec les accessoires correspondants) soit avec les collecteurs de haute température. Jusqu'à un maximum de 10 sorties sur les circuits au sol UNIMETER peut être logé dans des boîtiers ayant un jour utile de 1100 mm (hauteur) x 900 mm (largeur) x 110 mm (profondeur). En cas de sorties de 11 à 13, il faut passer à des boîtiers ayant un jour de 1100 mm x 1100 mm x 110 mm.
- Unimeter vereint in einem einzigen Schrank die Equimeter-Systeme zur Wärmemessung und das UNIMIX-System für Mischung und Verteilung an die Fußbodenheizungskreise. In diesem Fall ist die Lösung vertikal ausgerichtet, wodurch sich eine geringe Breite ergibt. UNIMIX kann daher sowohl mit Niedertemperaturverteilern (mit entsprechendem Zubehör) als auch mit Hochtemperaturverteilern ausgestattet werden. Es können maximal 10 UNIMETER-Fußbodenkreise in einem Schrank mit den lichten Abmessungen 1100 mm (Höhe) x 900 mm (Breite) x 110 mm (Tiefe) untergebracht werden. Bei 11 – 13 Abgängen muss ein Schrank mit lichtem Maß 1100 mm x 1100 mm x 110 mm vorgesehen werden.
- Unimeter reúne dentro de una única caja los sistemas para la contabilización del calor y el sistema UNIMIX para la mezcla y distribución en las instalaciones radiantes de suelo. En este caso la solución se desarrolla verticalmente reduciendo las dimensiones en horizontal. UNIMIX por lo tanto se puede equipar ya sea con los colectores de baja temperatura (con los correspondientes accesorios), ya sea con los colectores de alta temperatura. Hasta un máximo de 10 salidas en los circuitos por suelo UNIMETER puede alojarse en cajas con un espacio útil de 1100 mm (altura) x 900 mm (anchura) x 110 mm (profundidad). En el caso de salidas de 11 a 13 es necesario pasar a cajas con luz 1100 mm x 1100 mm x 110 mm.

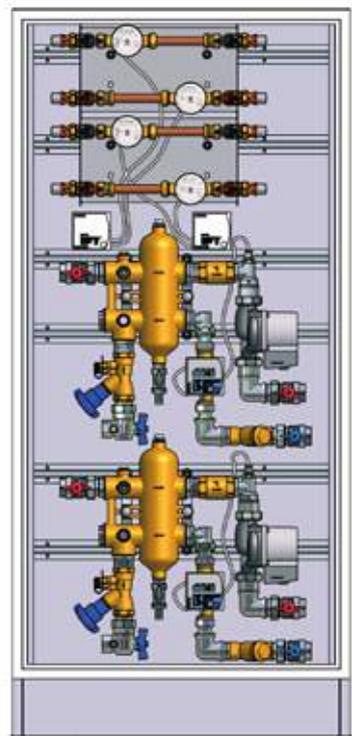
## MULTIMETER



- MULTIMETER abbina un sistema di contabilizzazione del calore e dell'acqua sanitaria ad un gruppo MULTIMIX. La parte di contabilizzazione calore comprende due valvole di intercettazione all'ingresso e all'uscita del modulo, una valvola di bilanciamento, un filtro e il tronchetto per l'alloggiamento del contatore di calore sul ritorno. Grazie a due raccordi eccentrici il sistema viene collegato al collettore/separatore idraulico del gruppo MULTIMIX che a seconda delle esigenze specifiche può essere completato con i moduli di distribuzione di alta e/o bassa temperatura.
- MULTIMETER combines a heat and DHW metering system to a MULTIMIX unit. The heat metering part includes two shut-off valves at the inlet and outlet of the module, a balancing valve, a filter and the stub pipe housing the heat meter on the return line. The system is connected to the hydraulic manifold/separator of the MULTIMIX unit by two eccentric fittings. According to specific requirements, it can be completed with high and/or low temperature distribution modules.
- MULTIMETER associe un système de comptabilisation de la chaleur et de l'eau sanitaire à un groupe MULTIMIX. La partie de comptabilisation de la chaleur comprend deux vannes d'interception à l'entrée et à la sortie du module, une vanne d'équilibrage, un filtre et les tricoises pour le logement du compteur de chaleur sur le retour. Grâce à deux raccords excentriques, le système est relié au collecteur/séparateur hydraulique du groupe MULTIMIX qui peut, selon les exigences spécifiques, être complété avec les modules de distribution de haute et/ou basse température.
- MULTI kombiniert ein Heizwärme- und Warmwasser-Messsystem mit einer MULTIMIX-Gruppe. Der Abschnitt der Heizwärmemessung umfasst zwei Absperrventile am Zu- und Ablauf des Moduls, ein Abgleichventil, ein Filter und das Passstück für den Wärmezähler im Rücklauf. Dank zweier Exzenterverschraubungen wird das System mit dem Verteiler/der hydraulischen Weiche der MULTIMIX-Gruppe verbunden, die nach Bedarf mit den Hoch-/Niedertemperatur-Verteilermodulen vervollständigt werden kann.
- MULTIMETER combina un sistema de contabilización del calor y del agua sanitaria a un grupo MULTIMIX. La parte de contabilización del calor comprende dos válvulas de interceptación en la entrada y la salida del módulo, una válvula de equilibrado, un filtro y el tronco para el alojamiento del contador de calor en el retorno. Gracias a los dos racores excéntricos el sistema se conecta al colector/separador hidráulico del grupo MULTIMIX que según las necesidades específicas se puede completar con los módulos de distribución de alta y/o baja temperatura.

**SEPMETER**


- SEPMETER è una soluzione che prevede la separazione idraulica tra il circuito primario di caldaia e il circuito della singola utenza. Il sistema prevede un separatore idraulico al centro che divide la parte primaria del modulo, su cui sono montate valvole a sfera di ingresso e uscita e una valvola di bilanciamento, da quella secondaria completa di valvola di ritegno, pompa di rilancio, valvole di intercettazione, filtro e tronchetto per alloggiamento contatore di calore. Il modulo si completa con le linee di distribuzione sanitaria. SEPMETER è anche disponibile nella variante con valvola miscelatrice sul lato secondario per poter distribuire acqua a bassa temperatura ad impianti radianti.
- SEPMETER is a solution which hydraulically separates the primary boiler circuit and the single utility circuit. The system has a hydraulic separator in the middle which divides the primary part of the module, upon which inlet and outlet ball valves and a balancing valve are mounted, from the secondary part complete with check valve, booster pump, shut-off valves, filter and stub pipe housing the heat meter. The module is completed with DHW distribution lines. SEPMETER is also available in the variant with mixer valve on the secondary side to distribute low temperature water to radiant systems.
- SEPMETER est une solution qui prévoit la séparation hydraulique entre le circuit primaire de la chaudière et le circuit de chaque installation. Le système prévoit un séparateur hydraulique au centre, qui divise la partie primaire du module sur lequel sont montés des soupapes à bille d'entrée et de sortie, et une vanne d'équilibrage, et la partie secondaire avec vanne de retenue, pompe de relance, vannes d'interception, filtre et tricoises pour le logement du compteur de chaleur. Le module se complète avec les lignes de distribution sanitaire. SEPMETER est également disponible dans la variante avec vanne mélangeuse sur le côté secondaire pour pouvoir distribuer de l'eau à basse température à des installations radiantes.
- SEPMETER ist eine Lösung für die hydraulische Trennung zwischen Primärkesselkreis und dem Kreislauf der einzelnen Verbraucher. Das System besitzt in der Mitte eine hydraulische Weiche, die den Primärteil des Moduls trennt. In diesem sind Kugelhähne am Zu- und Ablauf sowie ein Abgleichventil installiert, im Sekundärteil sind Rückschlagventil, Umwälzpumpe, Absperrventile, Filter und Passstück für Wärmehähler. Das Modul wird mit den Trinkwasser-Verteilungen vervollständigt. SEPMETER steht auch als Variante mit Mischventil auf der Sekundärseite zur Verfügung, um Niedertemperaturheizkreise mit Wasser zu versorgen.
- SEPMETER es una solución que prevé la separación hidráulica entre el circuito primario de la caldera y el circuito del punto de uso individual. El sistema prevé un separador hidráulico al centro que divide la parte primaria del módulo, en el que están montadas las válvulas de esfera de entrada y salida y una válvula de equilibrado, de aquella secundaria con válvula de retención, bomba de relanzamiento, válvulas de interceptación, filtro y tronco para alojamiento del contador de calor. El módulo se completa con las líneas de distribución sanitaria. SEPMETER también está disponible en la versión con válvula mezcladora en el lado secundario para poder distribuir agua a baja temperatura a las instalaciones radiantes.

**MULTI-SEPMETER**


- MULTI-SEPMETER è un sistema che prevede più SEPMETER alloggiati all'interno della stessa cassetta. Tale soluzione presenta il vantaggio di concentrare in un'unica area le connessioni idrauliche, elettriche e la lettura dei dispositivi.
- MULTI-SEPMETER is a system which includes several SEPMETER units housed in the same cabinet. This solution has the advantage of concentrating hydraulic and electrical connections and reading devices in the same area.
- MULTI-SEPMETER est un système qui prévoit plusieurs SEPMETER logés à l'intérieur du même boîtier. Cette solution présente l'avantage de concentrer les connexions hydrauliques, électriques et la lecture des dispositifs dans une seule zone.
- Bei dem MULTI-SEPMETER-System werden mehrere SEPMETER im gleichen Schrank untergebracht. Diese Lösung bietet den Vorteil, die hydraulischen und elektrischen Anschlüsse sowie den Ablesepunkt der Zähler an einer Stelle zusammenzufassen.
- MULTI-SEPMETER es un sistema que prevé varios SEPMETER alojados dentro de la misma caja. Dicha solución presenta la ventaja de concentrar en una única área las conexiones hidráulicas, eléctricas y la lectura de los dispositivos.

# ACCESSORIES FOR METERING MODULES

## L-CAP



- Cappuccio di piombatura per valvola di bilanciamento a sfera per moduli Equimeter.
- Meter seal for ball balancing valve for Equimeter modules.
- Capuchon de plombage pour vanne d'équilibrage à bille pour modules Equimeter.
- Verplombungskappe für Steuerkugelventil für Module Equimeter.
- Tapa de emplomadura para la válvula de bola de equilibrado para módulos Equimeter.

Code	Price	Class	Packaging
0063.01	1,88 €	UA	1

## AC 111



- Pozzetto portasonda con o-ring e tappo.
- Probe-holder fitting with o-ring and plug.
- Raccord porte-sonde avec joint torique et bouchon.
- Anschluss Sondenhalter mit O-ring und Verschluss.
- Racor portasonda con junta tórica y tapa.

Code	Size	Price	Class	Packaging
506227	3/8" x M10	7,09 €	UA	25 / 100

## M 01



- Pozzetto per sonda di temperatura. Disponibile nella versione in plastica ed ottone.
- Well for temperature probe. Available in plastic and brass version.
- Regard pour sonde de température. Disponible dans la version en plastique et en laiton.
- Schacht für Temperatursonde. Erhältlich in Version aus Plastik und Messing.
- Registro para sonda de temperatura. Disponible en las versiones de plástico y latón.

Code	Size	Price	Class	Packaging
00M100001	M10 x 1 - Plastic	6,60 €	UG	1
00M100003	M10 x 1 - Brass	10,23 €	UG	1

## AMCD 01



- Guscio di coibentazione per unità di contabilizzazione del calore.
- Insulation shell for heat metering unit.
- Coque d'isolation pour unité de comptabilisation de chaleur.
- Isolierschale für Wärmemesseung Einheit.
- Cobertura aislante para la unidad de contabilización de calor.

Code	Module	Price	Class	Packaging
506704	EQM series	41,90 €	UA	2
506219	MC1 series	74,85 €	UA	2
502510	MC2 series	95,90 €	UA	1
506384	MC4 series	75,99 €	UA	1

## AC 659 NR



- Valvola a sfera diritta femmina-femmina completa di dado girevole e pozzetto per sonda di temperatura, manovra a farfalla, (rossa).
- Female-female straight ball valve with swivelling nut and well for temperature probe, butterfly operation (red).
- Vanne à bille droite femelle-femelle avec écrou rotatif et regard pour sonde de température, manoeuvre à papillon (rouge).
- Durchgangs-Kugelventil IG-IG mit drehbarer Mutter, Schacht für Temperatursonde und Flügelgriff (rot).
- Válvula de bola recta hembra-hembra completa de tuerca giratoria y registro para sonda de temperatura, vuelta a mariposa (roja).

Code	Size	Color	Price	Class	Packaging
501901NR	3/4" F	■	29,73 €	NO	10 / 40

**AC 840**


- Cassetta murale ad incasso per collettori e moduli MC con altezza e profondità variabili.
- Wall fitted box for manifolds and MC modules with variable height and depth.
- Casette murale encastrable pour collecteurs et modules MC avec hauteur et profondeur variables.
- Einbauwandkasten für Verteiler und Module MC mit variabler Höhe und Tiefe.
- Caja mural de empotrar para colectores y modulos MC de altura y profundidad variables.

Code	Height	Width	Depth	Module	Price	Class	Packaging
200086	600-700 mm	500 mm	80-130 mm	MC3 series	136,12 €	NZ	1
200186	600-700 mm	700 mm	80-130 mm	MC15	161,43 €	NZ	1

**AC 830**


- Cassetta murale ad incasso per collettori e moduli MC / IVAR-SAT / MULTIMIX / MULTIMIX-C con altezza e profondità variabili.
- Wall fitted box for manifolds and MC / IVAR-SAT / MULTIMIX / MULTIMIX-C modules with variable height and depth.
- Casette murale encastrable pour collecteurs et modules MC / IVAR-SAT / MULTIMIX / MULTIMIX-C avec hauteur et profondeur variables.
- Einbauwandkasten für Verteiler und Module MC / IVAR-SAT / MULTIMIX / MULTIMIX-C mit variabler Höhe und Tiefe.
- Caja mural de empotrar para colectores y modulos MC / IVAR-SAT / MULTIMIX / MULTIMIX-C de altura y profundidad variables.

Code	Height	Width	Depth	Module	Price	Class	Packaging
200590	860-960 mm	600 mm	110-160 mm	MC4 series (3/4")	196,64 €	NZ	1
200090	860-960 mm	700 mm	110-160 mm	MC 1/11/12/13/14 - MC4 series (1") - IVAR-SAT H/L/LE - 3-way Multimix/Multimix-C	201,12 €	NZ	1
200190	860-960 mm	900 mm	110-160 mm	MC2 series - IVAR-SAT HL/HLE	265,73 €	NZ	1

**AC 830 S**


- Cassetta murale ad incasso per moduli EQM con altezza e profondità variabili.
- Wall fitted box for EQM modules with variable height and depth.
- Casette murale encastrable pour modules EQM avec hauteur et profondeur variables.
- Einbauwandkasten für Module EQM mit variabler Höhe und Tiefe.
- Caja mural de empotrar para modulos EQM de altura y profundidad variables.

Code	Height	Width	Depth	Module	Price	Class	Packaging
200085	770-870 mm	550 mm	110-160 mm	EQM series	162,49 €	NZ	1
200091	1.000-1.100 mm	550 mm	110-160 mm	EQM double H/C	257,86 €	NZ	1
200095	1.900-2.000 mm	700 mm	200 mm	3-module CMI	633,07 €	NZ	1

# METERS

IVAR offers a complete range of heat meters ranging from the smallest sizes, for use in modules or heating interface units, to larger sizes for use in a heating plant.

The smaller counters are compact and are available in both the single-jet mechanical version and the ultrasonic version. Both the single-jet mechanical meter and the ultrasonic meter are available in modular formats with basic versions (for heating only or for heating/cooling), direct reading to which external modules can be applied to obtain versions with M-BUS output, AMR radio or Walk-by. For more specific applications, there are also meters with M-BUS output and two impulse inputs for the connection of domestic hot water flowmeters.

All meters comply with the MID directive.

## HMR-M



MID

- **Contatore di calore meccanico con uscita M-BUS e due ingressi impulsivi per installazione in cassetta.**
- *Mechanical heat meter with M-BUS output and two pulsed inputs for box installation.*
- **Compteur de chaleur mécanique avec sortie M-BUS et deux entrées impulsives pour installation dans la cassette.**
- *Mechanischer Wärmehähler mit M-BUS-Ausgang und zwei Impulseingänge zur Installation in der Kasten.*
- **Contador de calor mecánico con salida M-BUS y dos entradas impulsivas para instalación en la caja.**

Code	Reading	Size	Qp	Type	Accessories	Price	Class	Packaging
HMR15MFI	M-BUS + 2 pulse IN	G 3/4"	1.50 m³/h	Heat/Cold		386,88 €	UG	1
HMR20MFI	M-BUS + 2 pulse IN	G 1"	2.50 m³/h	Heat/Cold		400,02 €	UG	1
HMR15MFIB	M-BUS + 2 pulse IN	G 3/4"	1.50 m³/h	Heat/Cold	Fittings	395,03 €	UG	1
HMR20MFIB	M-BUS + 2 pulse IN	G 1"	2.50 m³/h	Heat/Cold	Fittings	416,57 €	UG	1

## HMR-D



MID

- **Contatore di calore a lettura diretta per installazione in cassetta.**
- *Heat meter with direct reading for box installation.*
- **Compteur de chaleur à lecture directe pour installation dans la cassette.**
- *Wärmehähler mit direkter Ablesung zur Installation in der Kasten.*
- **Contador de calor con lectura directa para instalación en la caja.**

Code	Reading	Size	Qp	Type	Accessories	Price	Class	Packaging
HMR15DF	Direct reading	G 3/4"	1.50 m³/h	Heat/Cold		405,17 €	UG	1
HMR20DF	Direct reading	G 1"	2.50 m³/h	Heat/Cold		425,97 €	UG	1
HMR15DFB	Direct reading	G 3/4"	1.50 m³/h	Heat/Cold	Fittings	413,32 €	UG	1
HMR20DFB	Direct reading	G 1"	2.50 m³/h	Heat/Cold	Fittings	442,53 €	UG	1

## US-QD



MID

- **Contatore di calore ad ultrasuoni a lettura diretta per installazione in cassetta.**
- *Ultrasonic heat meter with direct reading for box installation.*
- **Compteur de chaleur à ultrasons à lecture directe pour installation dans la cassette.**
- *Ultraschall-Wärmehähler mit direkter Ablesung zur Installation in der Kasten.*
- **Contador de calor con ultrasonidos con lectura directa para instalación en la caja.**

Code	Reading	Size	Qp	Type	Accessories	Price	Class	Packaging
US15QD	Direct reading	G 3/4"	1.50 m³/h	Heat only		482,42 €	UG	1
US20QD	Direct reading	G 1"	2.50 m³/h	Heat only		507,80 €	UG	1
US15QDB	Direct reading	G 3/4"	1.50 m³/h	Heat only	Fittings	490,58 €	UG	1
US20QDB	Direct reading	G 1"	2.50 m³/h	Heat only	Fittings	524,35 €	UG	1

- È possibile ordinare i contatori completi di bocchettoni utilizzando il codice con la "B" finale.
- *It is possible to order the meters complete with fittings using the code with "B" at the end.*
- **Il est possible de commander les compteurs complets avec raccords en utilisant le code avec le «B» final.**
- *Es ist möglich, die Zähler komplett mit Stutzen zu bestellen, indem Sie den Code mit dem „B“ am Ende verwenden.*
- **Es posible pedir los contadores completos con uniones utilizando el código con la "B" al final.**

**HMRI-K001-001**


- **Kit di fissaggio a parete per display HMR e US-QD.**
- *Wall mounting kit for HMR and US-QD display.*
- **Kit pour montage mural pour écran des compteurs HMR et US-QD.**
- *Bausatz für die Wandmontage für Anzeige der Zähler HMR und US-QD.*
- **Kit de montaje en pared para display de los contadores HMR y US-QD.**

Code	Price	Class	Packaging
HMRI-K001-001	15,53 €	UG	1

**MHM5-00A2-00**


- **Modulo per la conversione del contatore a lettura diretta in un contatore con uscita centralizzabile M-BUS.**
- *Module to convert the direct-reading meter into a meter with an M-BUS output that can be centralised.*
- **Module de conversion du compteur à lecture directe en compteur avec sortie centralisée M-BUS.**
- *Modul zur Umwandlung der Zähler mit direkter Lesung in Zähler mit zentralisierbarem M-BUS-Ausgang.*
- **Módulo para convertir el contador de lectura directa en contador con salida centralizada M-BUS.**

Code	Reading	Price	Class	Packaging
MHM5-00A2-00	Direct reading >> M-BUS (cable included)	235,48 €	UG	1

**WFZ166**


- **Modulo per la conversione del contatore a lettura diretta in un contatore con uscita centralizzabile radio WALK-BY.**
- *Module to convert the direct-reading meter into a meter with a WALK-BY radio output that can be centralised.*
- **Module de conversion du compteur à lecture directe en compteur avec sortie centralisée radio WALK-BY.**
- *Modul zur Umwandlung der Zähler mit direkter Lesung in Zähler mit zentralisierbarem WALK-BY Radio-Ausgang.*
- **Módulo para convertir el contador de lectura directa en contador con salida centralizada radio WALK-BY.**

Code	Reading	Price	Class	Packaging
WFZ166-OK	Direct reading >> Radio WALK-BY (Integrated antenna)	177,47 €	UG	1
WFZ166-OF	Direct reading >> Radio WALK-BY (External antenna)	250,80 €	UG	1

**WFZ16**


- **Modulo per la conversione del contatore a lettura diretta in un contatore con uscita centralizzabile radio AMR.**
- *Module to convert the direct-reading meter into a meter with an AMR radio output that can be centralised.*
- **Module de conversion du compteur à lecture directe en compteur avec sortie centralisée radio AMR.**
- *Modul zur Umwandlung der Zähler mit direkter Lesung in Zähler mit zentralisierbarem AMR Radio-Ausgang.*
- **Módulo para convertir el contador de lectura directa en contador con salida centralizada radio AMR.**

Code	Reading	Price	Class	Packaging
WFZ16-OK	Direct reading >> Radio AMR (Integrated antenna)	173,21 €	UG	1
WFZ16-OF	Direct reading >> Radio AMR (External antenna)	242,82 €	UG	1

**WSW5 S**


- **Software per la programmazione di contatori HMR e ripartitori di calore.**
- *Software for HMR meters and heat cost allocator programming.*
- **Logiciel pour la programmation compteurs HMR et répartiteurs de chaleur.**
- *Software für die Zähler HMR und Wärmeverteiler-Programmierung.*
- **Software para la programación de los contadores HMR y repartidores de costes de calefacción.**

Code	Price	Class	Packaging
WSW5-00CABCG	85,72 €	UG	1

**WFZ-IrDA-USB**


- **Cavo con interfaccia ottica per la programmazione dei contatori HMR e dei ripartitori. Connessione USB.**
- *Cable with optical interface for HMR meters and heat cost allocators programming. USB connection.*
- **Câble avec interface optique pour la programmation des compteurs HMR et des répartiteurs. Connexion USB.**
- *Kabel mit optischer Schnittstelle für die Programmierung der Zähler HMR und der Verteiler. USB-Verbindung.*
- **Cable de interfaz óptica para la programación de los contadores HMR y los repartidores. Conexión USB.**

Code	Price	Class	Packaging
WFZ-IRDA-USB	517,28 €	UG	1

## USF



- **Contatore di calore a ultrasuoni con uscita M-BUS e due ingressi impulsivi per installazione in cassetta.**
- *Ultrasonic heat meter with M-BUS output and two pulsed inputs for box installation.*
- **Compteur de chaleur à ultrasons avec sortie M-BUS et deux entrées impulsives pour installation dans la cassette.**
- *Ultraschall-Wärmezähler mit M-BUS-Ausgang und zwei Impulseingänge zur Installation in der Kasten.*
- **Contador de calor con ultrasonidos con salida M-BUS y dos entradas impulsivas para instalación en la caja.**

Code	Reading	Size	Qp	Type	Accessories	Price	Class	Packaging
US15F	M-BUS + 2 pulse IN	DN 15	1.50 m³/h	Heat/Cold		631,18 €	UG	1
US20F	M-BUS + 2 pulse IN	DN 20	2.50 m³/h	Heat/Cold		682,39 €	UG	1
US15FB	M-BUS + 2 pulse IN	DN 15	1.50 m³/h	Heat/Cold	Fittings	690,33 €	UG	1
US20FB	M-BUS + 2 pulse IN	DN 20	2.50 m³/h	Heat/Cold	Fittings	826,64 €	UG	1
US25-3500F	M-BUS + 2 pulse IN	DN 25	3.50 m³/h	Heat/Cold		1.612,44 €	UG	1
US25-6000F	M-BUS + 2 pulse IN	DN 25	6 m³/h	Heat/Cold		1.667,82 €	UG	1

- **È possibile ordinare i contatori DN15 e DN20 completi di bocchettoni utilizzando il codice con la "B" finale.**
- *It is possible to order the DN15 and DN20 meters complete with fittings using the code with "B" at the end.*
- **Il est possible de commander les compteurs DN15 et DN20 complets avec raccords en utilisant le même code avec le «B» final.**
- *Es ist möglich, die Zähler DN15 und DN20 komplett mit Stutzen zu bestellen, indem Sie den Code mit dem „B“ am Ende verwenden.*
- **Es posible pedir los contadores DN15 y DN20 completos con uniones utilizando el código con la "B" al final.**

## SW-US



- **Software di programmazione contatori USF.**
- *Software for USF meters programming.*
- **Logiciel pour la programmation des compteurs USF.**
- *Software für die Programmierung der Zähler USF.*
- **Software para la programación de los contadores USF.**

Code	Price	Class	Packaging
SW-US	1.129,85 €	UG	1

## OG1



- **Cavo con interfaccia ottica per la programmazione dei contatori USF.**
- *Cable with optical interface for USF meters programming.*
- **Câble avec interface optique pour la programmation des compteurs USF.**
- *Kabel mit optischer Schnittstelle für die Programmierung der Zähler USF.*
- **Cable de interfaz óptica para la programación de los contadores USF.**

Code	Price	Class	Packaging
OG1	618,22 €	UG	1

**AC 111**


- **Pozzetto portasonda con o-ring e tappo.**
- *Probe-holder fitting with o-ring and plug.*
- **Raccord porte-sonde avec joint torique et bouchon.**
- *Anschluss Sondenhalter mit O-ring und Verschluss.*
- **Racor portasonda con junta tórica y tapa.**

Code	Size	Price	Class	Packaging
506227	3/8" x M10	7,09 €	UA	25 / 100

**LOCK 01**


- **Piombini per contatore**
- *Lead seals for meter.*
- **Plombs pour compteur.**
- *Plombe für Zähler.*
- **Plomos para contador**

Code	Price	Class	Packaging
506445	5,54 €	UG	1

### WFK



MID

- **Contatore volumetrico per acqua fredda sanitaria a lettura diretta per installazione in cassetta.**
- *Volumetric meter for domestic cold water with direct reading for box installation.*
- **Compteur volumétrique d'eau froide sanitaire à lecture directe pour installation dans la cassetta.**
- *Volumenzähler für Brauchkaltwasser mit direkter Lesung zur Installation in der Kasten.*
- **Contador volumétrico para agua fría sanitaria con lectura directa para instalación en caja.**

Code	Reading	Size	Q3	Type	Accessories	Price	Class	Packaging
WFK30-D110	Direct reading	G 3/4"	2.50 m <sup>3</sup> /h	Cold water (T max 30 °C)		59,02 €	UG	1
WFK30-D130	Direct reading	G 1"	4 m <sup>3</sup> /h	Cold water (T max 30 °C)		75,37 €	UG	1
WFK30-D110B	Direct reading	G 3/4"	2.50 m <sup>3</sup> /h	Cold water (T max 30 °C)	Fittings	67,17 €	UG	1
WFK30-D130B	Direct reading	G 1"	4 m <sup>3</sup> /h	Cold water (T max 30 °C)	Fittings	98,54 €	UG	1

### WFW



MID

- **Contatore volumetrico per acqua calda sanitaria a lettura diretta per installazione in cassetta.**
- *Volumetric meter for domestic hot water with direct reading for box installation.*
- **Compteur volumétrique d'eau chaude sanitaire à lecture directe pour installation dans la cassetta.**
- *Volumenzähler für Brauchwarmwasser mit direkter Lesung zur Installation in der Kasten.*
- **Contador volumétrico para agua caliente sanitaria con lectura directa para instalación en caja.**

Code	Reading	Size	Q3	Type	Accessories	Price	Class	Packaging
WFW30-D110	Direct reading	G 3/4"	2.50 m <sup>3</sup> /h	Hot water (T max 90 °C)		59,02 €	UG	1
WFW30-D130	Direct reading	G 1"	4 m <sup>3</sup> /h	Hot water (T max 90 °C)		75,37 €	UG	1
WFW30-D110B	Direct reading	G 3/4"	2.50 m <sup>3</sup> /h	Hot water (T max 90 °C)	Fittings	67,17 €	UG	1
WFW30-D130B	Direct reading	G 1"	4 m <sup>3</sup> /h	Hot water (T max 90 °C)	Fittings	98,54 €	UG	1

- È possibile ordinare i contatori completi di bocchettoni utilizzando il codice con la "B" finale.
- It is possible to order the meters complete with fittings using the code with "B" at the end.
- Il est possible de commander les compteurs complets avec raccords en utilisant le code avec le «B» final.
- Es ist möglich, die Zähler komplett mit Stutzen zu bestellen, indem Sie den Code mit dem „B“ am Ende verwenden.
- Es posible pedir los contadores completos con uniones utilizando el código con la "B" al final.

### RWM



- **Modulo per la conversione dei contatori WFK e WFW a lettura diretta in contatori con uscita centralizzabile radio WALK-BY o AMR (S-mode o C-mode).**
- *Module to convert the direct-reading WFK and WFW meters into meters with a WALK-BY or AMR (S-mode or C-mode) radio output that can be centralised.*
- **Module de conversion des compteurs WFK et WFW à lecture directe en compteurs avec sortie centralisée radio WALK-BY ou AMR (S-mode ou C-mode).**
- *Modul zur Umwandlung der Zähler WFK und WFW mit direkter Lesung in Zähler mit zentralisierbarem WALK-BY oder AMR (S-mode oder C-mode) Radio-Ausgang.*
- **Módulo para convertir los contadores WFK y WFW de lectura directa en contadores con salida centralizada radio WALK-BY o AMR (S-mode o C-mode).**

Code	Reading	Price	Class	Packaging
RWM5-000N	Direct reading >> Radio WALK-BY / AMR	121,98 €	UG	1

**CAFS-D REED**


MID

- Contatore volumetrico per acqua fredda sanitaria a lettura diretta con predisposizione per uscita impulsiva tramite contatto Reed, per installazione in cassetta.
- Volumetric meter for domestic cold water with direct reading and designed for pulsed output via Reed contact, for box installation.
- Compteur volumétrique d'eau froide sanitaire à lecture directe, avec prédisposition pour sortie impulsive au moyen du contact Reed, pour installation dans la cassette.
- Volumenzähler für Brauchkaltwasser mit direkter Lesung und Vorrüstung für einen Impulsausgang über Reed-Kontakt, zur Installation in der Kasten.
- Contador volumétrico para agua fría sanitaria con lectura directa preparado para salida impulsiva con contacto Reed, para instalación en caja.

Code	Reading	Size	Q3	Type	Accessories	Price	Class	Packaging
SFU-P-13SRP	Direct reading	G 3/4"	2.50 m <sup>3</sup> /h	Cold water (T max 30 °C)		46,26 €	UG	1
SFU-P-20SRP	Direct reading	G 1"	4 m <sup>3</sup> /h	Cold water (T max 30 °C)		54,57 €	UG	1
SFU-P-13SRPB	Direct reading	G 3/4"	2.50 m <sup>3</sup> /h	Cold water (T max 30 °C)	Fittings	54,41 €	UG	1
SFU-P-20SRPB	Direct reading	G 1"	4 m <sup>3</sup> /h	Cold water (T max 30 °C)	Fittings	76,34 €	UG	1

**CACS-D REED**


MID

- Contatore volumetrico per acqua calda sanitaria a lettura diretta con predisposizione per uscita impulsiva tramite contatto Reed, per installazione in cassetta.
- Volumetric meter for domestic hot water with direct reading and designed for pulsed output via Reed contact, for box installation.
- Compteur volumétrique d'eau chaude sanitaire à lecture directe, avec prédisposition pour sortie impulsive au moyen du contact Reed, pour installation dans la cassette.
- Volumenzähler für Brauchwarmwasser mit direkter Lesung und Vorrüstung für einen Impulsausgang über Reed-Kontakt, zur Installation in der Kasten.
- Contador volumétrico para agua caliente sanitaria y lectura directa preparado para salida impulsiva con contacto Reed, para instalación en caja.

Code	Reading	Size	Q3	Type	Accessories	Price	Class	Packaging
SCU-P-13SRP	Direct reading	G 3/4"	2.50 m <sup>3</sup> /h	Hot water (T max 90 °C)		54,79 €	UG	1
SCU-P-20SRP	Direct reading	G 1"	4 m <sup>3</sup> /h	Hot water (T max 90 °C)		72,40 €	UG	1
SCU-P-13SRPB	Direct reading	G 3/4"	2.50 m <sup>3</sup> /h	Hot water (T max 90 °C)	Fittings	62,94 €	UG	1
SCU-P-20SRPB	Direct reading	G 1"	4 m <sup>3</sup> /h	Hot water (T max 90 °C)	Fittings	94,15 €	UG	1

- È possibile ordinare i contatori completi di bocchettoni utilizzando il codice con la "B" finale.
- It is possible to order the meters complete with fittings using the code with "B" at the end.
- Il est possible de commander les compteurs complets avec raccords en utilisant le code avec le «B» final.
- Es ist möglich, die Zähler komplett mit Stutzen zu bestellen, indem Sie den Code mit dem „B“ am Ende verwenden.
- Es posible pedir los contadores completos con uniones utilizando el código con la "B" al final.

**CAV-IMP**


- Cavo per la conversione del contatore a lettura diretta tipo "-D REED" in un contatore con uscita impulsiva.
- Cable to convert the direct reading meter "-D REED" type into a meter with pulsed output.
- Câble pour la conversion du compteur à lecture directe type "-D REED" en compteur avec sortie impulsive.
- Kabel zur Umwandlung der Zähler mit direkter Lesung Typ "-D REED" in Zähler mit Impulsausgang.
- Cable para convertir el contador de lectura directa tipo "-D REED" en un contador con salida impulsiva.

Code	Reading	Length	Price	Class	Packaging
CAV-IMP	Direct reading >> Impulsive	2 m	22,17 €	UG	1

The meters from the heating plant can be split. Their volumetric systems can be mechanical-multijet (up to DN 50), Woltmann (for larger sizes up to DN 200) or ultrasound. They include a pair of temperature probes (wet or dry installation) and a calculation unit that uses the information received from the volumetric system and the probes to calculate the energy consumed. The volumetric units are available for horizontal, vertical ascending or descending mounts. Similarly, IVAR is also offering a complete series of domestic water, flowmeters for cold and hot water. These are available for direct reading or for impulse output, in sizes ranging from DN 15 to DN 250.

### CCWO-I



- **Contatore di calore tipo Woltmann con uscita impulsiva, uscita M-BUS e due ingressi impulsivi per installazione in orizzontale e verticale.**
- *Woltmann heat meter with pulsed output, M-BUS output and two pulsed inputs for horizontal and vertical installation.*
- **Compteur de chaleur de type Woltmann avec sortie impulsive, sortie M-BUS et deux entrées impulsives pour installation horizontale et verticale.**
- *Wärmezähler vom Typ Woltmann mit Impulsausgang, M-BUS-Ausgang und zwei Impulseingänge zur horizontalen und vertikalen Installation.*
- **Contador de calor tipo Woltmann con salida impulsiva, salida M-BUS y dos entradas impulsivas para instalación horizontal y vertical.**

Code	Reading	Size	Qp	Type	Installation	Price	Class	Packaging
CCW050IF	Impulsive (H/V)	DN 50	15 m <sup>3</sup> /h	Heat/Cold	Dry	2.090,36 €	UG	1
CCW065IF	Impulsive (H/V)	DN 65	25 m <sup>3</sup> /h	Heat/Cold	Dry	2.248,45 €	UG	1
CCW080IF	Impulsive (H/V)	DN 80	40 m <sup>3</sup> /h	Heat/Cold	Dry	2.394,26 €	UG	1
CCW0100IF	Impulsive (H/V)	DN 100	60 m <sup>3</sup> /h	Heat/Cold	Dry	2.524,22 €	UG	1
CCW0125IF	Impulsive (H/V)	DN 125	100 m <sup>3</sup> /h	Heat/Cold	Dry	2.800,04 €	UG	1
CCW0150IF	Impulsive (H/V)	DN 150	150 m <sup>3</sup> /h	Heat/Cold	Dry	3.866,27 €	UG	1
CCW0200IF	Impulsive (H/V)	DN 200	250 m <sup>3</sup> /h	Heat/Cold	Dry	4.783,25 €	UG	1

**■ CACML-I**

**MID**

- **Contatore di calore meccanico multigetto con uscita impulsiva, uscita M-BUS e due ingressi impulsivi per installazione in orizzontale.**
- *Multi-jet mechanical heat meter with pulsed output, M-BUS output and two pulsed inputs for horizontal installation.*
- **Compteur de chaleur mécanique à jet multiple avec sortie impulsive, sortie M-BUS et deux entrées impulsives pour installation horizontale.**
- *Mechanischer Mehrstrahl-Wärmezähler mit Impulsausgang, M-BUS-Ausgang und zwei Impulseingänge zur horizontalen Installation.*
- **Contador de calor mecánico multichorro con salida impulsiva, salida M-BUS y dos entradas impulsivas para instalación horizontal.**

Code	Reading	Size	Qp	Type	Installation	Accessories	Price	Class	Packaging
CACML25IF	Impulsive (H)	DN 25	3.50 m <sup>3</sup> /h	Heat/Cold	Wet		1.055,97 €	UG	1
CACML32IF	Impulsive (H)	DN 32	6 m <sup>3</sup> /h	Heat/Cold	Wet		1.183,58 €	UG	1
CACML40IF	Impulsive (H)	DN 40	10 m <sup>3</sup> /h	Heat/Cold	Dry		1.439,39 €	UG	1
CACML25IFB	Impulsive (H)	DN 25	3.50 m <sup>3</sup> /h	Heat/Cold	Wet	Fittings	1.092,55 €	UG	1
CACML32IFB	Impulsive (H)	DN 32	6 m <sup>3</sup> /h	Heat/Cold	Wet	Fittings	1.230,52 €	UG	1
CACML40IFB	Impulsive (H)	DN 40	10 m <sup>3</sup> /h	Heat/Cold	Dry	Fittings	1.501,99 €	UG	1

**■ HS-I**

**MID**

- **Contatore di calore a ultrasuoni con uscita impulsiva, uscita M-BUS e due ingressi impulsivi per installazione in orizzontale e verticale.**
- *Ultrasonic heat meter with pulsed output, M-BUS output and two pulsed inputs for horizontal and vertical installation.*
- **Compteur de chaleur à ultrasons avec sortie impulsive, sortie M-BUS et deux entrées impulsives pour installation horizontale et verticale.**
- *Ultraschall-Wärmezähler mit Impulsausgang, M-BUS-Ausgang und zwei Impulseingänge zur horizontalen und vertikalen Installation.*
- **Contador de calor con ultrasonidos con salida impulsiva, salida M-BUS y dos entradas impulsivas para instalación horizontal y vertical.**

Code	Reading	Size	Qp	Type	Installation	Accessories	Price	Class	Packaging
HS25FI	Impulsive (H/V)	DN 25	3.60 m <sup>3</sup> /h	Heat/Cold	Wet		1.300,40 €	UG	1
HS32FI	Impulsive (H/V)	DN 32	6 m <sup>3</sup> /h	Heat/Cold	Wet		1.359,55 €	UG	1
HS40FI	Impulsive (H/V)	DN 40	10 m <sup>3</sup> /h	Heat/Cold	Dry		1.663,88 €	UG	1
HS25FIB	Impulsive (H/V)	DN 25	3.60 m <sup>3</sup> /h	Heat/Cold	Wet	Fittings	1.334,54 €	UG	1
HS32FIB	Impulsive (H/V)	DN 32	6 m <sup>3</sup> /h	Heat/Cold	Wet	Fittings	1.389,85 €	UG	1
HS40FIB	Impulsive (H/V)	DN 40	10 m <sup>3</sup> /h	Heat/Cold	Dry	Fittings	1.726,48 €	UG	1
HS50FI	Impulsive (H/V)	DN 50	15 m <sup>3</sup> /h	Heat/Cold	Dry	Flanges	2.301,55 €	UG	1
HS65FI	Impulsive (H/V)	DN 65	25 m <sup>3</sup> /h	Heat/Cold	Dry	Flanges	3.136,94 €	UG	1
HS80FI	Impulsive (H/V)	DN 80	40 m <sup>3</sup> /h	Heat/Cold	Dry	Flanges	3.353,94 €	UG	1
HS100FI	Impulsive (H/V)	DN 100	60 m <sup>3</sup> /h	Heat/Cold	Dry	Flanges	4.327,55 €	UG	1

**■ AC 111 HS**


- **Coppia di pozzetti per sonda di temperatura per contatori HS.**
- *Pair of wells for temperature probe for HS meters.*
- **Paire de regards pour sonde de température pour compteurs HS.**
- *Paar von Schächte für Temperatursonde für HS Zähler.*
- **Par de registros para sonda de temperatura para contadores HS.**

Code	Size	Price	Class	Packaging
590021	DN 25-50 meters	36,89 €	UG	1
590022	DN 65-80 meters	55,33 €	UG	1
590023	DN 100-200 meters	73,67 €	UG	1

**■ CACML-TOOL**


- **Kit per la programmazione dei contatori CACML e HS.**
- *Kit for CACML and HS meters programming.*
- **Kit pour la programmation des compteurs CACML et HS.**
- *Bausatz für die Programmierung der Zähler CACML und HS.*
- **Conjunto para la programación de los contadores CACML y HS.**

Code	Price	Class	Packaging
CACML-TOOL	922,00 €	UG	1

■ AFUL



MID

- **Contatore volumetrico per acqua fredda sanitaria con uscita impulsiva per installazione in orizzontale e verticale**
- *Volumetric meter for domestic cold water with pulsed output for horizontal and vertical installation*
- **Compteur volumétrique d'eau froide sanitaire avec sortie impulsive pour installation horizontale et verticale**
- *Volumenzähler für Brauchkaltwasser mit Impulsausgang zur horizontalen und vertikalen Installation*
- **Contador volumétrico para agua fría sanitaria con salida impulsiva para instalar en horizontal y vertical**

Code	Reading	Size	Q3	Type	Price	Class	Packaging
AFUL25	Impulsive (H/V)	DN 25	6.30 m³/h	Cold water	161,93 €	UG	1
AFUL32	Impulsive (H/V)	DN 32	10 m³/h	Cold water	199,63 €	UG	1
AFUL40	Impulsive (H/V)	DN 40	16 m³/h	Cold water	393,11 €	UG	1
AFUL50	Impulsive (H/V)	DN 50	25 m³/h	Cold water	707,97 €	UG	1

■ ACUL



MID

- **Contatore volumetrico per acqua calda sanitaria con uscita impulsiva per installazione in orizzontale e verticale**
- *Volumetric meter for domestic hot water with pulsed output for horizontal and vertical installation*
- **Compteur volumétrique d'eau chaude sanitaire avec sortie impulsive pour installation horizontale et verticale**
- *Volumenzähler für Brauchwarmwasser mit Impulsausgang zur horizontalen und vertikalen Installation*
- **Contador volumétrico para agua caliente sanitaria con salida impulsiva para instalar en horizontal y vertical**

Code	Reading	Size	Q3	Type	Price	Class	Packaging
ACUL25	Impulsive (H/V)	DN 25	6.30 m³/h	Hot water	188,36 €	UG	1
ACUL32	Impulsive (H/V)	DN 32	10 m³/h	Hot water	226,69 €	UG	1
ACUL40	Impulsive (H/V)	DN 40	16 m³/h	Hot water	424,44 €	UG	1
ACUL50	Impulsive (H/V)	DN 50	25 m³/h	Hot water	804,55 €	UG	1

■ CAFSWO-I



MID

- **Contatore volumetrico tipo Woltmann per acqua fredda sanitaria con uscita impulsiva per installazione in orizzontale e verticale**
- *Woltmann volumetric meter for domestic cold water with pulsed output for horizontal and vertical installation*
- **Compteur volumétrique de type Woltmann d'eau froide sanitaire avec sortie impulsive pour installation horizontale et verticale**
- *Volumenzähler vom Typ Woltmann für Brauchkaltwasser mit Impulsausgang zur horizontalen und vertikalen Installation*
- **Contador volumétrico tipo Woltmann para agua fría sanitaria con salida impulsiva para instalar en horizontal y vertical**

Code	Reading	Size	Q3	Type	Price	Class	Packaging
CAFSWO65I	Impulsive (H/V)	DN 65	25 m³/h	Cold water	737,68 €	UG	1
CAFSWO80I	Impulsive (H/V)	DN 80	40 m³/h	Cold water	862,46 €	UG	1
CAFSWO100I	Impulsive (H/V)	DN 100	60 m³/h	Cold water	901,00 €	UG	1
CAFSWO125I	Impulsive (H/V)	DN 125	100 m³/h	Cold water	1.071,65 €	UG	1
CAFSWO150I	Impulsive (H/V)	DN 150	150 m³/h	Cold water	1.255,15 €	UG	1
CAFSWO200I	Impulsive (H/V)	DN 200	250 m³/h	Cold water	2.110,27 €	UG	1

■ CACSWO-I



Factory tested

- **Contatore volumetrico tipo Woltmann per acqua calda sanitaria con uscita impulsiva per installazione in orizzontale e verticale**
- *Woltmann volumetric meter for domestic hot water with pulsed output for horizontal and vertical installation*
- **Compteur volumétrique de type Woltmann d'eau chaude sanitaire avec sortie impulsive pour installation horizontale et verticale**
- *Volumenzähler vom Typ Woltmann für Brauchwarmwasser mit Impulsausgang zur horizontalen und vertikalen Installation*
- **Contador volumétrico tipo Woltmann para agua caliente sanitaria con salida impulsiva para instalar en horizontal y vertical**

Code	Reading	Size	Q3	Type	Price	Class	Packaging
CACSWO65I	Impulsive (H/V)	DN 65	25 m³/h	Hot water	851,45 €	UG	1
CACSWO80I	Impulsive (H/V)	DN 80	40 m³/h	Hot water	897,86 €	UG	1
CACSWO100I	Impulsive (H/V)	DN 100	60 m³/h	Hot water	1.011,56 €	UG	1
CACSWO125I	Impulsive (H/V)	DN 125	100 m³/h	Hot water	1.152,01 €	UG	1
CACSWO150I	Impulsive (H/V)	DN 150	150 m³/h	Hot water	1.459,66 €	UG	1
CACSWO200I	Impulsive (H/V)	DN 200	250 m³/h	Hot water	1.785,70 €	UG	1

**M-BUS pulse adapter**


- **Adattatore di impulsi per convertire l'uscita impulsiva in segnale M-BUS**
- *Pulse adapter to convert the pulsed output into an M-BUS signal*
- **Adaptateur d'impulsions pour convertir la sortie impulsive en signal M-BUS**
- *Impulsadapter zur Umwandlung eines Impulsausgangs in M-BUS-Signal.*
- **Adaptador de impulsos para convertir la salida impulsiva en señal M-BUS**

Code	Size	Price	Class	Packaging
AEW310.2	Impulsive (2 Inputs) >> M-BUS	168,96 €	UG	1
ADA4	Impulsive (4 Inputs) >> M-BUS	266,05 €	UG	1

**WALK-BY pulse adapter**


- **Adattatore di impulsi per convertire l'uscita impulsiva in segnale radio WALK-BY**
- *Pulse adapter to convert the pulsed output into a WALK-BY radio signal*
- **Adaptateur d'impulsions pour convertir la sortie impulsive en signal radio WALK-BY**
- *Impulsadapter zur Umwandlung eines Impulsausgangs in WALK-BY Radiosignal.*
- **Adaptador de impulsos para convertir la salida impulsiva en señal de radio WALK-BY**

Code	Size	Price	Class	Packaging
AEW366.2	Impulsive (2 Inputs) >> Radio WALK-BY	181,20 €	UG	1

**AMR pulse adapter**


- **Adattatore di impulsi per convertire l'uscita impulsiva in segnale radio AMR**
- *Pulse adapter to convert the pulsed output into an AMR radio signal*
- **Adaptateur d'impulsions pour convertir la sortie impulsive en signal radio AMR**
- *Impulsadapter zur Umwandlung eines Impulsausgangs in AMR Radiosignal.*
- **Adaptador de impulsos para convertir la salida impulsiva en señal de radio AMR**

Code	Size	Price	Class	Packaging
AEW36.2	Impulsive (2 Inputs) >> Radio AMR	183,40 €	UG	1

**ACT 20**


- **Software per la programmazione degli adattatori AEW.**
- *Software for AEW adapters programming.*
- **Logiciel pour la programmation des adaptateurs AEW.**
- *Software für die Programmierung der Adapter AEW.*
- **Software para la programación de los adaptadores AEW.**

Code	Price	Class	Packaging
ACT20	308,99 €	UG	1

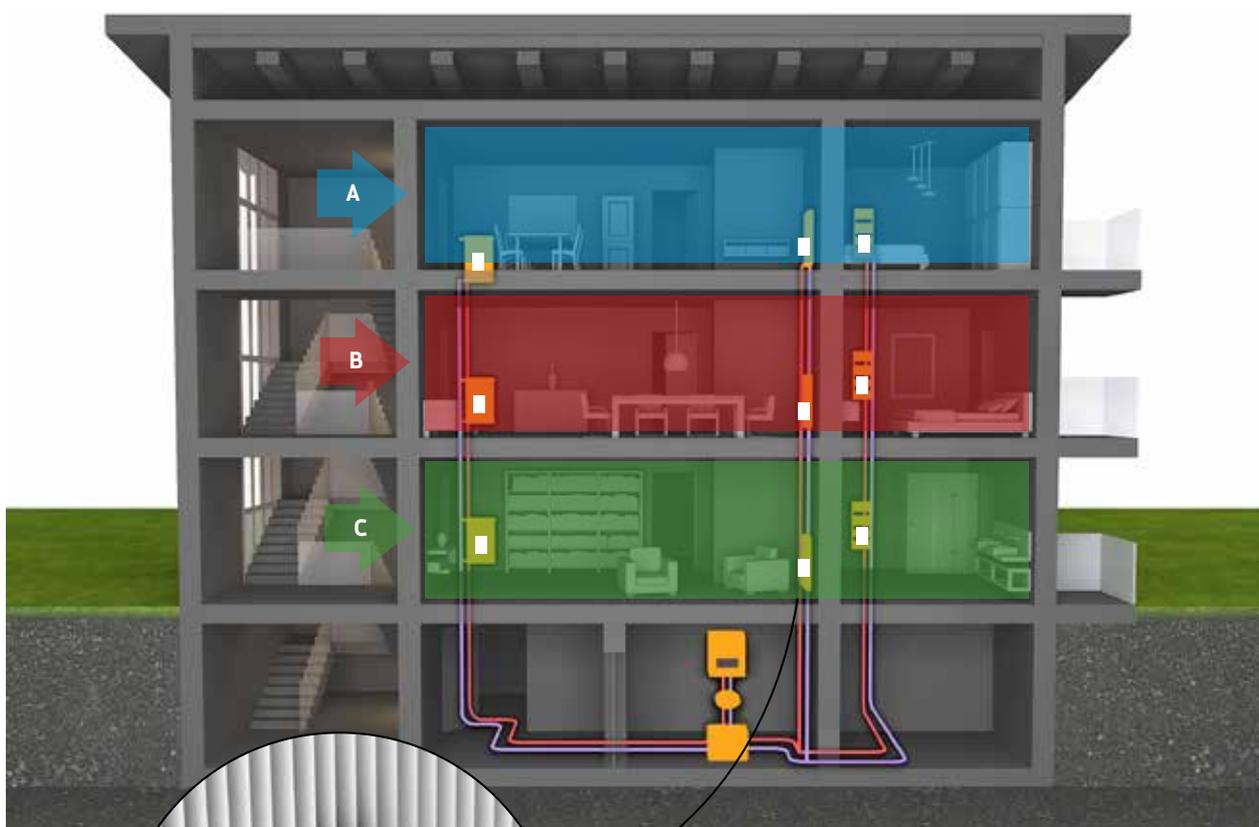
**WFZ-MBM-USB**


- **Cavo per la programmazione degli adattatori AEW.**
- *Cable for AEW adapters programming.*
- **Câble pour la programmation des adaptateurs AEW.**
- *Kabel für die Programmierung der Adapter AEW.*
- **Cable para la programación de los adaptadores AEW.**

Code	Price	Class	Packaging
WFZ-MBM-USB	1.359,02 €	UG	1

Thermoregulation and metering guarantee independent management and transparency in the measurement of consumption for central heating systems in apartment buildings. In vertical distribution systems, heat distributors are used for metering purposes, which, when programmed based on the characteristics of the heating unit, count units in proportion to consumption. IVAR offers a complete range of heat distributors in compliance with EN 834 and accessories for programming, installation, data centralisation and reading. Thermoregulation is entrusted to thermostatic valves with low thermal inertia or to the smart CUBODOMO® system.

**Thermoregulation** makes individual management (unit A - B - C) of each person's comfort conditions possible. These conditions are chosen by the user and maintained automatically by the control system. **Metering** makes it possible to monitor consumption levels and to pay the main share of the heating expenditure on the basis of those levels.



## HEAT COST ALLOCATOR

This is an EN 834-compliant device for indirect metering of heating consumption.

It is programmed according to the characteristics of the specific radiator before installation so that there is proportionality between the metering and the energy consumed.

Communications can occur in two distinct modes: S-mode and C-mode (parallel transmission of AMR and Walk-by telegrams).

**Q5.5 C-mode**


- Ripartitore di calore a due sensori - modalità Walk-by e AMR in C-mode.
- Walk-by and AMR heat cost allocator in C-mode with 2 sensors.
- Répartiteur de chaleur Walk-by et AMR en C-mode avec 2 capteurs.
- Walk-by und AMR Heizkostenverteiler in C-Mode mit 2 Fühlern.
- Repartidores de costes de calefacción Walk-by y AME en C-mode con 2 sensores.

Code	Size	Price	Class	Packaging
551004	2 SENSORS - WALK-BY/AMR - C mode	98,17 €	UC	1

**AMU 15**


- Basetta per la programmazione dei ripartitori privi di interfaccia ottica IrDA.
- Base for heat cost allocator programming without IrDA optical interface.
- Plaque pour la programmation des répartiteurs dépourvus d'interface optique IrDA.
- Klemmbrett für die Programmierung der Verteiler ohne optische Schnittstelle IrDA.
- Placa para la distribución de los repartidores que no disponen de interfaz óptica IrDA.

Code	Price	Class	Packaging
HCAP-H001-001	391,88 €	UC	1

**WFZ-IrDA-USB**


- Cavo con interfaccia ottica per la programmazione dei contatori HMR e dei ripartitori. Connessione USB.
- Cable with optical interface for HMR meters and heat cost allocators programming. USB connection.
- Câble avec interface optique pour la programmation des compteurs HMR et des répartiteurs. Connexion USB.
- Kabel mit optischer Schnittstelle für die Programmierung der Zähler HMR und der Verteiler. USB-Verbindung.
- Cable de interfaz óptica para la programación de los contadores HMR y los repartidores. Conexión USB.

Code	Price	Class	Packaging
WFZ-IRDA-USB	517,28 €	UG	1

**WSW5 S**


- Software per la programmazione di contatori HMR e ripartitori di calore.
- Software for HMR meters and heat cost allocator programming.
- Logiciel pour la programmation compteurs HMR et répartiteurs de chaleur.
- Software für die Zähler HMR und Wärmeverteiler-Programmierung.
- Software para la programación de los contadores HMR y repartidores de costes de calefacción.

Code	Price	Class	Packaging
WSW5-00CABCG	85,72 €	UG	1

**WSW5 DB**


- Database KC per la programmazione dei ripartitori di calore.
- KC database for heat cost allocator programming.
- Database KC pour la programmation des répartiteurs de chaleur.
- Database KC für die Wärmeverteiler-Programmierung.
- Database KC para la programación de los repartidores de costes de calefacción.

Code	Price	Class	Packaging
WSW5-00KCBCG	85,91 €	UG	1



• Radio WALK-BY >> p. 605



• Radio AMR >>p. 608

■ AMU 05



- Sigillo antimanomissione piastra di fissaggio.
- Fixing plate tamper evident seal.
- Scellé anti-altération de la plaque de fixation.
- Versiegelung Beschädigungsschutz Befestigungsplatte
- Precinto contra las manipulaciones indebidas de la placa de fijación.

Code	Price	Class	Packaging
551081	0,56 €	UC	1

■ KSPR



- Kit di supporto a parete per ripartitore con sensore remoto.
- Wall mounting kit for heat cost allocators with remote sensor.
- Kit pour montage mural pour les répartiteurs équipés de capteur à distance.
- Bausatz für die Wandmontage für Heizkostenverteiler mit Fernfühler.
- Kit de montaje en pared para repartidores con sensor de distancia.

Code	Price	Class	Packaging
551024	6,59 €	UC	1

■ AMS 01



- Dado con codolo per montaggio a saldatura.
- Nut with a shank for welded assembly.
- Embout à écrou pour montage à souder.
- Mutter mit Schaft für Schweißmontage.
- Tuerca con espiga para el montaje con soldadura.

Code	Size	Price	Class	Packaging
551043	M3 x 3 mm	0,94 €	UC	1
551044	M3 x 6 mm	0,94 €	UC	1
551045	M3 x 9,5 mm	1,12 €	UC	1

■ AMS 02



- Rondella per montaggio a saldatura.
- Washer for welded assembly.
- Rondelle pour montage à souder.
- Unterlegscheibe für Schweißmontage.
- Arandela para el montaje con soldadura.

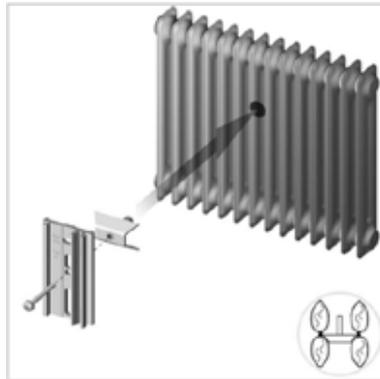
Code	Size	Price	Class	Packaging
551083	M4	0,09 €	UC	1

## Q5 FIXING KITS

### Q5 FIX 008



Code	Price	Class	Packaging
551008	7,35 €	UC	1



### Q5 FIX 009



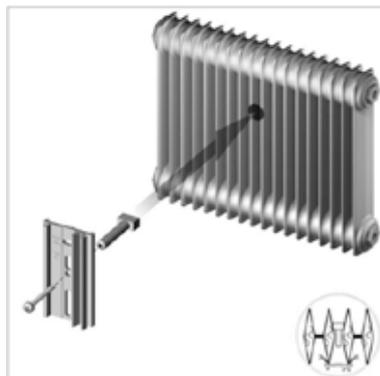
Code	Price	Class	Packaging
551009	30,56 €	UC	1



### Q5 FIX 010



Code	Price	Class	Packaging
551010	17,73 €	UC	1



### Q5 FIX 011



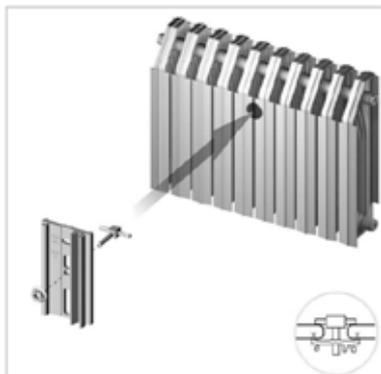
Code	Price	Class	Packaging
551011	12,08 €	UC	1



■ Q5 FIX 012



Code	Price	Class	Packaging
551012	9,08 €	UC	1



■ Q5 FIX 013



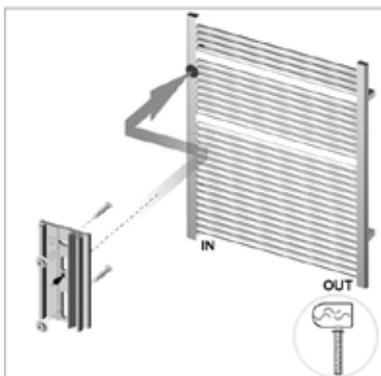
Code	Price	Class	Packaging
551013	24,52 €	UC	1



■ Q5 FIX 014



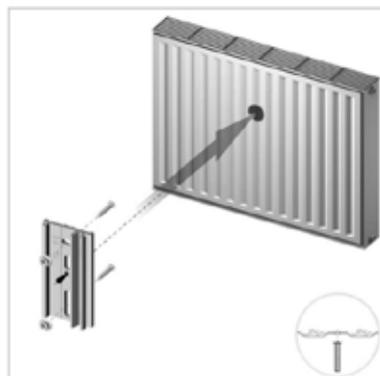
Code	Price	Class	Packaging
551014	6,03 €	UC	1



■ Q5 FIX 015



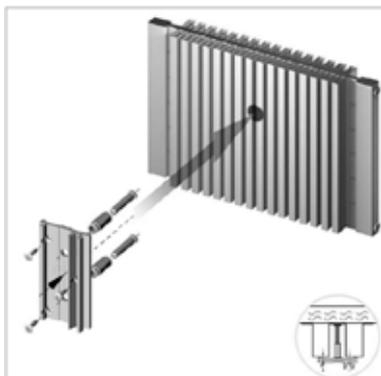
Code	Price	Class	Packaging
551015	6,03 €	UC	1



■ Q5 FIX 016



Code	Price	Class	Packaging
551016	48,85 €	UC	1



■ Q5 FIX 017

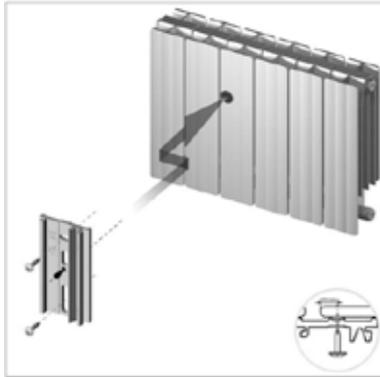


Code	Price	Class	Packaging
551017	7,16 €	UC	1

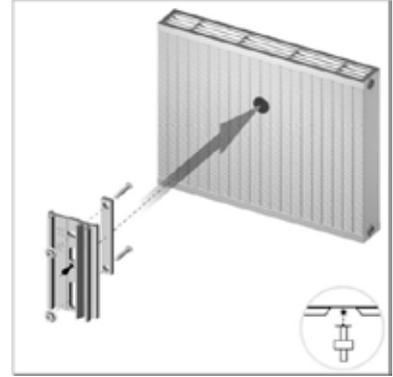


**Q5 FIX 018**

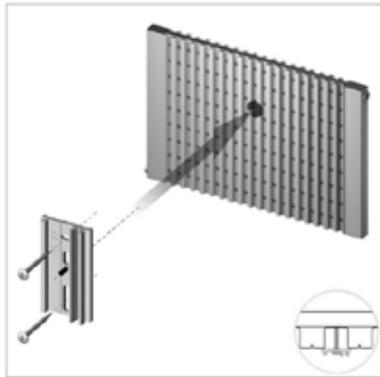

Code	Price	Class	Packaging
551018	5,85 €	UC	1


**Q5 FIX 019**


Code	Price	Class	Packaging
551019	29,99 €	UC	1


**Q5 FIX 020**

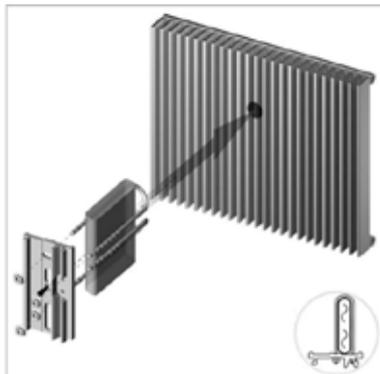

Code	Price	Class	Packaging
551020	5,85 €	UC	1


**Q5 FIX 021**


Code	Price	Class	Packaging
551021	9,82 €	UC	1


**Q5 FIX 022**


Code	Price	Class	Packaging
551022	31,67 €	UC	1


**Q5 FIX 023**


Code	Price	Class	Packaging
551023	10,20 €	UC	1



■ AMU 01



- Sensore remoto (posizionamento su radiatore).
- Remote sensor (positioning on radiator).
- Capteur à distance (positionnement sur radiateur).
- Fernfühler (Positionierung am Radiator)
- Sensor remoto (colocación en radiadores).

Code	Length	Price	Class	Packaging
551025	1.50 m	39,63 €	UC	1
551026	2.50 m	47,17 €	UC	1
551027	5 m	67,94 €	UC	1

■ AMU 10



- Coperchio di sicurezza per corpo sensore.
- Safety cover for sensor body.
- Couvercle de sécurité pour corps capteur.
- Sicherheitsabdeckung für Sensorkörper
- Tapa de seguridad para el cuerpo del sensor.

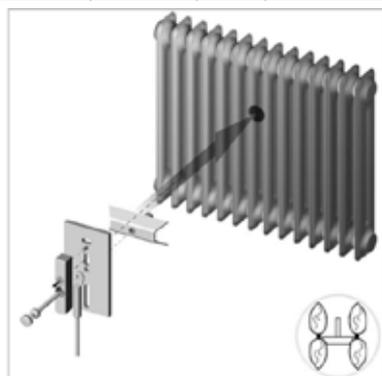
Code	Price	Class	Packaging
551082	1,88 €	UC	1

## AMU 01 FIXING KITS

■ AMU 01 FIX 028



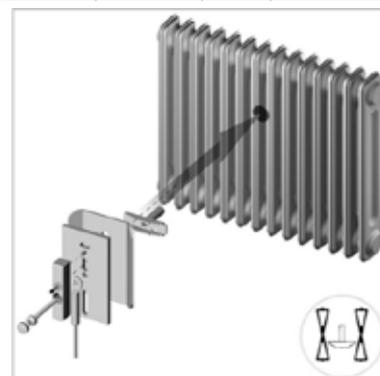
Code	Price	Class	Packaging
551028	45,68 €	UC	1



■ AMU 01 FIX 029



Code	Price	Class	Packaging
551029	69,07 €	UC	1



■ AMU 01 FIX 030



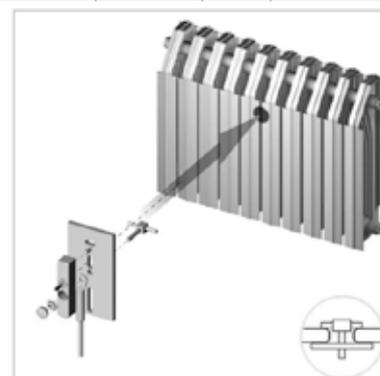
Code	Price	Class	Packaging
551030	45,68 €	UC	1



■ AMU 01 FIX 031



Code	Price	Class	Packaging
551031	50,59 €	UC	1

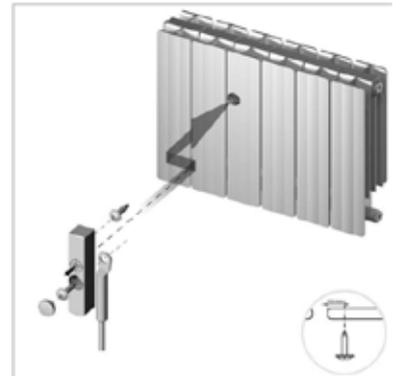


**AMU 01 FIX 032**

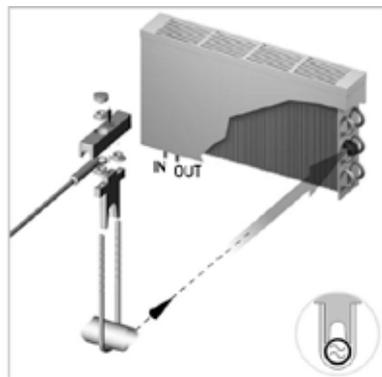

Code	Price	Class	Packaging
551032	3,61 €	UC	1


**AMU 01 FIX 033**


Code	Price	Class	Packaging
551033	3,41 €	UC	1


**AMU 01 FIX 034**


Code	Price	Class	Packaging
551034	16,05 €	UC	1


**AMU 01 FIX 035**


Code	Price	Class	Packaging
551035	48,48 €	UC	1


**AMU 01 FIX 036**


Code	Price	Class	Packaging
551036	48,10 €	UC	1

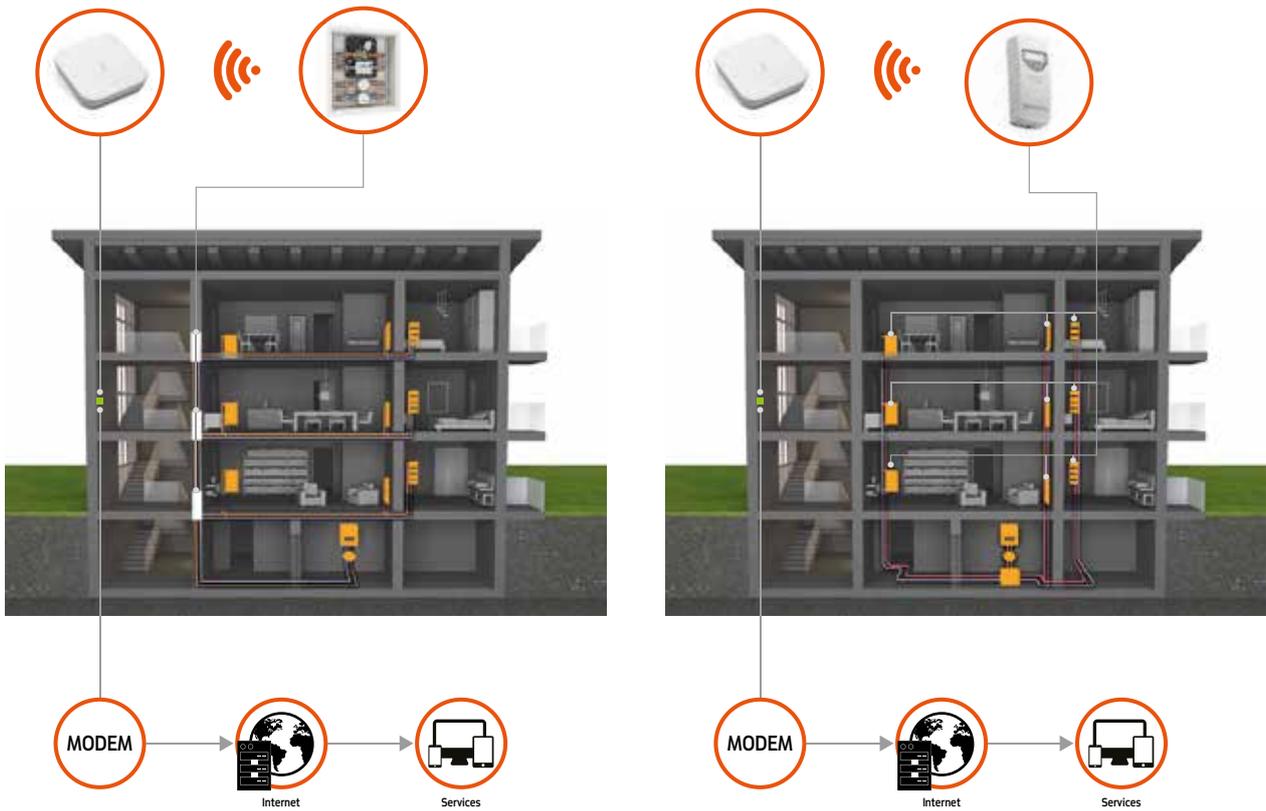


# DATA CENTRALISATION

In small plants, personnel can read consumption data directly from the individual meters/distributors. On the other hand, in large buildings, where there are numerous metering devices, it is advisable to centralise the data in a single collection point. This strategy not only makes reading operations much easier it also eliminates the age-old problem of access to private homes and offers security and flexibility for billing management.

The concentration of data at one point requires the use of measuring instruments and centralisation devices suitable for the chosen solution, which can be with M-BUS or radio data transmission (AMR or Walk-By).

IVAR is also able to provide consultation and data processing services through its IVAR CLOUD dedicated portal.



## Direct metering

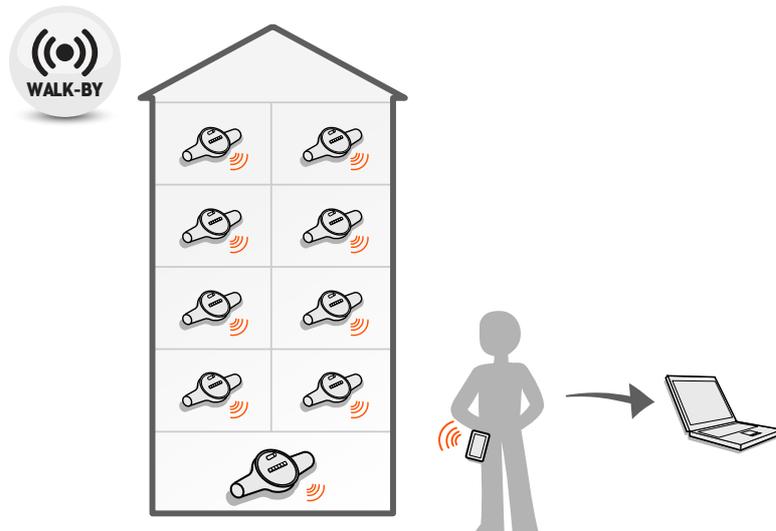
Systems, where the heat consumed can be measured by the housing unit at a single point, are metered at the connections between the boiler and the distribution manifold.

## Indirect metering

Vertical distribution systems with more than one input/output to a user component are metered at the level of the individual radiator

## IVAR CLOUD





### WALK-BY SYSTEM

The WALK-BY reading system is still based on wireless communication, but unlike AMR technology, the WALK-BY system does not require the installation of antennas in the building's stairwell. However, an operator will have to go near the building to make the reading using special equipment (Qlog). The advantage is that reading is convenient without installing additional devices, but at the same time, there is the disadvantage of having to go on site to take the readings.

There are two modes of radio transmission of WALK-BY devices (also AMR):

**S-mode:** the devices wake up and transmit for 10 hours a day on the first 4 days of the month or for 48 consecutive days after a specified reference day.

**C-mode:** Devices transmit for 10 hours each day, 365 days a year.

The new Q-log antenna can read both transmission modes. Therefore, it can be used both in buildings with already installed distributors operating in S-mode and in new ones operating in C-mode.

#### Qlog



- **Antenna mobile per lettura Walk-by in modalità S-mode e C-mode.**
- *Mobile antenna for Walk-by reading in S-mode e C-mode.*
- **Antenne mobile pour la lecture Walk-by en modalit  S-mode et C-mode.**
- *Mobilantenne f r Ablesung Walk-by in S-mode und C-mode.*
- **Antena m vil por la lectura Walk-by en modalidad S-mode y C-mode.**

Code	Size	Price	Class	Packaging
Qlog	Radio Walk-by S-mode/C-mode	1.633,55 �	UG	1

#### ACT46



- **Software per la lettura dei dispositivi Walk-by.**
- *Software for Walk-by devices reading.*
- **Logiciel pour la lecture des dispositifs Walk-by.**
- *Software f r die Ablesung der Vorrichtungen Walk-by.*
- **Software para la lectura de los dispositivos Walk-by.**

Code	Price	Class	Packaging
ACT46-PC	On request	UG	1

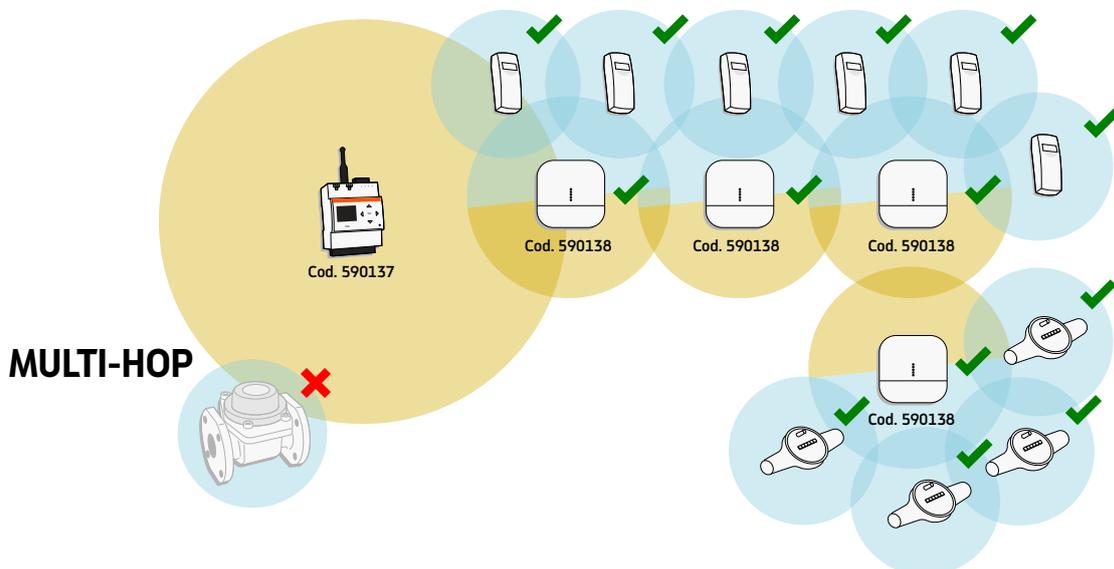
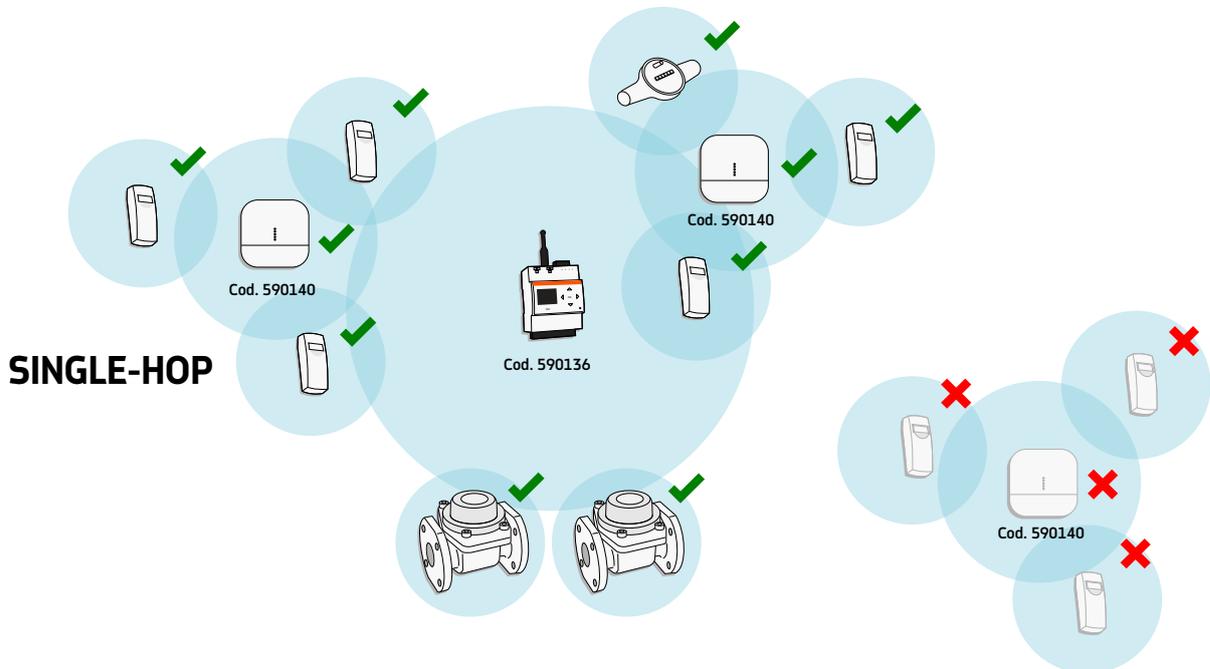


**AMR RADIO SYSTEM**

The AMR radio system provides for wireless communication between the installed measurement devices and the data collection devices. IVAR offers two different opportunities for backbone construction: a single-hop mode and a multi-hop mode.

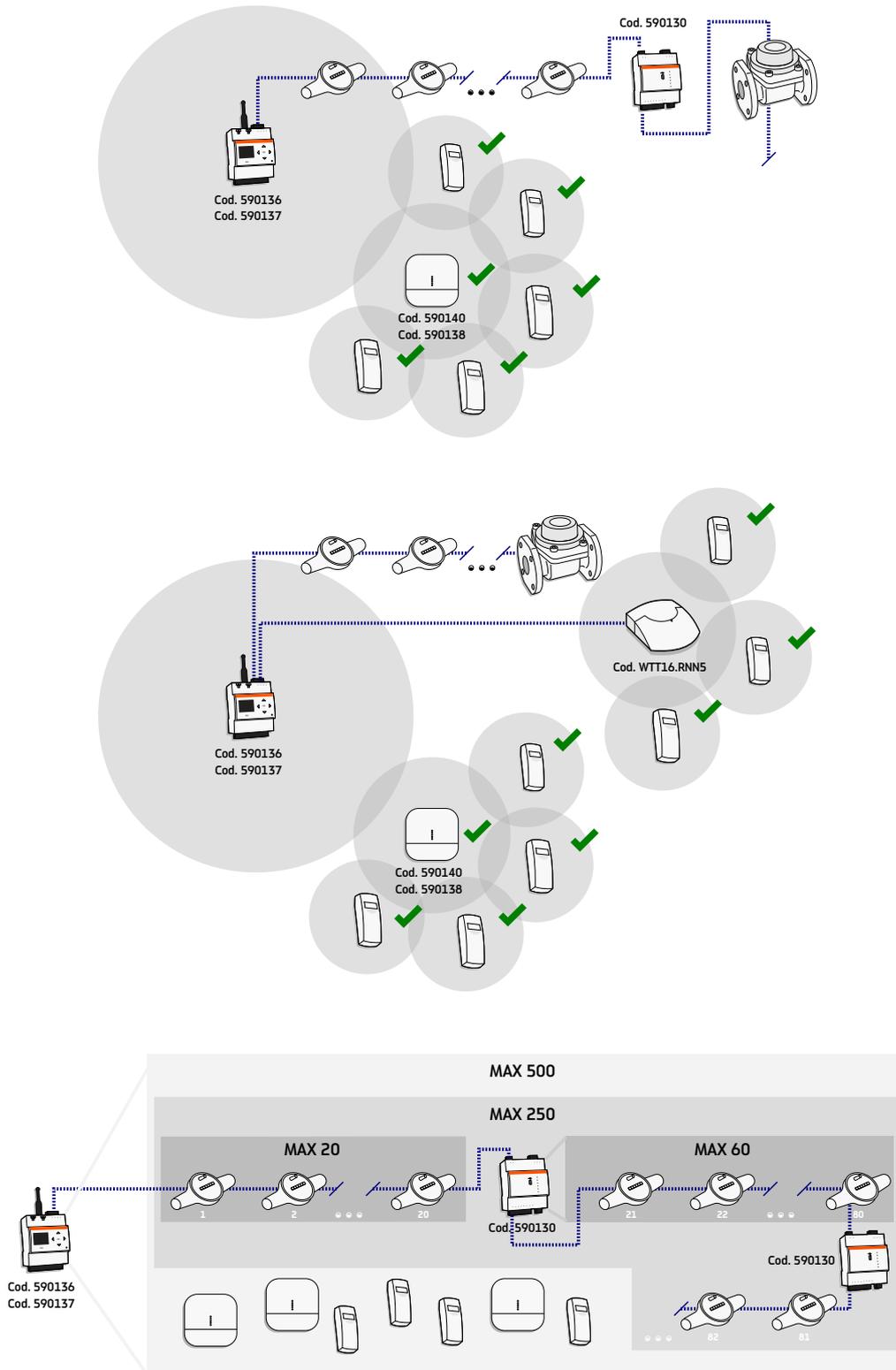
The single-hop mode is essentially based on two devices that work using standard procedures allowed by the W-MBUS: it is a repeater (code 590140) and a gateway (code 590136). Both items are able to receive data from devices (meters, distributors, pulse adapters, etc.) installed up to a maximum limit of 500 wireless devices on the network created. The only limit is represented by the size of the network: the connection between gateway and repeater can only take place if it is direct between the two devices. Actually, it is not possible to create a backbone in which several repeaters connect to each other and then to the gateway. This feature makes the single-hop system suitable for small apartment buildings.

The multi-hop mode is also based on two devices, namely a repeater (code 590138) and a gateway (code 590137). Nevertheless, this technology is freed from the wireless M-BUS in the construction of the backbone and, thanks to a proprietary and enhanced transmission mode, each repeater (and only the repeaters) is able to receive consumption information from the installed devices and exchange it via a mesh network with the other nodes (repeaters) until it reaches the gateway. Also in this case, no more than 500 devices can be read by radio.



Both systems are compatible with the standard W-MBUS transmission modes and are therefore able to read devices made by other manufacturers (provided they communicate in W-MBUS) whether in T, S or C modes. Furthermore, both gateways are hybrids. They can read up to 500 wireless devices, but have an M-BUS port that allows the direct wired connection of up to 20 M-BUS meters, which is expandable up to 250 using special level converters (code 590130) or WTT16.RNN5 antennas.

Each gateway can be read locally or remotely by internet connection (in case there is no ADSL, a router is provided).



**RPT1H**



- **Repeater unidirezionale single-hop wireless M-BUS.**
- *Repeater unidirectional single-hop wireless M-BUS.*
- **Répéteur unidirectionnel à un seul bond sans fil M-BUS.**
- *Unidirektionaler drahtloser Single-Hop Repeater M-BUS.*
- **Repetidor unidireccional single-hop inalámbrico M-BUS.**

Code	Reading	Price	Class	Packaging
590140	C/S mode compatible	566,38 €	UG	1

**GWY1H**



- **Gateway single-hop wireless M-BUS.**
- *Gateway single-hop wireless M-BUS.*
- **Passerelle à un seul bond sans fil M-BUS.**
- *Drahtloses Single-Hop Gateway M-BUS.*
- **Gateway single-hop inalámbrico M-BUS.**

Code	Reading	Price	Class	Packaging
590136	C/S mode compatible (max 500 devices)	1.872,91 €	UG	1

**RPTMH**



- **Repeater multi-hop wireless M-BUS.**
- *Repeater multi-hop wireless M-BUS.*
- **Répéteur à plusieurs bonds sans fil M-BUS.**
- *Drahtloser Multi-Hop Repeater M-BUS.*
- **Repetidor multi-hop inalámbrico M-BUS.**

Code	Reading	Price	Class	Packaging
590138	C/S mode compatible	757,55 €	UG	1

**GWYMH**



- **Gateway multi-hop wireless M-BUS.**
- *Gateway multi-hop wireless M-BUS.*
- **Passerelle à plusieurs bonds sans fil M-BUS.**
- *Drahtloses Multi-Hop Gateway M-BUS.*
- **Gateway multi-hop inalámbrico M-BUS.**

Code	Reading	Price	Class	Packaging
590137	C/S mode compatible (max 500 devices)	1.872,58 €	UG	1



- Alimentatore 24 V DC >> p. 611
- 24 V DC power supply >> p. 611
- Alimentateur 24 V DC >> p. 611
- Netzteil 24 V DC >> p. 611
- Alimentador de 24 V CC >> p. 611



- Router >> p. 611

**WT**


- **Antenna ricetrasmittente radio AMR. Possibilità di centralizzazione e lettura in M-BUS**
- *AMR radio transmitter-receiver antenna. Option of centralising and reading via M-BUS*
- **Antenne récepteur-émetteur radio AMR. Possibilité de centralisation et lecture en M-BUS.**
- *Sende-Empfangs-Radioantenne AMR. Möglichkeit zur Zentralisierung und Ablesung in M-BUS*
- **Antena transmisora/receptora de radio AMR. Posibilidad de centralización y de lectura en M-BUS**

Code	Size	Price	Class	Packaging
WTT16.RNN5	Max. 500 devices - Battery powered - USB	571,75 €	UG	1

**ACT 27**


- **Cavetto con interfaccia USB per la lettura e programmazione locale delle antenne RNN5.**
- *Cable with USB interface for local reading and programming of RNN5 antennas.*
- **Câble avec interface USB pour la lecture et la programmation locale des antennes RNN5.**
- *Kabel mit Schnittstelle USB für die lokale Ablesung und Programmierung der Antennen RNN5.*
- **Cable de interfaz USB para la lectura y la programación local de las antenas RNN5.**

Code	Price	Class	Packaging
RNNPH0010010	657,49 €	UG	1

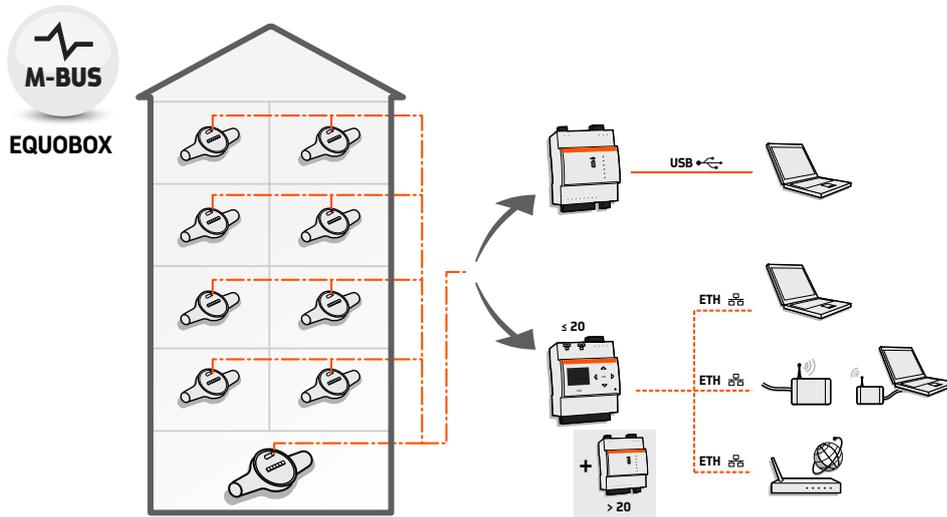
**ACT 26**


- **Tool di service per la formazione del network e lettura locale dei dispositivi.**
- *Service tool for the network creation and devices local reading.*
- **Outil de service pour la formation du réseau et la lecture locale des dispositifs.**
- *Service Tool für die Bildung des Netzes und der lokalen Ablesung.*
- **Tool de servicio para la formación de la red y la lectura local de los dispositivos.**

Code	Price	Class	Packaging
ACT26	1.044,67 €	UG	1

**M-BUS SYSTEMS**

The M-BUS communications protocol is one of the most frequently used in of direct metering system installations with heat meters and domestic water flowmeters. This is an open system, in compliance with the EN 1434-3 European standard, which provides for the wiring between the various devices (in branch configuration, star configuration or in line) until a collection point is reached where the data concentrator is located. This device allows the individual instruments installed along the backbone to be read, thus facilitating consumption data collection operations.



The EQUOBOX system is essentially characterised by its modularity and by how easy and intuitive it is to use. The system is based on three modules that can be combined to create more and more complex architectures.

The modules are:

- Unit B10, which is a central unit, includes a display and data logger function for data acquisition and archiving. With this unit, up to 20 devices can be read through an M-BUS protocol and it is expandable to read up to 250 device loads by adding an appropriate Level Converter (B12)
- Unit B11, which is a central unit, includes a display and data logger function. As a standalone product, it cannot read devices as it requires an appropriate Level Converter for device reading. The advantage it offers over a simple Level Converter is its ability to read data remotely (by modem or directly on the Internet) and to provide an historical archive of consumption data.
- The B12 Level Converter is a device that allows the actual reading of M-BUS devices. Each Level Converter can read up to 60 devices. However, it is expandable by connecting other Level Converters, which can also act as repeaters in the case of particularly large backbones. This device has no display, but allows local reading via PC, USB interface and free reading software. Data archiving is not possible.

**B10**


- **Unità centrale per la lettura di 20 carichi. Espandibile fino a 250 indirizzi mediante Level Converters.**
- *Central unit for reading 20 loads. Expandable up to 250 addresses by means of Level Converters.*
- **Unité centrale pour la lecture de 20 charges. Expansible jusqu'à 250 adresses à travers des convertisseurs de niveaux.**
- *Zentraleinheit für das Auslesen von 20 Geräten. Mit Level Convertern auf bis zu 250 Adressen erweiterbar.*
- **Unidad central para la lectura de 20 cargas. Puede ampliarse hasta 250 direcciones mediante la instalación de Level Converters.**

Code	Size	Price	Class	Packaging
590132	24 VAC – 7,5 W	1.854,88 €	UG	1

**B11**


- **Unità centrale. Possibilità di leggere fino a 250 indirizzi con aggiunta di moduli Level Converters.**
- *Central unit. Possibility of reading up to 250 addresses with the addition of Level Converters.*
- **Unité centrale. Possibilité de lire jusqu'à 250 adresses grâce à l'ajout de modules convertisseurs de niveaux.**
- *Zentraleinheit. Möglichkeit zum Auslesen von bis zu 250 Adressen durch das Hinzufügen von Level-Converter-Modulen.*
- **Unidad central. Posibilidad de leer hasta 250 direcciones añadiendo los módulos Level Converters.**

Code	Size	Price	Class	Packaging
590131	24 VAC – 3 W	1.475,41 €	UG	1

**B12**


- **Modulo Level Converter per la lettura di 60 carichi.**
- *Level Converter for reading 60 loads.*
- **Module convertisseur de niveaux pour la lecture de 60 charges.**
- *Level-Converter-Modul für das Auslesen von 60 Geräten.*
- **Módulo Level Converter para la lectura de 60 cargas.**

Code	Reading	Size	Price	Class	Packaging
590130	C/S mode compatible (max 500 devices)	24 VAC – 12 W	930,53 €	UG	1

**AB10**

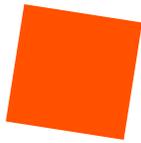

- **Alimentatore 24 V DC.**
- *24 V DC power supply.*
- **Alimentateur 24 V DC.**
- *Netzteil 24 V DC.*
- **Alimentador de 24 V CC.**

Code	Size	Price	Class	Packaging
590133	24 VDC – 15 W	127,27 €	UG	1
590134	24 VDC – 60 W	156,69 €	UG	1

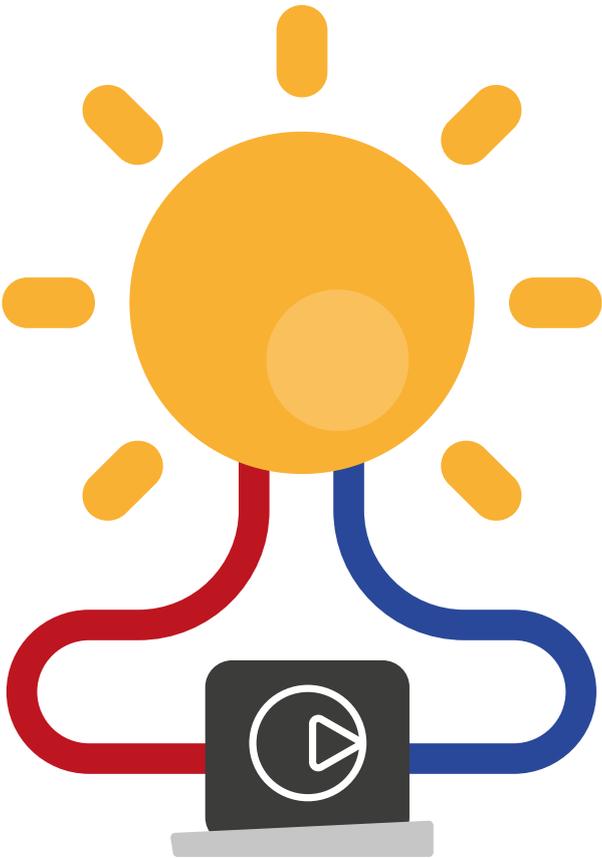
**MOD 02**


- **Router per la lettura remota delle unità centrali.**
- *Router for remote reading of the central units.*
- **Router pour la lecture à distance des unités centrales.**
- *Router für das Fernauslesen der Zentraleinheiten.*
- **Router para la lectura a distancia de las unidades centrales.**

Code	Price	Class	Packaging
590135	729,93 €	UG	1



# SOLAR SYSTEMS



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**Régulateurs électroniques**  
*Elektronische Regler*  
**Reguladores electrónicos**

620



**Accessori per gruppi di circolazione e sistemi solari**  
*Accessories for circulation groups and solar systems*  
**Accessoires pour groupes de circulation et systèmes solaires**  
*Zubehör für Zirkulationseinheiten und Solarsysteme*  
**Accesorios para grupos de circulación y sistemas solares**

621



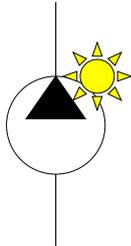
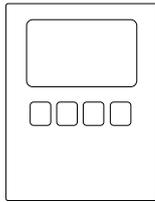
**Tubazioni e raccorderia**  
*Pipes and fittings*  
**Tuyaux et raccords**  
*Rohre und Verbinder*  
**Tuberías y accesorios**

623



# CIRCULATION GROUPS

Pumping stations for forced circulation systems come in three sizes with delivery and return lines complete with accessories. The smaller size is also available with only the pumping line. The IVAR offer is completed with a unit for mechanical stratification with external heat exchanger. See the section "Electronic regulators" to find the most suitable regulation control unit, as shown in the following table.

ErP	
	
GP6010E	10303 - 16305
GP7000E	10303 - 16305
GP7000WE	10303 - 16305
GP8000E/KE	16305
GP8000FE/GP8000FKE	10303 - 16305
GP9000HXE	17403

## GP6010E



ErP

- Gruppo di circolazione monovia con flussimetro e circolatore ad alta efficienza (PWM).
- Single way circulation group with flow meter and high efficiency pump (PWM).
- Groupe de circulation à une voie avec débit-mètre et pompe à haut rendement (PWM).
- Ein-weg-Zirkulationseinheit mit Durchflussmesser und Pumpe mit hoher Effizienz (PWM).
- Grupo de circulación de una vía con medidor de caudal y bomba alta eficiencia (PWM).

Code	Ways	Size	Range	Pump type	Price	Class	Packaging
GP6010E	1	3/4" F	2-12 l/min	Variable speed (PWM)	604,16 €	Z6	1

## GP7000E



ErP

- Gruppo di circolazione a due vie con flussimetro e circolatore ad alta efficienza (PWM).
- Two way circulation group with flow meter and high efficiency pump (PWM).
- Groupe de circulation a deux voies avec débit-mètre et pompe à haut rendement (PWM).
- 2-wege-Zirkulationseinheit mit Durchflussmesser und Pumpe mit hoher Effizienz (PWM).
- Grupo de circulación de dos vías con medidor de caudal y bomba alta eficiencia (PWM).

Code	Ways	Size	Range	Pump type	Price	Class	Packaging
GP7000E	2	3/4" F	2-12 l/min	Variable speed (PWM)	709,03 €	Z6	1

**GP7000WE**



- Gruppo di circolazione a due vie con flussimetro e circolatore ad alta efficienza (PWM).
- Two way circulation group with flow meter and high efficiency pump (PWM).
- Groupe de circulation a deux voies avec débit-mètre et pompe à haut rendement (PWM).
- 2-wege-Zirkulationseinheit mit Durchflussmesser und Pumpe mit hoher Effizienz (PWM).
- Grupo de circulación de dos vías con medidor de caudal y bomba alta eficiencia (PWM).

Code	Ways	Size	Range	Pump type	Price	Class	Packaging
GP7000WE	2	1" F	8-28 l/min	Variable speed (PWM)	768,21 €	Z6	1

**GP8000E**



- Gruppo di circolazione a due vie per campi solari di grandi dimensioni con circolatore ad alta efficienza (PWM).
- Two way circulation group for big solar fields with high efficiency pump (PWM).
- Groupe de circulation a deux voies pour des grands champs solaires avec pompe à haut rendement (PWM).
- 2-wege-Zirkulationseinheit für große Solarfelder mit Pumpe mit hoher Effizienz (PWM).
- Grupo de circulación de dos vías para grandes campos solares con bomba alta eficiencia (PWM).

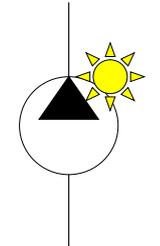
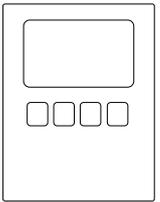
Code	Size	Range	Accessories	Pump type	Price	Class	Packaging
GP8000E	1"1/4 F			Variable speed (PWM)	2.001,34 €	Z6	1
GP8000KE	1"1/4 F		Modular installation kit	Variable speed (PWM)	2.073,78 €	Z6	1
GP8000FE	1"1/4 F	20-70 l/min	Flow meter	Variable speed (PWM)	2.246,25 €	Z6	1
GP8000FKE	1"1/4 F	20-70 l/min	Modular installation kit + flow meter	Variable speed (PWM)	2.318,74 €	Z6	1

**GP9000HXE**



- Gruppo solare per grandi portate con scambiatore di calore, sistema di stratificazione meccanica e circolatore ad alta efficienza (PWM).
- Solar group for large flow rates with heat exchanger, mechanical stratification system and high efficiency pump (PWM).
- Station solaire pour haut débit avec échangeur de chaleur, système de stratification mécanique et pompe à haut rendement (PWM).
- Solarstation für hohe Durchflussraten mit Wärmetauscher, mechanische Lagensystem und Pumpe mit hoher Effizienz (PWM).
- Grupo solar para grandes caudales con intercambiador de calor, sistema de estratificación mecánica y bomba alta eficiencia (PWM).

Code	Size	Range	Pump type	Price	Class	Packaging
GP9000HXE	1"1/4 F flat seal	20-70 l/min	Variable speed (PWM)	4.849,57 €	Z6	1

	
	
GP6010	13300
GP7000	13300
GP7000W	13300
GP8000/K	13300
GP8000F/FK	10300 - 13300
GP9000HX	14300S

### GP6010



- Gruppo di circolazione monovia con flussimetro e pompa standard a 3 velocità.
- Single way circulation group with flow meter and standard 3-speed pump.
- Groupe de circulation à une voie avec débit-mètre et pompe standard à 3 vitesses.
- Ein-weg-Zirkulationseinheit mit Durchflussmesser und Standardpumpe mit 3 Geschwindigkeiten.
- Grupo de circulación de una vía con medidor de caudal y bomba estándar de 3 velocidades.

Code	Ways	Size	Range	Pump type	Price	Class	Packaging
GP6010	1	3/4" F	2-12 l/min	3-speed	505,79 €	Z6	1

### GP7000



- Gruppo di circolazione a due vie con flussimetro e pompa standard a 3 velocità.
- Two way circulation group with flow meter and standard 3-speed pump.
- Groupe de circulation a deux voies avec débit-mètre et pompe standard à 3 vitesses.
- 2-wege-Zirkulationseinheit mit Durchflussmesser und Standardpumpe mit 3 Geschwindigkeiten.
- Grupo de circulación de dos vías con medidor de caudal y bomba estándar de 3 velocidades.

Code	Ways	Size	Range	Pump type	Price	Class	Packaging
GP7000	2	3/4" F	2-12 l/min	3-speed	612,96 €	Z6	1

**GP7000W**


- Gruppo di circolazione a due vie con flussimetro e pompa standard a 3 velocità.
- Two way circulation group with flow meter and standard 3-speed pump.
- Groupe de circulation a deux voies avec débit-mètre et pompe standard à 3 vitesses.
- 2-wege-Zirkulationseinheit mit Durchflussmesser und Standardpumpe mit 3 Geschwindigkeiten.
- Grupo de circulación de dos vías con medidor de caudal y bomba estándar de 3 velocidades.

Code	Ways	Size	Range	Pump type	Price	Class	Packaging
GP7000W	2	1" F	8-28 l/min	3-speed	704,08 €	Z6	1

**GP8000**


- Gruppo di circolazione a due vie per campi solari di grandi dimensioni con pompa standard a 3 velocità.
- Two way circulation group for big solar fields with standard 3-speed pump.
- Groupe de circulation a deux voies pour des grands champs solaires avec pompe standard à 3 vitesses.
- 2-wege-Zirkulationseinheit für große Solarfelder mit Standardpumpe mit 3 Geschwindigkeiten.
- Grupo de circulación de dos vías para grandes campos solares con bomba estándar de 3 velocidades.

Code	Size	Range	Accessories	Pump type	Price	Class	Packaging
GP8000	1"1/4 F			3-speed	1.783,98 €	Z6	1
GP8000K	1"1/4 F		Modular installation kit	3-speed	1.856,42 €	Z6	1
GP8000F	1"1/4 F	20-70 l/min	Flow meter	3-speed	2.028,89 €	Z6	1
GP8000FK	1"1/4 F	20-70 l/min	Modular installation kit + flow meter	3-speed	2.101,38 €	Z6	1

**GP9000HX**


- Gruppo solare per grandi portate con scambiatore di calore incorporato, sistema di stratificazione meccanica e pompa standard a 3 velocità.
- Solar group for large flow rates with incorporated heat exchanger, mechanical stratification system and standard 3-speed pump.
- Station solaire pour haut débit avec échangeur de chaleur intégré, système de stratification mécanique et pompe standard à 3 vitesses.
- Solarstation für hohe Durchflussraten mit integriertem Wärmetauscher, mechanische Lagensystem und Standardpumpe mit 3 Geschwindigkeiten.
- Grupo solar para grandes caudales con intercambiador de calor incorporado, sistema de estratificación mecánica y bomba estándar de 3 velocidades.

Code	Size	Range	Pump type	Price	Class	Packaging
GP9000HX	1"1/4 F flat seal	20-70 l/min	3-speed	4.375,73 €	Z6	1

# ELECTRONIC CONTROL UNITS

## IS1-E



- **Regolatore per avviamento e spegnimento pompa solare ad alta efficienza su base differenziale.**
- *Controller for on/off regulation of high efficiency solar pump based on differential temperature.*
- **Unité de contrôle pour démarrer et arrêter la pompe solaire à haut rendement selon base différentielle.**
- *Steuereinheit zum Starten und Stoppen der Pumpe mit hoher Effizienz nach Differenzbasis.*
- **Regulador para encendido y apagado de bomba solar con alta eficiencia sobre base diferencial.**

Code	Size	Module	Price	Class	Packaging
10303	230 V AC	GP6010E - GP7000E - GP7000WE - GP8000FE - GP8000FKE	258,58 €	Z6	1

## IS3-E



- **Regolatore per accensione, spegnimento e modulazione pompa solare ad alta efficienza. Funzione termostato per integrazione da altra fonte.**
- *Controller for high efficiency solar pump operation and modulation. Thermostat mode for integration from other sources.*
- **Régulateur pour la mise en marche, l'arrêt et la modulation de la pompe solaire à haut rendement. Fonction thermostat pour l'intégration d'autres sources.**
- *Regler zum Einschalten, Ausschalten und Modulation der Solarpumpe mit hoher Effizienz. Thermostatfunktion für die Integration von anderen Quellen.*
- **Regulador para encendido, apagado y modulación de bomba solar con alta eficiencia. Función de termostato para la integración de otras fuentes.**

Code	Size	Module	Price	Class	Packaging
16305	230 V AC	GP6010E - GP7000E - GP7000WE - GP8000E - GP8000KE - GP8000FE - GP8000FKE	344,14 €	Z6	1

## IS4-E



- **Regolatore per accensione, spegnimento e modulazione pompa solare ad alta efficienza. Funzione termostato per integrazione da altra fonte. Gestione della stratificazione meccanica (GP9000HXE).**
- *Controller for high efficiency solar pump operation and modulation. Thermostat mode for integration from other sources. Management of mechanical stratification (GP9000HXE).*
- **Régulateur pour la mise en marche, l'arrêt et la modulation de la pompe solaire à haut rendement. Fonction thermostat pour l'intégration d'autres sources. Gestion de la stratification mécanique (GP9000HXE).**
- *Regler zum Einschalten, Ausschalten und Modulation der Solarpumpe mit hoher Effizienz. Thermostatfunktion für die Integration von anderen Quellen. Verwaltung von mechanischen Schichtung (GP9000HXE).*
- **Regulador para encendido, apagado y modulación de bomba solar con alta eficiencia. Función de termostato para la integración de otras fuentes. Gestión de la estratificación mecánica (GP9000HXE).**

Code	Size	Module	Price	Class	Packaging
17403	230 V AC	GP9000HXE	472,11 €	Z6	1

## IS3



- **Regolatore per accensione, spegnimento e modulazione pompa solare. Possibilità di gestire on-off una seconda pompa.**
- *Controller for solar pump operation and modulation. Possibility to on/of control of an additional pump.*
- **Régulateur pour la mise en marche, l'arrêt et la modulation de la pompe solaire. Possibilité de gérer on/off une deuxième pompe.**
- *Regler zum Einschalten, Ausschalten und Modulation der Solarpumpe. Möglichkeit zum Ein- und Ausschalten einer zweiten Pumpe.*
- **Regulador para encendido, apagado y modulación de bomba solar. Posibilidad de gestionar on-off de una segunda bomba.**

Code	Size	Module	Price	Class	Packaging
13300	230 V AC	GP6010 - GP7000 - GP7000W - GP8000 - GP8000K - GP8000F - GP8000FK	323,00 €	Z6	1

## IS4



- **Regolatore per accensione, spegnimento e modulazione pompa solare. Possibilità di gestire on-off una seconda pompa e una valvola deviatrice per stratificazione meccanica.**
- *Controller for solar pump operation and modulation. Possibility to on/of control of an additional pump and a diverter valve to mechanical layering.*
- **Régulateur pour la mise en marche, l'arrêt et la modulation de la pompe solaire. Possibilité de gerance on-off d'une deuxième pompe et d'une vanne de dérivation pour la superposition mécanique.**
- *Regler zum Einschalten, Ausschalten und Modulation der Solarpumpe. Fähigkeit, eine zweite Pumpe und ein Umschaltventil für mechanische Schichtung zu verwalten.*
- **Regulador para encendido, apagado y modulación de bomba solar. Posibilidad de gestionar on-off de una segunda bomba y una válvula desviadora para la estratificación mecánica.**

Code	Size	Module	Price	Class	Packaging
143005	230 V AC	GP9000HX	429,30 €	Z6	1

# ACCESSORIES FOR SOLAR SYSTEMS

## VAR 30 HT



- Collettore modulare per gruppi GP8000K/GP8000FK connessi in parallelo.
- Modular manifold for GP8000K/GP8000FK units connected in parallel.
- Collecteur modulaire pour des groupes GP8000K/GP8000FK connectés en parallèle.
- Modularverteiler für Einheiten GP8000K/GP8000FK, parallel geschaltet verbunden.
- Colector modular para grupos GP8000K/GP8000FK conectados en paralelo.

Code	Size	Price	Class	Packaging
550630HT	1"1/4 F	216,17 €	Z6	1

## AC 600 HT



- Tappo per collettore modulare.
- Plug for modular manifold.
- Bouchon pour collecteur modulaire.
- Verschluss für Modularverteiler.
- Tapón para colector modular.

Code	Size	Price	Class	Packaging
500904HT	1"1/4 M	5,01 €	Z6	35 / 280

## AC 606 HT



- Nipplo girevole per gruppi GP8000 (F, K, FK).
- Turnable nipple for GP8000 (F, K, FK) groups.
- Mamelon pivotant pour des groupes GP8000 (F, K, FK).
- Drehbare Nippel für Einheiten GP8000 (F, K, FK).
- Niple giratorio para grupos GP8000 (F, K, FK).

Code	Size	Price	Class	Packaging
506700HT	1"1/4 M x 1"1/4 M	16,18 €	Z6	10 / 80

## VSC 00 SOL



- Valvola di sicurezza per applicazioni solari.
- Safety valve for solar applications.
- Clapet de sécurité pour des applications solaires.
- Sicherheitsventil für Solaranwendungen.
- Valvula de seguridad para aplicaciones solares.

Code	Size	Max inlet pressure	Price	Class	Packaging
10005520	3/4" F x 3/4" F	6 bar	15,49 €	Z6	1

## IVANTIGELO



- Glicole propilenico antigelo per circuito solare.
- Antifreeze propylene glycol for solar circuit.
- Propylèneglycol antigel pour circuit solaire.
- Propylenglykol Frostschutz für Solarkreislauf.
- Propilenglicol anticongelante para circuito solar.

Code	Operating temp.	Price	Class	Packaging
IVANTIGELO	32-220 °C	7,65 €/Kg	Z6	10 Kg



### FLB70



- **Flussmetro con by-pass per elevate portate.**
- *By-pass balancing flow meter for large flow rates.*
- **Débitmètre avec by-pass pour des débits élevés.**
- *Flussmesser mit Bypass für hohe Durchflussmengen.*
- **Caudalímetro con bypass para caudales elevados.**

Code	Size	Range	Max operating temp.	Price	Class	Packaging
FLB70	1"1/4 F (DN 32)	20-70 l/min	100 °C	339,42 €	Z6	1
FLB70SOL	1"1/4 F (DN 32)	20-70 l/min	130 °C	409,72 €	Z6	1

### FLI-SOL



- **Flussmetro in linea per il bilanciamento di banchi solari.**
- *On-line flow meter for solar bank balancing.*
- **Débitmètre en ligne pour l'équilibrage des bancs solaires.**
- *Flussmesser in Linie für Auswuchtung der Solarreihen.*
- **Caudalímetro en línea para el equilibrio de bancadas solares.**

Code	Size	Range	Max operating temp.	Price	Class	Packaging
FLI06SOL	1" M x 1" F (DN 20)	1,5-6 l/min	130 °C	161,93 €	Z6	1
FLI16SOL	1" M x 1" F (DN 20)	4-16 l/min	130 °C	161,93 €	Z6	1

### VESOL



- **Vaso di espansione chiuso a membrana per circuito solare.**
- *Membrane closed expansion vessel for solar circuits.*
- **Vase d'expansion fermé à membrane pour circuit solaire.**
- *Expansionsgefäß, mit Membran verschlossen, für Solarkreislauf.*
- **Vaso de expansión cerrado con membrana para circuito solar.**

Code	Size	Height	Price	Class	Packaging
VESOL8	8 l - Ø195 mm - G 3/4"	325 mm	40,37 €	Z2	1
VESOL15	15 l - Ø260 mm - G 3/4"	360 mm	47,42 €	Z2	1
VESOL20	20 l - Ø260 mm - G 3/4"	420 mm	50,36 €	Z2	1
VESOL24	24 l - Ø295 mm - G 1"	420 mm	52,31 €	Z2	1
VESOL33	33 l - Ø365 mm - G 1"	415 mm	63,88 €	Z2	1
VESOL50	50 l - Ø370 mm - G 1"	790 mm	141,08 €	Z2	1
VESOL60	60 l - Ø415 mm - G 1"	745 mm	148,13 €	Z2	1
VESOL80	80 l - Ø460 mm - G 1"	785 mm	186,53 €	Z2	1

# PIPES AND FITTINGS

## S00



- Tubo corrugato in acciaio inox austenitico AISI 316L, con isolante in EPDM a celle chiuse, pellicola protettiva anti raggi UV e cavo per sonda di temperatura. Ogni confezione contiene un kit di raccordi (4 dadi, 4 guarnizioni, 4 anelli e 2 nippli).
- Austenitic stainless steel AISI 316L pipe with closed cell EPDM insulation, protective anti-UV film and electric cable for temperature probe. Fitting kit (4 nuts, 4 gaskets, 4 rings and 2 nipples) also included.
- Tuyau ondulé en acier inox austénitique AISI 316L, avec isolant en EPDM à cellules fermées, pellicule de protection contre les rayons UV et câble pour sonde de température. Chaque paquet contient un kit de raccords (4 écrous, 4 joints, 4 anneaux et 2 mamelons).
- Wellrohr aus authentischem Edelstahl AISI 316L mit geschlossenzelligem Isolierstoff aus EPDM, Schutzfolie gegen UV Bestrahlung und Kabel für Temperatursonde. Jede Verpackung enthält einen Anschlussbausatz (4 Muttern, 4 Dichtungen, 4 Ringe und 2 Nippel).
- Tubo corrugado de acero inoxidable austenítico AISI 316L, con aislante de EPDM de celdas cerradas, film protector contra los rayos UV y cable para sonda de temperatura. Cada paquete contiene un kit de racores (4 tuercas, 4 juntas, 4 anillos y 2 niples).

Code	Size	Length	Price	Class	Packaging
S0016010	DN 16 - Fitting 3/4"	10 m	54,94 €/m	Z6	10 m
S0016015	DN 16 - Fitting 3/4"	15 m	53,55 €/m	Z6	15 m
S0016020	DN 16 - Fitting 3/4"	20 m	52,90 €/m	Z6	20 m
S0016025	DN 16 - Fitting 3/4"	25 m	52,42 €/m	Z6	25 m
S0020010	DN 20 - Fitting 1"	10 m	62,71 €/m	Z6	10 m
S0020015	DN 20 - Fitting 1"	15 m	61,10 €/m	Z6	15 m
S0020020	DN 20 - Fitting 1"	20 m	60,33 €/m	Z6	20 m
S0020025	DN 20 - Fitting 1"	25 m	59,79 €/m	Z6	25 m
S0025015	DN 25 - Fitting 1"1/4	15 m	79,04 €/m	Z6	15 m
S0025025	DN 25 - Fitting 1"1/4	25 m	77,03 €/m	Z6	25 m

## RR 500



- Kit di raccordi per tubo corrugato costituito da 4 dadi, 4 guarnizioni, 4 anelli e 2 nippli a tenuta piatta.
- Fitting kit for corrugated pipe consisting of 4 nuts, 4 gaskets, 4 rings and 2 flat-seal nipples.
- Kit de raccords pour tuyau ondulé composé de 4 écrous, 4 joints, 4 anneaux et 2 mamelons à étanchéité plate.
- Bausatz mit Anschlüssen für das Wellrohr, bestehend aus 4 Muttern, 4 Dichtungen, 4 Ringe und 2 Dichtungsnippeln.
- Kit de racores para tubo corrugado compuesto por 4 tuercas, 4 juntas, 4 anillos y 2 niples con junta plana.

Code	Size	Price	Class	Packaging
S0304160	3/4"	20,39 €	Z6	1
S0304200	1"	38,78 €	Z6	1
S0304250	1"1/4	72,15 €	Z6	1

## RR S030 TP



- Nipplo a tenuta piatta maschio-maschio.
- Male-male flat seal nipple.
- Mamelon à étanchéité plate mâle-mâle.
- Flachdichtungsnippel AG-AG.
- Niple con junta plana macho-macho.

Code	Size	Price	Class	Packaging
S0301160	3/4" M x 3/4" M	3,59 €	Z6	1
S0307200	1" M x 3/4" M	7,79 €	Z6	1
S0301200	1" M x 1" M	8,83 €	Z6	1
S0307250	1"1/4 M x 1" M	15,55 €	Z6	1
S0301250	1"1/4 M x 1"1/4 M	18,20 €	Z6	1

### RR 781 TP



- **Raccordo diritto con attacco per tubo rame e filetto maschio a tenuta piatta.**
- *Straight fitting with copper pipe connection and male flat-seal thread.*
- **Raccord droit avec connection pour tuyau en cuivre et filetage mâle à étanchéité plate.**
- *Gerade Verbindung mit Anschluss für Kupferrohr und Gewindeverschraubung AG mit Flachdichtung.*
- **Racor recto con conexión para tubo de cobre roscada macho y junta plana.**

Code	Size	Price	Class	Packaging
19805041	22 mm x 3/4" M	5,28 €	Z6	1
IV2052	22 mm x 1" M	15,70 €	Z6	1

### RR 881 TP



- **Raccordo a gomito con attacco tubo rame, filetto maschio tenuta piatta.**
- *Elbow fitting with copper pipe connection and male flat seal thread.*
- **Raccord coudé avec connection pour tuyau en cuivre, filetage mâle à étanchéité plate.**
- *Krümmter mit Anschluss für Kupferrohr, Gewindeverschraubung AG mit Flachdichtung.*
- **Racor en codo con conexión tubo de cobre, rosca macho junta plana.**

Code	Size	Price	Class	Packaging
IV2021	22 mm x 3/4"	19,47 €	Z6	1
IV2022	22 mm x 1"	31,25 €	Z6	1

### AC 602 TP



- **Riduzioni maschio-femmina con sede piana.**
- *Male-female flat-seal reduction.*
- **Réductions mâle-femelle avec logement plat.**
- *Reduzierstück AG-IG mit Flachsitz*
- **Reducciones macho-hembra con sede plana.**

Code	Size	Price	Class	Packaging
IV2122	3/4" F x 1" M	7,39 €	Z6	1
IV2123	1" F x 1"1/4 M	12,02 €	Z6	1

### AC 601 HT



- **Tappo 3/4" femmina con guarnizione per alte temperature.**
- *3/4" female plug with seal for high temperature.*
- **Bouchon 3/4" femelle avec le joint pour des hautes températures.**
- *IG Verschluss 3/4" mit Dichtung für Hochtemperatur.*
- **Tapón 3/4" hembra con junta para altas temperaturas.**

Code	Size	Price	Class	Packaging
500022HT	3/4"	3,46 €	Z6	100 / 800

### AC 636 HT



- **Valvole a sfera di intercettazione per applicazioni solari.**
- *Shut-off ball valves for solar applications.*
- **Robinet d'arrêt à sphère pour des applications solaires.**
- *Kugelabsperventile für Solaranwendungen.*
- **Válvulas de esfera de interceptación para aplicaciones solares.**

Code	Size	Price	Class	Packaging
8366N007HT	1"1/4 F x 1"1/4 F	45,33 €	Z6	1

**RR I-SUNF**


- **Raccordo di giunzione per pannelli solari piani I-SUNF con attacco doppio tubo rame.**
- *Joint fitting for I-SUNF flat solar panels with double copper pipe connection.*
- **Raccord de jonction pour des panneaux solaires plans I-SUNF avec raccord double tuyau en cuivre.**
- *Verbindungen für Flachsolarverteiler I-SUNF mit Doppelanschluss Kupferrohr.*
- **Racor para paneles solares planos I-SUNF con conexión doble tubo de cobre.**

Code	Size	Price	Class	Packaging
3156	22 mm x 22 mm	7,13 €	Z6	1

**PS I-SUNF**


- **Raccordo portasonda con valvola di intercettazione e attacco per valvola di sfiato automatica, adatto a collettori solari piani I-SUNF, con attacchi tubo rame.**
- *Fitting with probe holder, connection and interception for automatic air vent valve, suitable to I-SUNF flat plate solar panels, with copper pipe connections.*
- **Raccord porte-sonde avec soupape d'arrêt et raccord pour purgeur d'air automatique, approprié aux collecteurs solaires plans I-SUNF, avec raccords tuyau en cuivre.**
- *Anschluss Sondenhalter mit Absperrventil und Anschluss für automatisches Entlüftungsventil, geeignet für Flachsolarverteiler-SUNF, mit Anschlüssen für Kupferrohre.*
- **Racor portasonda con válvula de interceptación y conexión para válvula purgadora automática, idóneo para colectores solares planos I-SUNF, con conexiones para tubo de cobre.**

Code	Size	Price	Class	Packaging
506031	22 mm x 22 mm	37,78 €	Z6	5 / 40

**AC 620 SOL**


- **Valvola di sfiato automatica per campo solare costituito di collettori piani I-SUNF.**
- *Automatic air vent valve for solar field of I-SUNF solar panels.*
- **Purgeur d'air automatique pour champ solaire comprenant des collecteurs plans I-SUNF.**
- *Automatisches Entlüftungsventil für Solarfeld, bestehend aus Flachverteiler I-SUNF.*
- **Válvula purgadora automática para campo solar compuesto por colectores planos I-SUNF.**

Code	Size	Max inlet pressure	Max operating temp.	Price	Class	Packaging
506701	1/2" M	10 bar	180 °C	12,55 €	Z6	10 / 80

**RF I-SUNKSR**


- **Raccordo di giunzione flessibile per collettori sottovuoto I-SUNKSR. Dado e guarnizioni incluse.**
- *Flexible joint connection for I-SUNKSR vacuum pipe collectors. Nut and gaskets included.*
- **Raccord de jonction flexible pour des collecteurs sous vide I-SUNKSR. Écrou et joints inclus.**
- *Flexible Verbindung für Vakuumverteiler I-SUNKSR. Inklusive Mutter und Dichtung.*
- **Racor flexible para colectores de vacío I-SUNKSR. Tuerca y juntas incluidas.**

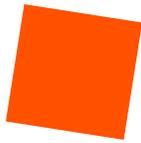
Code	Size	Price	Class	Packaging
420100	3/4"	9,60 €	Z6	1

**PS I-SUNKSR**

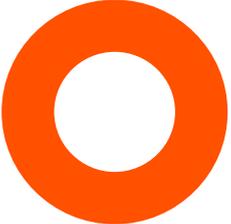

- **Kit composto da valvola di sfiato e portasonda per collettori sottovuoto I-SUNKSR.**
- *Kit consisting of air vent valve and probe holder for vacuum tube collectors I-SUNKSR.*
- **Kit comprenant une vanne de purge et un porte-sonde pour des collecteurs sous vide I-SUNKSR.**
- *Bausatz bestehend aus Entlüftungsventil und Sondenhalter für Vakuumverteiler I-SUNKSR.*
- **Kit compuesto por válvula purgadora y portasonda para colectores de vacío I-SUNKSR.**

Code	Size	Price	Class	Packaging
470201SR	3/4" F x 3/4" M flat seal	25,90 €	Z6	1

- C\_Notes\_IT
- C\_Notes\_EN
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- C\_Notes\_DE
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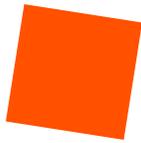


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MP 5760 GAS	529	MUL 10 E	364	PS I-SUNKSR	625	RR 4613	146	TE 3040	257
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500473TR	42	500529G	264	500647RC	59	500769	497	500888RC	51
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507170ASIV	204	507817N	483	508172AIV	202	509047	516	509165	553
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507171AIV	202	508000NB	261	508172KC	200	509049	516	509166	553
507171ASIV	204	508000NR	261	508182AIV	203	509050	516	509166C	553
507171KC	200	508001NB	261	508182ASIV	205	509051	516	509167	557
507172AIV	202	508001NR	261	508182KC	201	509052	516	509167CS	557
507172ASIV	204	508002NB	261	508183AIV	203	509053	516	509168	557
507172KC	200	508002NR	261	508183ASIV	205	509054	516	509168CS	557
507173AIV	202	508005	261	508183KC	201	509055	517	509169	571
507173ASIV	204	508005ST	261	508184AIV	203	509056	517	509169CS	571
507173KC	200	508006	261	508184ASIV	205	509057	517	509170	430
507182AIV	203	508006ST	261	508184KC	201	509058	517	509171	430
507182ASIV	205	508010	262	508185AIV	203	509059	517	509172	430
507182KC	201	508012	451	508185ASIV	205	509060	517	509173	430
507183AIV	203	508013	451	508185KC	201	509061	517	509174	430
507183ASIV	205	508050	509	508186AIV	203	509062	517	509175	430
507183KC	201	508100	286	508186ASIV	205	509063	517	509176	430
507184AIV	203	508134PEC	370	508186KC	201	509064	517	509177	430
507184ASIV	205	508134PEI	370	508187AIV	203	509065	520	509178	430
507184KC	201	508134PEIC	370	508187ASIV	205	509066	521	509200	278
507185AIV	203	508135PEC	371	508187KC	201	509067	429	510000	140
507185ASIV	205	508135PEI	371	508188AIV	203	509068	429	510000	148
507185KC	201	508135PEIC	371	508188ASIV	205	509069	429	510001MP	115
507186AIV	203	508136PEC	370	508188KC	201	509070	429	510001MPGAS	528
507186ASIV	205	508136PEI	370	508189AIV	203	509071	429	510001MPL	132
507186KC	201	508136PEIC	370	508189ASIV	205	509072	429	510002MP	115
507187AIV	203	508137PEC	369	508189KC	201	509078	430	510002MPGAS	528
507187ASIV	205	508137PEI	369	508190AIV	203	509079	430	510002MPL	132
507187KC	201	508137PEIC	369	508190ASIV	205	509080	430	510003MP	115
507188AIV	203	508138PEC	369	508190KC	201	509081	430	510003MPGAS	528
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507191AIV	203	508141	372	509002	520	509088B	565	510005PMPL	138
507191ASIV	205	508153	371	509003	520	509088R	431	510006MP	112
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510050MP	115	510105MP	115	510170MP	124	511001MPGAS	528	511041MP	116
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513036MP	119	520079	60	520179SL	69	530011INOX	23	530048INOX	30
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513039MP	119	520080	61	520179VL	71	530012WHITE	22	530052INOX	31
513039MPL	134	520080RC	61	520179VLRC	71	530013	23	530053	30
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514204	230	520085	61	520180VLC	70	530016	31	530057WHITE	29
514205	230	520085R	61	520180VLRC	70	530016INOX	31	530058	29
514206	230	520085RC	61	520181SB	68	530021	17	530058WHITE	29
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514222	231	520124	349	520188SB	68	530025WHITE	21	530062WHITE	28
514223	231	520126	346	520188SBRC	68	530026	24	530063	31
514224	231	520132	260	520188SL	68	530026INOX	24	530063INOX	31
514225	231	520133	260	520188SLRC	68	530026WHITE	24	530066	31
514226	231	520135	349	520188VB	70	530027	25	530066INOX	31
514227	231	520136	349	520188VBRC	70	530027INOX	25	540020	239
514228	231	520139	349	520188VLC	70	530027WHITE	25	540021	239
514229	231	520149	98	520188VLRC	70	530028	24	540022	239
514230	231	520150	351	520189SB	68	530028INOX	24	540023	239
514231	231	520151	351	520189SBRC	68	530028WHITE	24	550009	250
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514362	223	520153	349	520189SLRC	68	530029INOX	25	550015	84
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514370	223	520174VB	71	520197	349	530032	29	550042	249
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514373	223	520174VLRC	71	520203	353	530033	29	550042N	249
514374	223	520175SB	69	530004	27	530033INOX	29	550042N	374
514375	223	520175SBRC	69	530004B	27	530033M	17	550042N	383
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520060	162	520177SBRC	69	530006WHITEB	27	530042	20	550097	252
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D50	339	HD34GAS	526	I-PEXA3L16R60	109	KSA0036B03	213	S0304250	623
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DR75	339	HF-P2012	325	ISOL-10	337	KSA0036B11	213	SAM-032	239
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ECO-A2006	323	HMR20MFI	586	IV100HT-10	347	KSA0037B08	213	SAM-135	494
ECO-A2012	323	HMR20MFIB	586	IV100LT	333	KSA0037B09	213	SAM-150	239
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**1. Premesse**

- 1.1 I contratti di vendita stipulati da I.V.A.R. S.p.A. (di seguito anche "venditore") nell'esercizio della propria attività imprenditoriale sono regolati dalle presenti condizioni generali di contratto, salvo deroghe risultanti da accordo scritto recante l'approvazione dall'Ufficio commerciale del venditore.
- 1.2 Eventuali condizioni generali del compratore, ed in particolare condizioni d'acquisto, non troveranno applicazione ai contratti di vendita stipulati dal venditore se non espressamente accettate per iscritto dall'Ufficio commerciale del venditore; in tal caso, tuttavia, salvo deroga scritta, tali condizioni non escluderanno l'efficacia delle presenti condizioni generali di contratto.
- 1.3 L'eventuale nullità e/o inefficacia di una o più disposizioni delle presenti condizioni generali di vendita non incide sulla validità del contratto nel suo complesso.
- 1.4 Le presenti condizioni generali di vendita si intendono integralmente lette ed accettate dal compratore con il conferimento dell'ordine di acquisto.

**2. Formazione del contratto e sua esecuzione**

- 2.1 Gli ordini e/o gli impegni assunti da rappresentanti, agenti e/o altri ausiliari del venditore non hanno in alcun modo il potere di vincolare il venditore medesimo; né consegue che tutti gli ordini gestiti da i predetti rappresentanti, agenti e ausiliari acquistano validità ed efficacia solo con la conferma scritta dell'Ufficio commerciale del venditore.
- 2.2 Qualsiasi modifica dell'ordine sarà valida e vincolante per il venditore solo previa approvazione scritta dell'Ufficio commerciale del venditore.
- 2.3 L'esecuzione del contratto potrà essere sospesa in qualsiasi momento nel caso di mutamento delle condizioni patrimoniali del compratore ai sensi ed agli effetti dell'art. 1461 del Codice Civile, salvo il risarcimento del danno. Al venditore è attribuita la facoltà di richiedere, anche in corso di esecuzione del contratto, idonee garanzie di pagamento. La mancata prestazione delle garanzie richieste costituirà causa di risoluzione del contratto ai sensi dell'art. 1456 Codice Civile.

**3. Cataloghi e listini-prezzi**

- 3.1 I dati, le misure, gli articoli, i prezzi, le caratteristiche, le prestazioni e tutti gli altri dati riprodotti nei cataloghi, listini, prospetti, circolari ecc. del venditore hanno carattere indicativo; essi possono essere variati senza alcun preavviso e hanno valore vincolante per il venditore unicamente in caso di loro espressa indicazione nell'accettazione/conferma d'ordine.
- 3.2 I listini-prezzi del venditore non costituiscono offerta; essi sono puramente indicativi e possono essere modificati unilateralmente dal venditore senza preavviso.
- 3.3 I prezzi si considerano di norma, salvo diverso accordo, "franco stabilimento del venditore - exw", imballaggio incluso. Sono, pertanto, a carico del compratore le tasse, imposte e diritti vigenti al momento della consegna. I prezzi non comprendono prestazioni od oneri non menzionati.
- 3.4 Le spese di assicurazione della merce sono a carico dell'acquirente, come pure le eventuali spese e gli eventuali diritti di dogana dovuti per il ritardo nello sdoganamento o per altre cause.

**4. Modalità di pagamento; decadenza del beneficio del termine; recesso unilaterale; interessi moratori; accettazione della fattura e ricognizione di debito.**

- 4.1 Salvo deroghe scritte, tutti i pagamenti devono essere effettuati presso la sede del venditore ed in valuta Euro. Tratte od altri mezzi di pagamento concordati non comportano in alcun modo modifiche o deroghe alla presente norma.
- 4.2 I prezzi riportati sul listino-prezzi del venditore si intendono al netto di I.V.A., che verrà applicata al tasso in vigore al momento della data di fatturazione.
- 4.3 Per ogni giorno di ritardo rispetto al pattuito termine di pagamento verranno conteggiati gli interessi moratori ai sensi del D.lgs. n. 231/2002.
- 4.4 In caso di pagamento dilazionato/rateale dell'importo della fattura, la mancata osservanza di un termine di pagamento comporta l'automatica decadenza dal beneficio del termine, l'esigibilità immediata dell'intero ammontare e la decorrenza degli interessi moratori ai sensi del D.lgs. n. 231/2002.
- 4.5 In caso di fallimento o di ammissione del compratore a procedure concorsuali nonché in caso di assoggettamento del compratore a procedure esecutive e/o a protesti, i debiti del compratore si considerano immediatamente esigibili e il venditore avrà facoltà, ai sensi dell'art. 1373 Codice Civile, di risolvere il contratto mediante l'invio di lettera raccomandata a/r ovvero mediante invio di posta certificata (P.E.C.).
- 4.6 Qualora sia convenuto un regolamento cambiario, sono a carico del compratore sia gli interessi di sconto che le spese e commissioni relative; gli interessi saranno conteggiati al tasso ufficiale di sconto maggiorato di tre unità. In caso di mancato pagamento o mancata accettazione di un effetto cambiario, le somme dovute diverranno immediatamente esigibili qualunque siano le condizioni convenute in precedenza.
- 4.7 Il decorso di dieci (10) giorni dal ricevimento della fattura senza che sia intervenuta qualsivoglia contestazione scritta da parte del compratore, da indirizzare all'Ufficio commerciale del venditore, circa l'ammontare della somma di denaro ivi indicata implica l'avvenuta ricognizione da parte del cliente del debito recato dalla predetta fattura ai sensi dell'art. 1988 Codice Civile.

**5. Messa a disposizione "franco stabilimento del venditore - exw" e spedizione della merce**

Il venditore comunicherà al compratore, per lettera e/o telegramma e/o telex e/o e-mail e/o posta certificata (P.E.C.), la data di messa a disposizione della merce presso lo stabilimento del venditore. Qualora il compratore non proceda al ritiro della merce presso lo stabilimento del venditore entro dieci (10) giorni dalla suddetta comunicazione, il venditore procederà alla spedizione della merce presso il domicilio del compratore da quest'ultimo specificato nell'ordine di acquisto. Nel caso di ritardata spedizione indipendente da fatto proprio, il venditore ha facoltà di addebitare al compratore le eventuali spese di immagazzinaggio, manutenzione, custodia e assicurazione della merce.

**6. Consegna e trasferimento dei rischi**

La consegna del materiale s'intende effettuata "franco stabilimento del venditore - exw" e "franco partenza". Ogni responsabilità del venditore cessa con la consegna al compratore o al vettore; ne consegue che il materiale viaggia a rischio e pericolo del compratore. Nei casi in cui, per accordi specifici intervenuti con il compratore, il materiale sia venduto "franco destino" non verranno comunque accettate contestazioni per eventuali furti, danneggiamenti o manomissioni. Eventuali accordi con spedizionieri, ivi compreso l'ammontare ed il pagamento del prezzo del trasporto, s'intenderanno sempre conclusi in nome e per conto del compratore, che sin d'ora accetta e ratifica l'operato del venditore.

**7. Trasporto ed imballaggi; responsabilità per perdite ed avarie**

- 7.1 L'onere della gestione del trasporto del materiale dallo stabilimento del venditore fino al luogo di destinazione s'intende normalmente a carico del compratore, salvo diverso accordo risultante dalla conferma d'ordine. Le spese di trasporto sono, in ogni caso, a carico del compratore. Il compratore assume tutti i rischi inerenti al trasporto fin dalla consegna del materiale al trasportatore o vettore, anche in caso di riserva del diritto di proprietà.
- 7.2 Il venditore provvederà all'imballaggio secondo le regole d'uso. Il venditore è comunque esonerato da ogni responsabilità per perdite e avarie che non dipendano da dolo o colpa grave del venditore e che non siano diretta e immediata conseguenza della sua condotta. Per particolari tipi di imballaggio saranno conteggiati in fattura gli extra prezzo indicati nel listino-prezzi, ove indicati, o nella conferma d'ordine.

**8. Garanzia convenzionale e limitazioni di responsabilità**

- 8.1 Tutti i prodotti del venditore vengono accuratamente collaudati in stabilimento; essi sono coperti da garanzia per il periodo di dieci anni dalla data di emissione della fattura, fatta eccezione per i componenti elettronici, che sono coperti da garanzia per il periodo di due anni dalla data di emissione della fattura.
- 8.2 La garanzia del venditore si limita alla sostituzione pura e semplice del pezzo difettoso, che deve essere previamente restituito al venditore (e sono, pertanto, tassativamente escluse dalla copertura della garanzia eventuali spese, danni, interessi od indennizzi di sorta). In ogni caso, i particolari di produzione del venditore dal medesimo riconosciuti difettosi, previo reclamo formulato dal compratore entro il termine massimo previsto dalla normativa in vigore, saranno sostituiti esclusivamente dal venditore. Resta comunque inteso che la responsabilità del venditore si limita ai difetti che si manifestino nelle condizioni d'impiego normale e nel corso di un'utilizzazione corretta del prodotto.
- 8.3 Ogni danno a persone, a cose e/o ad animali causato dal cattivo funzionamento del prodotto deve essere segnalato entro 24 ore, comunicando il nome del danneggiato e l'ammontare approssimativo del danno. Successivamente dovranno essere inviate le fotografie attestanti il danno, unitamente al prodotto causa del danno lamentato ai fini dell'esame di laboratorio. Tutto quanto possa evidenziare l'entità del danno deve essere tenuto a disposizione del venditore sino alla chiusura della pratica. Ogni eventuale intervento di ripristino eseguito in assenza di preventiva documentazione fotografica del danno comporterà la decadenza dal diritto alla garanzia dal venditore.
- 8.4 Il venditore declina ogni responsabilità per eventuali danni a persone, animali o cose derivanti dall'utilizzo dei prodotti senza l'osservanza delle prescrizioni di sicurezza o comunque non installati correttamente e/o installati senza effettuare i debiti controlli d'uso.

**9. Reclami**

- 9.1 Il compratore è tenuto ad esaminare in modo accurato la merce nel momento in cui ne riceve la consegna e a comunicare nel dettaglio al venditore, entro otto (8) giorni dalla consegna/ricevimento, eventuali vizi e/o mancanza di qualità riscontrati nel prodotto. Nel caso in cui il compratore non effettui la predetta comunicazione secondo la tempistica appena indicata, il prodotto sarà considerato definitivamente accettato e conforme all'ordine; resta ferma la possibilità, entro un (1) anno dalla consegna del prodotto a pena di prescrizione della azione, di denunciare eventuali vizi occulti e/o mancanza di qualità entro il termine di decadenza di otto (8) giorni dalla scoperta degli stessi in conformità a quanto previsto dagli artt. 1495 e 1497 Codice Civile.

- 9.2 Eventuali reclami e/o contestazioni circa vizi e/o mancanza di qualità del prodotto non attribuiranno al compratore il diritto di omettere o ritardare i pagamenti della fornitura.
- 9.3 Reclami e/o contestazioni circa vizi o mancanza di qualità del prodotto dovranno essere indirizzati esclusivamente all'Ufficio commerciale del venditore compilando in ogni sua parte l'apposito modulo "SEGNALAZIONE RECLAMO" scaricabile online [pim.ivar-group.com/Segnalazione\\_reclami/Segnalazione\\_reclami\\_it.pdf](http://pim.ivar-group.com/Segnalazione_reclami/Segnalazione_reclami_it.pdf).
- 9.4 Per una corretta e rapida gestione del reclamo è fondamentale comunicare informazioni dettagliate sui vizi e/o sulla mancanza di qualità contestati.
- 9.5 Nel caso in cui i prodotti restituiti al venditore non presentino i vizi e/o la mancanza di qualità contestate dal compratore, quest'ultimo dovrà versare al venditore la somma forfetaria pari al 10% del valore della merce a titolo di rimborso delle spese derivanti dalla gestione della procedura di reclamo.

#### 10. Termini di consegna e restituzione della merce; limitazione di responsabilità

- 10.1 Il termine di consegna convenuto tra le parti decorre dal giorno successivo a quello in cui sarà stato raggiunto l'accordo su ogni elemento del contratto e saranno state ricevute dal venditore tutte le informazioni necessarie all'esecuzione della consegna. Resta in ogni caso inteso che i termini di consegna indicati nelle offerte del venditore e/o nelle conferme d'ordine sono puramente indicativi e non vincolanti.
- 10.2 Nel caso sia richiesta una licenza d'importazione da parte del paese del compratore, il termine di consegna decorrerà dal momento in cui il venditore è stato informato per iscritto dell'avvenuta concessione della licenza.
- 10.3 La consegna della merce, anche se parziale, non può essere rifiutata dal compratore; le consegne parziali di merce non attribuiscono al compratore il diritto di annullare l'ordine.
- 10.4 Nessuna responsabilità sarà ascrivibile al venditore, e nulla pertanto sarà dovuto al compratore, ove il ritardo nella consegna non sia imputabile al venditore – come in caso di ritardi di terzi, inclusi fornitori e subfornitori, cause di forza maggiore come mobilitazioni, sommosse, scioperi o serrate, guerre, epidemie, chiusura, incidenti o guasti alle macchine o utensili, incendi, crolli inondazioni, terremoti, temperature eccessive, eventi metereologici e in genere in qualunque altro caso che comporti l'inattività totale o parziale degli stabilimenti del venditore e l'arresto o il rallentamento della produzione.
- 10.5 In ogni caso, il compratore non potrà avvalersi del ritardo nella consegna per risolvere il contratto.
- 10.6 Fatto salvo quanto previsto nel numero 8. in tema di garanzia, il cliente non potrà restituire per alcuna ragione il materiale consegnatogli senza espressa autorizzazione scritta del venditore. Nel caso di ottenimento del consenso alla restituzione, il compratore, per avere diritto al rimborso del corrispettivo di acquisto già pagato, dovrà restituire il materiale secondo le seguenti modalità:
- il materiale non dovrà essere stato utilizzato dal compratore e dovrà essere restituito nelle medesime condizioni in cui il compratore lo aveva ricevuto;
  - la restituzione del materiale dovrà avvenire entro giorni quindici (15) dalla data della fattura di acquisto;
  - il materiale dovrà essere restituito a I.V.A.R. S.p.A. - a cura, spese e rischio del compratore - presso la sede di Prevalle (BS), via IV Novembre, 181.

#### 11. Recesso e sospensione della fornitura

- 11.1 Nel caso di eventi imprevisi, forza maggiore e caso fortuito (quali, a mero titolo esemplificativo, scioperi o serrate, mancato o ridotto approvvigionamento di materie prime, difficoltà di trasporti, guerre, insurrezioni, interruzioni di comunicazioni comunque provocate, guasti agli impianti del venditore ecc.) il venditore avrà la facoltà di recedere dal presente accordo e/o di sospendere la fornitura in corso quando tali eventi imprevisi, ovunque essi avvengano, alterino in modo sostanziale lo stato dei mercati, il valore della moneta, le condizioni dell'industria italiana, o si verifichino circostanze anche endogene che, a giudizio insindacabile del venditore, non consentano la utile prosecuzione del rapporto di fornitura.
- 11.2 In caso di mancato pagamento, anche parziale, delle fatture emesse dal venditore, anche se relative a precedenti e già eseguite forniture di prodotti, il venditore si riserva la facoltà di sospendere le forniture di prodotti relative alle conferme d'ordine in corso di esecuzione.
- 11.3 In ogni caso, previsto dalle presenti condizioni generali di contratto, di recesso dal contratto e/o di sospensione della fornitura di materiale, il compratore non avrà diritto ad indennizzi, compensi, rimborsi o risarcimento dei danni.

#### 12. Diritti di proprietà intellettuale – Utilizzo del marchio I.V.A.R.

- 12.1 Qualsiasi disegno o documento tecnico relativo ai prodotti del venditore, anche se rimesso al compratore, rimane di esclusiva proprietà del venditore e non può essere utilizzato dal compratore o copiato, riprodotto, trasmesso o comunicato a terzi senza la preventiva autorizzazione scritta del venditore.
- 12.2 Qualsiasi utilizzo del marchio I.V.A.R. da parte del compratore dovrà essere preventivamente autorizzato per iscritto da parte del venditore, pena il risarcimento dei danni per indebito utilizzo del marchio.

#### 13. Legge applicabile. Giurisdizione. Foro competente.

- 13.1 Il contratto, anche nel caso in cui esso sia stipulato con compratori di nazionalità estera e in caso di prodotti forniti all'estero, sarà disciplinato dalla Legge italiana.
- 13.2 Qualsiasi controversia relativa al presente contratto e alla sua interpretazione e/o esecuzione è soggetta alla esclusiva giurisdizione italiana ed attribuita in via esclusiva alla competenza territoriale del Foro di Brescia.

#### 14. Codice della Privacy

- 14.1 Il compratore presta il consenso al trattamento dei propri dati personali, dando atto di aver ricevuto l'informativa privacy redatta sulla base di molteplici ordinamenti legislativi, inclusi gli artt. 13 e 14 del Regolamento (UE) 2016/679, che può essere consultata sul nostro sito [www.ivar-group.com/it/privacy](http://www.ivar-group.com/it/privacy).
- 14.2 Titolare del trattamento dei dati del compratore è la società I.V.A.R. S.p.A., con sede in Prevalle (BS), Via IV Novembre, 181.
- 14.3 Il compratore potrà esercitare in ogni momento i propri diritti rivolgendosi direttamente al titolare del trattamento all'indirizzo mail [privacy@ivar.it](mailto:privacy@ivar.it).
- 14.4 I.V.A.R. S.p.A. garantisce che i dati personali del compratore saranno trattati in forma automatizzata per il solo fine ed ai soli effetti del contratto di vendita regolato dalle presenti condizioni generali di contratto. Il trattamento verrà svolto in forma automatizzata e sarà improntato ai principi di correttezza, liceità e trasparenza e di tutela della riservatezza e dei diritti del compratore.
- 14.5 Il conferimento dei dati è obbligatorio per dare corso all'esecuzione del contratto e per adempiere agli obblighi contabili e fiscali; l'eventuale rifiuto di fornire tali dati comporterà la mancata esecuzione del contratto per colpa del compratore.
- 14.6 I dati personali potranno essere comunicati, oltre che a soggetti legati alla società I.V.A.R. S.p.A. (ad es. dipendenti, agenti, procuratori, filiali e/o sedi secondarie, ecc.) a banche, compagnie assicurative e comunque, in genere, a consulenti e/o professionisti della società stessa.

#### 15. Comunicazioni

Fatto salvo quanto diversamente previsto nelle altre condizioni generali di vendita, tutte le comunicazioni fra le parti dovranno essere effettuate per iscritto ed inviate all'indirizzo del destinatario indicato nel contratto ovvero alla sede legale del destinatario a mezzo lettera raccomandata A/R, telefax, e-mail, posta certificata (P.E.C.) o consegna a mano.

Il Compratore (data, timbro e firma)

Il compratore, nel dare atto di non rivestire la qualità di "consumatore", con conseguente esclusione della applicazione delle disposizioni e discipline di legge e/o di regolamento relative ai rapporti tra imprenditori e consumatori, dichiara di aver posto particolare attenzione alle seguenti clausole ai sensi degli artt. 1341 e 1342 c.c.:

- 2. Formazione del contratto e sua esecuzione;
- 4. Modalità di pagamento; decadenza dal beneficio del termine (4.4.); recesso unilaterale (4.5.); interessi moratori; accettazione della fattura e ricognizione di debito (4.7.).
- 6. Consegna a trasferimento dei rischi;
- 7. Trasporto ed imballaggi; responsabilità per perdite ed avarie (7.2.);
- 8. Garanzia convenzionale e limitazioni di responsabilità;
- 9. Reclami.
- 10. Termini di consegna e restituzione della merce; limitazione di responsabilità (10.4.);
- 11. Recesso e sospensione della fornitura;
- 13. Legge applicabile. Giurisdizione. Foro competente;

e di approvarle specificamente, prendendo e dando atto che l'esecuzione dell'ordine da parte di I.V.A.R. S.p.A. comporta l'integrale applicazione delle presenti condizioni generali di vendita.

Il Compratore (data, timbro e firma)

## 1. Introduction

- 1.1 The sales contracts entered into by IVAR S.p.A. (hereinafter the "seller") while conducting its business activities are governed by these general terms and conditions, unless there are exceptions resulting from an explicit written agreement and expressly approved in writing by the Sales Office of the seller.
- 1.2 Any terms and conditions of the buyer and, in particular, conditions of purchase, will not apply to the agreements stipulated by the seller unless expressly accepted in writing by the Sales Office of the seller: in this case, however, unless waived in writing, these terms and conditions remain in effect.
- 1.3 The possible invalidity and/or voidness of one or more provisions in these general conditions of sale will not affect the validity of the contract as a whole.
- 1.4 These general conditions of sale are considered to be fully read and accepted by the buyer upon order placement.

## 2. Formation of the contract and its execution

- 2.1 Orders taken and/or commitments made by representatives, agents and/or other collaborators of the seller cannot bind the seller in any way; it follows that all orders processed by the aforementioned representatives, agents and collaborators become valid and effective only upon written confirmation from the Sales Office of the seller.
- 2.2 Any changes to the order will be effective only upon written approval by the Sales Office of the seller.
- 2.3 The contract may be suspended at any time in case of changes in the financial conditions of the buyer pursuant to and under Art. 1461 of the [Italian] Civil Code, except claims for damages. The seller is given the right to request, in the course of execution of the order or contract, suitable guarantees of payment. The failure to provide the guarantees required will constitute grounds for termination of the contract pursuant to Art. 1456 of the [Italian] Civil Code.

## 3. Catalogues and price lists

- 3.1 The data, measurements, articles, prices, features, performance and all other data shown in our catalogues, price lists, prospectuses, circulars etc. are given only as indications; they may be changed without any warning and are only considered binding for the seller in the event of their explicit mention in the acceptance or confirmation of the order.
- 3.2 The price lists of the seller are not offers; they are only approximate and may be modified unilaterally by the seller without notice.
- 3.3 Unless otherwise agreed, prices are considered to be "ex-works of the seller", packaging included. Fees, taxes and duties in force at the time of delivery are the responsibility of the buyer. Prices do not include services or charges not mentioned.
- 3.4 Insurance expenses for the goods are to be borne by the buyer, as well as any expenses and customs duties due to delays in custom clearance or other reasons.

## 4. Payment methods; forfeiture; unilateral termination; default interests; acceptance of the invoice and debt acknowledgement

- 4.1 Barring written exceptions, all payments must be made at the offices of the seller in Euro. Bank drafts or other means of payment agreed upon do not imply modifications or exceptions to this rule.
- 4.2 The prices in the price list of the seller are exclusive of VAT, which will be applied at the rate in force at the time of the billing date.
- 4.3 For each day of delay with respect to the agreed upon payment terms, a default interest rate will be charged pursuant to [Italian] Legislative Decree. No. 231/2002.
- 4.4 In case of delayed payment/instalments, failure to meet a deadline results in the automatic forfeiture of the agreement, the immediate payment of the entire amount and charging of default interest pursuant to [Italian] Legislative Decree. No. 231/2002.
- 4.5 In the event of insolvency or involvement of the buyer in bankruptcy proceedings and if subjected to enforceable procedures and/or legal disputes, the debts of the buyer will be deemed immediately due and the seller will be entitled pursuant to art. 1373 of the [Italian] Civil Code to terminate the contract by sending a registered letter with return receipt or by sending a notice by certified mail (certified email address).
- 4.6 In the case where settlement is agreed upon via promissory note, the discount interests, costs and relative commissions are at the buyer's expense; interest is calculated at the official discount rate plus three points. In the event of non-payment or non-acceptance of a promissory note, the amount owed will become immediately due and payable regardless of the conditions agreed upon earlier.
- 4.7 If ten (10) days pass from the receipt of the invoice without any written complaint made by the buyer and addressed to the Sales Office of the seller as regards the amount specified therein, the debt will be considered acknowledged by the client in accordance with art. 1988 of the [Italian] Civil Code.

## 5. Provision and delivery of goods "ex-works of the seller"

The seller will notify by letter and/or telegram and/or telefax and/or e-mail and/or certified mail (certified email address) the date on which the goods are available at the seller's premises. If the buyer does not proceed with the collection of goods from the seller's premises within 10 days of such notice, the seller will proceed with the shipment of the goods to the buyer's address specified in the purchase order. In the case of delayed delivery independent of its own action, the seller has the right to charge the buyer any costs for storage, maintenance, protection and insurance of the goods.

## 6. Delivery and transfer of risk

The delivery of material is considered "ex-works of the seller" and "free on board". The responsibility of the seller stops with delivery to the buyer or carrier; consequently, the material is transported at the risk of the buyer. In cases in which, due to specific buyer interventions, the material is sold "free delivery", no disputes will be accepted for any thefts, damages or tampering. Any agreements with forwarding agents, including the amount and payment of the cost of transportation are considered settled in the name of and on behalf of the buyer who, from that moment onward, accepts and approves the conduct of the seller.

## 7. Transport and packaging; liability for loss and damage

- 7.1 The cost of transporting material from the seller's premises to the destination is normally intended to be borne by the buyer, unless otherwise agreed in the order confirmation. Transport costs are, in any case, to be borne by the buyer. The buyer assumes all risks inherent in the transportation starting from the delivery of the goods to the shipper or carrier, even if the right to property is reserved.
- 7.2 The seller will provide the packaging according to the rules of use. The seller is exempt from any liability for loss or damage, which does not result from intentional or gross negligence by the seller and is not the direct and immediate consequence of its conduct. For specific types of packaging, the extra amounts indicated in the price list or in the order, confirmation will be included in the invoice.

## 8. Standard warranty and liability restrictions

- 8.1 All the products of the seller are carefully tested on site; they are therefore covered by a warranty for a period of ten years from the date of issue of the invoice, except for electronic components, which are covered by a warranty of two years from the date of issue of the invoice.
- 8.2 The seller's warranty is limited to pure and simple replacement of the defective part, which must first be returned to the seller (and therefore any expenses, damages, interest or compensation of any kind are strictly excluded from the warranty). In any case, the components produced by the seller recognized as being faulty, preceded by a complaint made by the buyer within the maximum time period set forth by existing regulation, will be replaced only by the seller. Nevertheless the liability of the seller is limited to faults which appear under normal working conditions and during correct product use.
- 8.3 Any damage caused to things and/or animals by incorrect product operation must be made known within 24 hours, providing the name of the damaged part and the approximate amount of the damage. Subsequently photographs showing the damage must be sent, together with the product, which caused the alleged damage, for examination in the laboratory. Anything, which may provide evidence of the extent of the damage, must be made available to the seller until the case is closed.
- 8.4 The seller refuses all responsibility for any damage or injury to persons, animals or property derived from the use of the appliances without observing the safety provisions or from appliances, which are not installed correctly and/or were installed without performing the appropriate operation checks

## 9. Complaints

- 9.1 The buyer is required to examine the goods carefully when it receives delivery and notify the seller within eight (8) days from the delivery/receipt, of any defects or quality issues found in the product. If the buyer fails to make such notification within the time just indicated, the product is deemed to be definitively accepted and compliant with the order; it will still be possible, within one (1) year from the delivery of the product, under penalty of limitation of actions, to report any hidden faults and/or quality issues within the time limit of eight (8) days of discovery of the same in accordance with the requirements of Arts. 1495 and 1497 of the [Italian] Civil Code.
- 9.2 Any complaints and/or disputes about defects and/or quality issues of the product do not give the buyer the right to omit or delay payments of the supply.
- 9.3 Complaints and/or disputes about defects or quality issues of the product must be addressed exclusively to the Sales Office of the seller by filling in the "CLAIM REQUEST FORM", which can be downloaded from our website [pim.ivar-group.com/Segnalazione\\_reclami/Segnalazione\\_reclami\\_en.pdf](http://pim.ivar-group.com/Segnalazione_reclami/Segnalazione_reclami_en.pdf).
- 9.4 For a correct and swift management of the complaint it is essential to provide detailed information as regards the faults and/or quality issues.

9.5 If the products returned to the seller show no sign of the defects and/or quality issues reported by the buyer, the latter must pay to the seller a lump sum equal to 10% of the value of the goods as reimbursement for the cost of managing the complaint procedure.

**10. Terms of delivery and return of goods; restriction of liability**

10.1 The terms of delivery go into effect on the day following that on which the agreement is reached on each element of the contract and the seller receives all information necessary for execution. In any case, it is understood that the terms of delivery specified in the seller's offers and/or order confirmations only serve as guidelines and are not binding.

10.2 If an import license is requested from the country of the buyer, the delivery terms will go into effect from the moment the seller has been informed in writing of the granting of the license.

10.3 Deliveries of goods, even if partial, cannot be refused by the buyer; partial deliveries of goods do not give the buyer the right to cancel the order.

10.4 No liability will be due to the seller, and therefore nothing will be due to the buyer, if the delay is not attributable to the seller - as in the case of delays by third parties, including suppliers and subcontractors, due to force majeure such as demonstrations, riots, strikes or lockouts, wars, epidemics, closure, accidents or failures of machinery or tools, fires, collapses, floods, earthquakes, extreme temperatures, weather events and generally in any other case involving partial or total inactivity of the premises of the seller and production stoppage or slowdown.

10.5 In any case, the buyer cannot use the delay in delivery to terminate the contract.

10.6 Except as provided for in number 8. on the subject of warranty, the client cannot return delivered material without the express written permission of the seller for any reason. To obtain consent for return and be entitled to a refund of the purchase price already paid, the buyer must return the material as follows:

- the material must be unused and returned in the same condition in which the buyer received it;
- the material must be returned within fifteen days (15) of the date of the invoice;
- the material must be returned to IVAR s.p.a. - at the expense and risk of the buyer - to the headquarters in Prevalle (BS), via IV Novembre, 181.

**11. Withdrawal and suspension of supply**

11.1 In case of unforeseen circumstances, force majeure and fortuitous events (such as but not limited to strikes or lockouts, missed or reduced supply of raw materials, difficulty of transport, wars, insurrection, interruption of communications, however caused, plant breakdowns etc.) the seller has the right to withdraw from this agreement and/or suspend the current supply when these unexpected events, wherever they take place, substantially alter the state of the markets, the value of money, Italian industry conditions or circumstances arise, even endogenous, that according to the incontestable judgement of the Seller, do not allow for the useful continuation of the supply relationship.

11.2 In case of non-payment, although partial, of the invoices issued by the seller, even for products that have already been supplied, the seller reserves the right to suspend the supply orders being processed.

11.3 In any case, under these general conditions of sale regarding withdrawal from the contract and/or suspension of the supply of material, the buyer will not be entitled to reparation, compensation, reimbursement or damages.

**12. Intellectual property rights**

12.1 Any drawing or technical document related to products of the seller, even if given to the buyer, remains the exclusive property of the seller and cannot be used by the buyer or copied, reproduced, transmitted or communicated to third parties without the prior written authorization of the seller.

12.2 Any use of the I.V.A.R mark. by the buyer must be previously authorized in writing by the seller, penalty of compensation of damage. due to improper use of the mark.

**13. Applicable law. Jurisdiction. Competent court**

13.1 The contract, even if it is entered into with buyers of foreign nationality, and in case of goods supplied abroad, will be governed by Italian law.

13.2 Any dispute related to this contract and its interpretation and/or execution will be subject exclusively to Italian jurisdiction and attributed exclusively to the territorial jurisdiction of the Court of Brescia.

**14. Privacy Code**

14.1 The buyer gives its consent to the processing of its personal data, acknowledging that it has received the information provided by art. Art.13/14 of Regulation (EU) 2016/679 (General Data Protection Regulation) that is consultable on our website: [www.ivar-group.com/en/privacy](http://www.ivar-group.com/en/privacy).

14.2 The data controller of the buyer is IVAR s.p.a. based in Prevalle (BS), Via IV Novembre, 181.

14.3 The buyer can exercise at any time by addressing the data controller directly at [privacy@ivar.it](mailto:privacy@ivar.it).

14.4 IVAR s.p.a. ensures that the personal information of the buyer will be processed automatically for the sole purpose and only to the effects of the sales contract governed by these general conditions of sale. The processing will be carried out automatically and will be based on the principles of correctness, lawfulness and transparency and the protection of privacy and the rights of the buyer.

14.5 The submission of data is compulsory to initiate the execution of the contract and to comply with accounting and tax obligations; any refusal to provide such data will result in the breach of contract because of the buyer.

14.6 In addition to subjects related to IVAR s.p.a. (e.g. employees, agents, brokers, subsidiaries and/or branches, etc.), personal data may be disclosed to banks, insurance companies and in general to consultants and/or professionals the same company.

**15. Communication**

Except if otherwise specified in the other general conditions of sale, all communication between the parties must be made in writing and sent to the address indicated in the contract or to the registered office of the addressee by registered letter with return receipt, telefax, e-mail, certified mail (certified email address) or delivered by hand.

The Buyer (date, stamp and signature)

The buyer, by not acting as a "consumer" and consequently being excluded from the application of rules and disciplines of law and/or regulations related to the relationship between businesses and consumers, declares to have paid particular attention to the following clauses under Articles 1341 and 1342 of the [Italian] Civil Code:

- 2. Formation and execution of the contract;
- 4. Payment methods; forfeiture (4.4.); unilateral termination (4.5.); default interests; acceptance of the invoice and debt acknowledgement (4.7.).
- 6. Delivery and transfer of risk;
- 7. Transport and packaging; liability for loss and damage (7.2.);
- 8. Conventional warranty and restrictions of liability;
- 9. Complaints.
- 10. Terms of delivery and return of goods; restriction of liability (9.4.);
- 11. Withdrawal and suspension of supply 13. Applicable law. Jurisdiction. Competent court;

and to have approved them specifically, acknowledging that the processing of the order by IVAR s.p.a. implies full application of these general conditions of sale.

The Buyer (date, stamp and signature)

**1. Prémisses**

- 1.1 Les contrats de vente stipulés par IVAR S.p.A. (ci-après dénommé « vendeur »), dans l'exercice de ses activités d'entreprise, sont régis par les présentes conditions générales de contrat, sauf dérogations résultant d'un accord écrit expressément approuvé par écrit par le Bureau Commercial du vendeur.
- 1.2 Les éventuelles conditions générales de l'acheteur, en particulier les conditions d'achat, ne s'appliqueront pas aux contrats de vente stipulés par le vendeur s'ils ne sont pas expressément acceptés par écrit par le Bureau Commercial du vendeur : dans ce cas, toutefois, sauf dérogation écrite, ces conditions n'affecteront pas l'efficacité des présentes conditions générales de contrat.
- 1.3 L'éventuelle nullité et/ou inefficacité d'une ou de plusieurs dispositions des présentes conditions générales de vente n'affecte pas la validité du contrat dans son ensemble.
- 1.4 Les conditions présentes générales de vente doivent être intégralement lues et acceptées par l'acheteur avec l'attribution de la commande de l'achat.

**2. Formation du contrat et son exécution**

- 2.1 Les commandes ou les engagements pris par les représentants, agents ou autres auxiliaires du vendeur n'ont pas le pouvoir de lier de quelque façon que ce soit le vendeur ; il s'ensuit que toutes les commandes effectuées par les représentants mentionnés ci-dessus, les agents et auxiliaires, ne deviennent valides et efficaces qu'avec la confirmation par écrit du Bureau Commercial du vendeur.
- 2.2 Toute modification de la commande n'obtiendra validité et ne sera contraignante qu'après approbation écrite du Bureau Commercial du vendeur.
- 2.3 A tout moment, l'exécution du contrat pourra être suspendue, en cas de changement des conditions du patrimoine de l'acheteur, conformément à l'art. 1461 du Code Civil, sauf l'indemnisation du dommage. Le vendeur a le droit de demander, même en cours d'exécution du contrat, des garanties appropriées de paiement. La non procuration des garanties demandées constituera un motif de résiliation du contrat conformément à l'art. 1456 du Code Civil.

**3. Catalogues et catalogues des prix**

- 3.1 Les données, les mesures, les articles, les prix, les caractéristiques, les prestations et toutes les autres données affichées dans nos catalogues, listes, prospectus, circulaires, etc. ont un caractère indicatif ; elles peuvent être changées sans aucun préavis, et ne sont pas contraignantes pour le vendeur qu'en cas d'expresse indication lors de l'acceptation ou lors de la confirmation de la commande.
- 3.2 Les listes de prix du vendeur ne constituent pas une offre ; ils sont purement indicatifs et peuvent être modifiés unilatéralement par le vendeur sans préavis.
- 3.3 Les prix sont normalement considérés, sauf accord contraire, « franco usine du vendeur », emballage utilisé. Les taxes, impôts et droits en vigueur au moment de la livraison sont à la charge de l'acheteur. Les prix ne comprennent pas les prestations et les charges non mentionnées.
- 3.4 Les frais d'assurance de la marchandise sont à la charge de l'acheteur, ainsi que les frais et droits éventuels de douane dus pour le retard dans le dédouanement ou pour d'autres raisons.

**4. Mode de paiement : expiration du bénéfice des délais ; résiliation unilatérale ; intérêts moratoires ; acceptation de la facture et reconnaissance de dette**

- 4.1 Sauf dérogations écrites, tous les paiements doivent être effectués auprès du siège du vendeur et en Euros. Les traites ou autres moyens de paiement accordés ne comportent en aucun cas des modifications ou des dérogations à cette norme.
- 4.2 Les prix reportés sur la liste de prix du vendeur sont nets de TVA, laquelle sera appliquée au taux en vigueur au moment de la date de facturation.
- 4.3 Pour chaque jour de retard par rapport au délai de paiement convenu, des intérêts moratoires seront comptabilisés, conformément au décret législatif n. 231/2002.
- 4.4 En cas de retard de paiement échelonné/différé, le non-respect d'un délai entraîne la déchéance automatique du terme, l'exigibilité immédiate de la totalité du montant et la prise d'effet des intérêts moratoires, conformément au décret législatif n. 231/2002.
- 4.5 En cas de faillite de l'acheteur ou d'ouverture de procédures collectives pour insolvabilité à l'encontre de ce dernier, ainsi qu'en cas d'assujettissement de l'acheteur à des procédures d'exécution et/ou à des protestations, les dettes de l'acheteur sont réputées immédiatement exigibles et le vendeur est en droit, en vertu de l'art. 1373 du Code Civil, de résilier le contrat par courrier recommandé a/r ou par courrier certifié (P.E.C.).
- 4.6 Si un paiement par lettre de change a été convenu, les intérêts d'escompte ainsi que les frais et commissions relatifs sont à la charge de l'acheteur ; l'intérêt sera calculé au taux officiel d'escompte plus trois unités. En cas de non-paiement ou de non-acceptation de la lettre de change, les sommes dues deviendront immédiatement exigibles, quelles que soient les conditions convenues antérieurement.
- 4.7 L'expiration de dix (10) jours à compter de la réception de la facture, sans l'intervention d'aucune contestation écrite de la part de l'acheteur à l'adresse du Bureau Commercial du vendeur quant au montant de la somme d'argent qui est indiquée, implique la reconnaissance de la dette, dont le montant est indiqué dans la facture, par le client, conformément à l'art. 1988 Code civil.

**5. Mise à disposition « franco usine du vendeur exw », et expédition de la marchandise**

Le vendeur communiquera à l'acheteur, par lettre et/ou télégramme et/ou fax et/ou e-mail et/ou courrier certifié (P.E.C.), la date de mise à disposition de la marchandise dans l'établissement du vendeur. Si l'acheteur ne procède pas à la récupération de la marchandise auprès de l'usine du vendeur dans les 10 jours à compter de la communication mentionnée ci-dessus, le vendeur procédera à l'envoi de la marchandise au domicile de l'acheteur indiqué dans le bon de commande. En cas de retard de l'envoi ne dépendant pas de ses actions, le vendeur a le droit de facturer à l'acheteur les éventuels frais de stockage, d'entretien, de garde et d'assurance de la marchandise.

**6. Livraison et transfert des risques**

La livraison du matériel est entendue effectuée « franco usine du vendeur - exw » et « franco départ ». Toute responsabilité du vendeur cesse dès la remise de la marchandise à l'acheteur ou au transporteur ; il s'ensuit que le matériel est transporté aux risques et périls de l'acheteur. Dans les cas où, après accords spécifiques pris avec l'acheteur, le matériel est vendu « port payé », les contestations pour vols, endommagements ou altérations ne seront de toute façon pas acceptées. D'éventuels accords avec les commissionnaires de transport, y compris le montant et le paiement du prix du transport, seront toujours conclus au nom et pour le compte de l'acheteur à partir du moment où il accepte et ratifie l'acte du vendeur.

**7. Transport et emballages ; responsabilité pour pertes et avaries**

- 7.1 Le coût du transport du matériel de l'usine du vendeur au lieu de destination est normalement à la charge du vendeur, sauf accord contraire venant de l'acheteur, de la commande. Les frais de transport sont, en tous les cas, à la charge de l'acheteur. L'acheteur assume tous les risques inhérents au transport depuis la remise du matériel au transporteur ou au vecteur, même en cas de réserve du droit de propriété.
- 7.2 Le vendeur fournira l'emballage selon les règles d'utilisation. Le vendeur est en tous les cas exonéré de toute responsabilité pour les pertes et dommages qui ne relèvent pas d'une faute intentionnelle ou grave du vendeur et qui ne découlent pas directement et immédiatement de sa conduite. Certains types d'emballages seront facturés en extra, d'après le surcoût indiqué dans la liste des prix, sur demande ou lors de la confirmation de la commande.

**8. Garantie conventionnelles et limites de responsabilité**

- 8.1 Tous les produits du vendeur sont soigneusement contrôlés en usine. Ils sont donc couverts par une garantie de 10 (dix) ans à partir de la date d'émission de la facture, à l'exception des composants électroniques pour lesquels est accordée une garantie de 2 (deux) ans à compter de la date d'émission de la facture.
- 8.2 La garantie du vendeur se limite purement et simplement au remplacement de la pièce défectueuse, qui doit d'abord être retournée au vendeur (les éventuels frais, dommages ou indemnités de toute nature sont donc strictement exclus de ce que couvre la garantie). Dans tous les cas, les détails de production du vendeur reconnus défectueux par ce dernier, sur plainte présentée par l'acheteur dans les délais prévus par la réglementation en vigueur, seront remplacés exclusivement par le vendeur. La responsabilité du vendeur se limite toutefois aux défauts qui se manifestent dans les conditions normales d'utilisation et au cours d'une utilisation correcte du produit.
- 8.3 Tout dommage causé par le mauvais fonctionnement du produit doit être signalé dans les 24 heures, en communiquant le nom du client qui a subi le dommage et le montant approximatif du dommage. Les photographies témoignant du dommage devront ensuite être envoyées, en alléguant le produit ayant causé le dommage, afin d'effectuer l'examen en laboratoire. Tout ce qui peut mettre en évidence l'étendue du dommage doit être tenu à disposition du vendeur jusqu'à la fermeture du dossier. Toute éventuelle intervention de rétablissement effectuée sans la présence de documentation photographique préalable du dommage entraînera la déchéance du droit à la garantie du vendeur.
- 8.4 Le vendeur décline toute responsabilité pour les éventuels dommages aux personnes, animaux ou choses dérivants de l'utilisation des produits sans observer les prescriptions de sécurité, ou de toute façon non installés correctement et/ou installés sans effectuer les contrôles d'utilisation nécessaires.

**9. Réclamations**

- 9.1 L'acheteur est tenu d'examiner la marchandise avec attention à la réception de la livraison et de signaler en détail au vendeur, dans les huit (8) jours suivant la livraison/réception, les éventuels défauts ou manque de qualité observés dans le produit. Dans le cas où l'acheteur n'effectue pas le signalement mentionné ci-dessus dans les délais indiqués précédemment, le produit sera considéré définitivement accepté et conforme à la commande ; il demeure possible, dans un délai d'un (1) an à compter de la livraison du produit, sous peine de description de l'action, de dénoncer d'éventuels défauts cachés et/ou manque de qualité avant l'expiration du délai de huit (8) jours à partir de la découverte de ces défauts, conformément aux dispositions des articles 1495 et 1497 du Code Civil.

- 9.2 Les éventuelles réclamations et/ou contestations concernant des défauts ou un manque de qualité du produit n'attribuent pas à l'acheteur le droit d'omettre ou de retarder les paiements de l'approvisionnement.
- 9.3 Des réclamations et/ou contestations de vices ou manque de qualité du produit devront être exclusivement communiqués au service commercial du vendeur en remplissant entièrement Le fichier "CLAIM REQUEST FORM" à télécharger en ligne [pim.ivar-group.com/Segnalazione\\_reclami/Segnalazione\\_reclami\\_en.pdf](http://pim.ivar-group.com/Segnalazione_reclami/Segnalazione_reclami_en.pdf). Pour pouvoir gérer rapidement et correctement la réclamation il est indispensable de fournir des informations détaillées sur les vices et/ou sur le manque de qualité contestés.
- 9.4 Si les produits restitués au vendeur ne présentent aucun vice et/ou le manque de qualité contesté par l'acheteur, ce dernier devra verser au vendeur une somme forfaitaire correspondant à 10% de la valeur de la marchandise à titre de remboursement des frais dérivant de la gestion de la procédure de réclamation.

## 10. Délais de livraison et restitution de la marchandise; limite de responsabilité

- 10.1 Le délai de livraison commence à partir du jour suivant celui où l'accord a été atteint concernant chaque élément du contrat, et où toutes les informations nécessaires à l'exécution ont été reçues par le vendeur. Il est en tout cas entendu que les conditions de livraison indiquées dans les offres du vendeur sont purement indicatives et non contraignantes.
- 10.2 Si le pays de l'acheteur exige un permis d'importation, le délai de livraison commencera à partir du moment où le vendeur aura été informé par écrit de la délivrance dudit permis.
- 10.3 Les livraisons de la marchandise, même partielles, ne peuvent pas être refusées par l'acheteur ; les livraisons partielles de marchandise n'attribuent pas à l'acheteur le droit d'annuler la commande.
- 10.4 Aucune responsabilité ne sera attribuable au vendeur, et rien ne sera donc dû à l'acheteur, si le retard n'est pas imputable au vendeur - comme dans le cas de retards de tiers, y compris les fournisseurs et sous-traitants, les cas de force majeure comme les manifestations, les émeutes, les grèves et les lock-out, les guerres, les épidémies, la fermeture, les accidents ou les pannes de machines ou d'outils, les incendies, les effondrements, les inondations, les tremblements de terre, les températures excessives, les événements météorologiques et en général tous les autres cas impliquant l'inactivité totale ou partielle des usines du vendeur et l'arrêt ou le ralentissement de la production.
- 10.5 Dans tous les cas, le retard de livraison ne donne pas à l'acheteur le droit de résilier le contrat.
- 10.6 Sans préjudice des prévisions du numéro 8. en termes de garantie, le client ne peut pas retourner pour une raison quelconque le matériel lui qui a été livré sans autorisation expresse et écrite du vendeur. En cas d'obtention du consentement au retour du produit, l'acheteur, pour avoir droit au remboursement de l'achat déjà payé, devra retourner le matériel selon les modalités suivantes :
- le matériel ne devra pas avoir été utilisé par l'acheteur et il devra être retourné dans le même état que celui dans lequel l'acheteur l'avait reçu ;
  - le retour du matériel devra s'exécuter dans les quinze (15) jours suivant la date de la facture de l'achat ;
  - le matériel devra être retourné à IVAR s.p.a. - aux soins, frais et risques de l'acheteur - auprès du siège de Prevalle (BS), via IV Novembre, 181.

## 11. Retrait et suspension de l'approvisionnement

- 11.1 En cas d'événements imprévus, de force majeure et de cas fortuits (tels que, mais sans s'y limiter, les grèves ou lock-out, l'approvisionnement manqué ou réduit de matières premières, les problèmes de transports, les guerres, les insurrections, les interruptions de communication, peu importe la cause, les pannes des équipements du vendeur etc.) le vendeur est en droit de résilier le présent accord et/ou de suspendre l'approvisionnement lorsque ces événements inattendus, où qu'ils se produisent, modifient considérablement l'état des marchés, la valeur de la monnaie, les conditions de l'industrie italienne, ou que se produisent des circonstances endogènes qui, à la discrétion du vendeur, ne permettent pas la poursuite utile du rapport d'approvisionnement .
- 11.2 En cas de non paiement, même partiel, des factures émises par le vendeur, même si relatives à des fournitures de produit précédentes déjà effectuées, le vendeur se réserve le droit de suspendre les fournitures de produits relatifs aux confirmations de commande en cours d'exécution.
- 11.3 Dans tous les cas, au vu des conditions générales de contrat, de résiliation du contrat et/ou de suspension de l'approvisionnement de matériel, l'acheteur n'a pas droit à des indemnités, compensations, remboursements ou dommages et intérêts.

## 12. Droits de propriété intellectuelle

- 12.1 Tout dessin ou document technique concernant les produits du vendeur, même s'il est remis à l'acheteur, demeure la propriété exclusive du vendeur et ne peut être utilisé par l'acheteur ni copié, reproduit, transmis ou communiqué à des tiers sans l'accord écrit préalable du vendeur.
- 12.2 Toute utilisation de la marque I.V.A.R. par l'acheteur devra être préventivement autorisée par écrit par le vendeur, sous peine de dommages et intérêts pour utilisation indue de la marque.

## 13. Loi applicable. Juridiction. Tribunal compétent

- 13.1 Le contrat, même s'il est stipulé avec des acheteurs de nationalité étrangère et en cas de produit fournis à l'étranger, sera régi par la loi italienne.
- 13.2 Tout litige relatif au présent contrat et à son interprétation et/ou exécution est exclusivement soumis à la juridiction italienne et est exclusivement attribué à la juridiction territoriale du Tribunal de Brescia.

## 14. Code de confidentialité

- 14.1 L'acheteur donne son consentement au traitement des données à caractère personnel, en reconnaissant qu'il a reçu la notice prévue par l'article 13/14 du règlement européen 2016/679 (règlement général sur la protection des données) consultable sur notre site [www.ivar-group.com/fr/privacy](http://www.ivar-group.com/fr/privacy).
- 14.2 Le titulaire du traitement des données par l'acheteur est la société IVAR s.p.a., ayant siège à Prevalle (BS), Via IV Novembre, 181.
- 14.3 L'acheteur peut à tout moment exercer ses droits en s'adressant directement au titulaire du traitement à l'adresse e-mail [privacy@ivar.it](mailto:privacy@ivar.it).
- 14.4 IVAR s.p.a. garantit que les données personnelles de l'acheteur seront traitées de manière automatique aux seules fins du contrat de vente régies par les présentes conditions générales de contrat. Le traitement s'effectuera de manière automatique et se fondera sur les principes de correction, de légalité, de transparence et de protection de la confidentialité et des droits de l'acheteur.
- 14.5 L'attribution des données est obligatoire pour donner cours à l'exécution du contrat et pour remplir les obligations comptables et fiscales; l'éventuel refus de fournir ces données impliquera l'inexécution du contrat à cause de l'acheteur.
- 14.6 Les données personnelles pourront être communiquées, outre aux sujets liés à la société IVAR s.p.a. (par ex. employés, agents, fournisseurs, filiales et/ou sièges secondaires, etc.) à des banques, à des compagnies d'assurance et, en général, à des consultants et/ou professionnels de la société même.

## 15. Communications

Sans préjudice aux prévisions des autres conditions générales de vente, toutes les communications entre les parties devront être effectuées par écrit et seront envoyées au destinataire à l'adresse indiquée dans le contrat, ou au siège légal du destinataire, par lettre recommandée A/R, téléfax, e-mail, courrier certifié (P.E.C.) ou à la main.

L'Acheteur (date, cachet et signature)

L'acheteur, en reconnaissant qu'il ne revêt pas la qualité de « consommateur », ce qui entraînerait l'exclusion de l'application des dispositions et des disciplines de loi et/ou de réglementations relatives aux relations entre les entrepreneurs et les consommateurs, affirme avoir porté son attention aux clauses suivantes, conformément à l'art. c.c. 1341 et 1342 du code civil :

- 2. Formation du contrat et son exécution.
- 4. Mode de paiement : expiration du bénéfice des délais ; résiliation unilatérale ; intérêts moratoires ; acceptation de la facture et reconnaissance de dette.
- 6. Livraison et transfert des risques ;
- 7. Transport et emballages ; responsabilité pour pertes et avaries.
- 8. Garantie conventionnelles et limites de responsabilité.
- 9. Réclamations.
- 10. Délais de livraison et restitution de la marchandise ; limite de responsabilité (9.4) ;
- 11. Retrait et suspension de l'approvisionnement ;
- 13. Loi applicable. Juridiction. Tribunal compétent ;

et de les approuver spécifiquement, en reconnaissant que l'exécution de la commande par IVAR s.p.a. implique l'application intégrale des présentes conditions générales de vente.

L'Acheteur (date, cachet et signature)

**1. Einleitung**

- 1.1 Die von IVAR S.p.A. (im Folgenden „Verkäufer“ genannt) bei Ausübung seiner Unternehmenstätigkeit abgeschlossenen Verkaufsverträge unterliegen den vorliegenden allgemeinen Vertragsbedingungen, vorbehaltlich ausdrücklich anders lautender schriftlicher Vereinbarungen, denen die Handelsabteilung des Verkäufers ausdrücklich schriftlich zugestimmt hat.
- 1.2 Eventuelle allgemeine Bedingungen des Käufers, und insbesondere Kaufbedingungen, finden für die vom Verkäufer abgeschlossenen Verkaufsverträge keine Anwendung, wenn sie nicht ausdrücklich von der Handelsabteilung des Verkäufers schriftlich anerkannt werden; in diesem Fall wird jedoch die Wirksamkeit der vorliegenden allgemeinen Vertragsbedingungen nicht ausgeschlossen, außer es liegt eine schriftliche Ausnahmeregelung vor.
- 1.3 Die eventuelle Ungültigkeit einer oder mehrerer Verfügungen der vorliegenden allgemeinen Verkaufsbedingungen berührt nicht die Rechtsgültigkeit des Vertrags als Ganzes.
- 1.4 Die vorliegenden allgemeinen Verkaufsbedingungen werden mit der Erteilung des Kaufauftrags seitens des Käufers als gelesen und akzeptiert betrachtet.

**2. Entstehung und Ausführung des Vertrags**

- 2.1 Die von den Vertretern, Handelsagenten oder sonstigen, vom Verkäufer beauftragten Personen angenommenen Aufträge oder Verpflichtungen sind für den Verkäufer auf keinen Fall verpflichtend; daraus folgt, dass alle von den o.g. Vertretern, Handelsagenten oder sonstigen dazu beauftragten Personen angenommenen Aufträge erst dann gültig und wirksam werden, wenn die diesbezügliche schriftliche Bestätigung der Verkaufsabteilung des Verkäufers vorliegt.
- 2.2 Jede Änderung bezüglich des Auftrags ist nur dann gültig und für den Verkäufer bindend, wenn sie schriftlich von der Verkaufsabteilung des Verkäufers genehmigt wurde.
- 2.3 Im Falle von Veränderungen hinsichtlich der finanziellen Lage des Käufers kann die Ausführung des Vertrags gemäß Art. 1461 des italienischen Zivilgesetzbuchs jederzeit unter Vorbehalt einer Schadenersatzforderung unterbrochen werden. Der Verkäufer ist berechtigt, auch im Laufe der Vertrags- oder Auftragsausführung angemessene Zahlungsgarantien zu verlangen. Eine mangelnde Leistung dieser angeforderten Zahlungsgarantien bewirkt die Vertragsauflösung gemäß Art. 1456 des italienischen Zivilgesetzbuchs.

**3. Kataloge und Preislisten**

- 3.1 Die Daten, Abmessungen, Artikel, Preise, Eigenschaften, Leistungen und alle sonstigen in unseren Katalogen, Preislisten, Prospekten, Rundschreiben, etc. angegebenen Daten sind unverbindlich; sie können jederzeit ohne Voranmeldung abgeändert werden und werden erst dann für den Verkäufer verbindlich, wenn sie bei der Annahme des Auftrags oder Bestätigung ausdrücklich angegeben wurden.
- 3.2 Die Preislisten des Verkäufers gelten nicht als Angebot, sie sind unverbindlich und können vonseiten des Verkäufers jederzeit ohne Voranmeldung abgeändert werden.
- 3.3 Die Preise verstehen sich außer im Falle von anderen diesbezüglichen Vereinbarungen „Frei Werk des Verkäufers“, Verpackung inbegriffen. Steuern, Gebühren und sonstige im Moment der Lieferung zu leistende Abgaben gehen zu Lasten des Käufers. Die Preise schließen nicht ausdrücklich erwähnte Leistungen oder Verpflichtungen nicht ein.
- 3.4 Die Versicherungskosten für die Waren, sowie eventuell wegen verspäteter Verzollung oder aus anderen Gründen entstehende, zu bezahlende Spesen und Zollkosten gehen zu Lasten des Käufers.

**4. Zahlungsweise; Verlust der Fristbegünstigung; einseitiger Rücktritt; Verzugszinsen; Annahme der Rechnung und Schuldanerkennung**

- 4.1 Außer im Falle von abweichenden schriftlichen Vereinbarungen müssen die Zahlungen in Euro an den Sitz des Verkäufers geleistet werden. Wechsel oder sonstige vereinbarte Zahlungsbedingungen bewirken auf keinen Fall Änderungen oder Abweichungen bezüglich der vorliegenden Bestimmung.
- 4.2 Die in der Preisliste angegebenen Preise verstehen sich inklusive Mehrwertsteuer. Sie wird bei Rechnungsausstellung zum derzeit geltenden Satz verrechnet.
- 4.3 Für jeden Tag Verspätung im Verhältnis zur vereinbarten Zahlungsfrist werden gemäß Art. 231/2002 des Gesetzesdekrets Nr. 231/2002 Verzugszinsen berechnet.
- 4.4 Im Falle eines Zahlungsaufschubes oder einr Ratenzahlung bewirkt die nicht Einhaltung einer Zahlungsfrist den automatischen Verlust der Fristbegünstigung, die sofortige Fälligkeit des Gesamtbetrags und die Festsetzung des Datums, ab dem gemäß Gesetzesdekret Nr. 231/2002 Verzugszinsen berechnet werden.
- 4.5 Im Falle eines Konkurses oder des Antrags auf Eröffnung eines Insolvenzverfahrens seitens des Käufers, und auch falls der Käufer Zwangsvollstreckungen und/oder Wechsel- oder Scheckproteste unterworfen ist, werden die Schulden des Käufers als sofort fällig betrachtet, und der Verkäufer hat das Recht, gemäß Art. 1375 des italienischen Zivilgesetzbuchs den Vertrag mit einem Einschreibebrief mit Rückschein oder durch zertifizierte Post (P.E.C.) aufzulösen.
- 4.6 Falls eine Zahlung durch Wechsel vereinbart wurde, gehen die Diskontierungszinsen, sowie die dazugehörigen Bankgebühren und -kosten zu Lasten des Käufers. Die Zinsen werden zum offiziellen Zinssatz plus 3 Einheiten verrechnet. Im Falle mangelnder Zahlung oder mangelnden Akzepts eines Wechsels, werden die noch geschuldeten Beträge sofort fällig, unabhängig davon, welche Bedingungen zuvor vereinbart waren.
- 4.7 Wenn nach Ablauf von 10 (zehn) Tagen ab Rechnungserhalt keine schriftliche, an die Verkaufsabteilung des Verkäufers zu adressierende Beanstandung des in der Rechnung angegebenen Betrags seitens des Käufers eingegangen ist, bedeutet das, dass sich der Käufer mit der geschuldeten Summe der genannten Rechnung gemäß Art. 1988 des italienischen Zivilgesetzbuchs einverstanden erklärt.

**5. Zurverfügungstellung „Frei Werk des Verkäufers - exw“ und Versand der Ware**

Der Verkäufer teilt dem Käufer per Brief und/oder Telegramm und/oder Fax und/oder E-Mail und/oder zertifizierter Post (P.E.C.) das Datum mit, an dem die Ware im Werk des Verkäufers zur Verfügung steht. Falls der Käufer nicht innerhalb von zehn (10) Tagen ab dieser Mitteilung dafür sorgt, dass die Ware im Werk des Käufers abgeholt wird, wird der Verkäufer die Ware an den im Auftrag angegebenen Firmensitz des Käufers schicken. Im Falle einer nicht vom Verkäufer verschuldeten, verspäteten Spedition, hat der Verkäufer das Recht, dem Käufer eventuelle Spesen für die Einlagerung, Wartung, Obhut und Versicherung der Ware zu verrechnen.

**6. Waren- und Risikoübergabe**

Die Lieferung des Materials erfolgt „Frei Werk des Verkäufers - exw“ oder „frei Lieferort“. Jede Haftung für den Verkäufer erlischt mit der Übergabe der Ware an den Käufer oder an die Transportfirma, daraus folgt, dass der Käufer die Transportrisiken- und gefahren für das Material übernimmt. Falls in besonderen, mit dem Käufer vereinbarten Fällen der Verkauf «Frei Haus» erfolgt, werden dennoch auf keinen Fall Reklamationen wegen Diebstahls, Beschädigungen oder Aufbrechens akzeptiert. Eventuell getroffene Vereinbarungen mit den Transportfirmen, inbegriffen der Transportpreis und die dafür vorgesehene Zahlungsart, verstehen sich immer als im Namen und im Auftrag des Käufers abgeschlossen, der im voraus die vom Verkäufer ausgehandelten Transportbedingungen akzeptiert.

**7. Transport und Verpackung; Verantwortung für Verlust und Beschädigungen**

- 7.1 Die Bemühungen hinsichtlich des Transports vom Werk des Verkäufers bis zum Ankunftsort verstehen sich gewöhnlich zu Lasten des Käufers, ausgenommen es wurden in der Auftragsbestätigung andere Bedingungen vereinbart. Die Transportkosten gehen auf jeden Fall zu Lasten des Käufers. Der Käufer übernimmt alle mit dem Transport verbundenen Risiken ab der Übergabe des Materials an die Spedition oder den Frachtführer, auch im Falle einer Beibehaltung des Eigentumsrechts seitens des Verkäufers.
- 7.2 Der Verkäufer kümmert sich um eine angemessene Verpackung. Der Verkäufer ist auf jeden Fall nicht für Verluste oder Defekte der Ware verantwortlich, die nicht auf Vorsatz oder schweres Verschulden seinerseits zurückzuführen sind, und die nicht eine direkte oder sofortige Konsequenz seines Verhaltens darstellen. Bei besonderen Verpackungen werden dem Käufer in der Rechnung die in der Preisliste angegebenen Mehrkosten verrechnet, falls sie dort angegeben sind, ansonsten die in der Auftragsbestätigung angegebenen.

**8. Vertragsgarantie und Haftungsbeschränkung**

- 8.1 Alle Produkte werden vom Hersteller im eigenen Werk einer sorgfältigen Endabnahme unterzogen. Sie sind daher mit einer zehn Jahre langen Garantie ab dem Rechnungsdatum gedeckt, mit Ausnahme der elektronischen Bauteile, fuer die eine Garantie von zwei Jahren ab Rechnungsdatum gewährt wird.
- 8.2 Die vom Verkäufer geleistete Garantie ist auf das Auswechseln des defekten Bauteils beschränkt, das dem Verkäufer zuvor zgesehenicht werden muss (alle Spesen, entstehenden Schäden, Zinsen oder sonstigen Vergütungen jeglicher Art sind daher strikt von der Garantieleistung ausgeschlossen). Die vom Verkäufer im Falle einer Reklamation innerhalb der vorgesehenen Maximalfrist der geltenden Gesetzgebung als defekt anerkannten, vom Verkäufer hergestellten Bauteile werden nur vom Verkäufer direkt ausgewechselt. Es ist auf jeden Fall selbstverständlich, dass die Haftung des Verkäufers sich auf Defekte beschränkt, die bei normalen Betriebsbedingungen und im Laufe eines korrekten Betriebs des Produkts entstehen.
- 8.3 Jeder von schlechtem Funktionieren des Produkts entstandene Schaden an Personen, Sachen und/oder Tieren muss innerhalb von 24 Stunden gemeldet werden, in der Mitteilung muss der Name des Geschädigten und eine ungefähre Angabe des Betrags des Schadens enthalten sein. Nachfolgend müssen zusammen mit dem Produkt, das den beanstandeten Schaden verursacht hat, Fotos des Schadens übermittelt werden, damit Labortests ausgeführt werden können. Alles, was zur Bestimmung des Umfangs des Schadens dient, muss bis zum Abschluss des Schadensfalls für den Verkäufer zur Verfügung stehen und aufbewahrt werden. Falls Reparatureingriffe ohne vorherige photographische Dokumentation ausgeführt werden, besteht kein Anspruch auf eine Garantieleistung vonseiten des Verkäufers.
- 8.4 Der Verkäufer lehnt jede Haftung ab für Schäden an Personen, Tieren und Sachen, die wegen mangelnden Einhaltens der Sicherheitsvorschriften, wegen nicht korrekter Installation und/oder Installation ohne angemessene Endabnahme vor der Inbetriebnahme entstanden sind.

**9. Reklamationen**

- 9.1 Der Käufer muss die Ware bei der Auslieferung genaustens kontrollieren und dem Verkäufer detailliert innerhalb von 8 (acht) Tagen ab der Übergabe/dem Empfang der Ware eventuell am Produkt festgestellte Defekte oder Qualitätsmängel mitteilen. Falls der Käufer eine derartige Mitteilung nicht innerhalb der genannten Frist vornimmt, wird das Produkt als definitiv angenommen und mit dem Auftrag übereinstimmend betrachtet. Es besteht die Möglichkeit, eventuelle versteckte Schäden oder Qualitätsmängel innerhalb 1 (einem) Jahr, 8 (acht) Tagen nach der Wahrnehmung derselben gemäß Art. 1495 und 1497 des italienischen Zivilgesetzbuchs zu beanstanden.

- 9.2 Eventuelle Reklamationen und/oder Beanstandungen in Bezug auf Defekte oder Qualitätsmängel berechtigen den Käufer nicht dazu, die Zahlungen der Lieferung zu unterlassen oder verspätet vorzunehmen.
- 9.3 Reklamationen und/oder Beanstandungen wegen Fehler oder Qualitätsmängel des Produkts sind ausschließlich an die Handelsabteilung des Verkäufers mit dem vollständig ausgefüllten Vordruck "CLAIM REQUEST FORM" zu adressieren [pim.ivar-group.com/Segnalazione\\_reclami/Segnalazione\\_reclami\\_en.pdf](http://pim.ivar-group.com/Segnalazione_reclami/Segnalazione_reclami_en.pdf).
- 9.4 Eine korrekte und zeitnahe Erledigung der Reklamation kann nur auf der Grundlage Ihrer Bekanntgabe detaillierter Informationen über die beanstandeten Fehler und/oder Qualitätsmängel stattfinden.
- 9.5 Falls die dem Verkäufer zurückerstatteten Produkte keine Fehler und/oder Qualitätsmängel aufweisen, die vom Käufer beanstandet wurden, muss dieser letzte dem Verkäufer einen Forfait-Betrag von 10% des Warenwerts als Kostenvergütung für die für das Reklamationsverfahren getragenen Ausgaben zahlen.
- 10. Liefertermine und Rückerstattung der Ware; Haftungsbeschränkung**
- 10.1 Die zwischen den Parteien vereinbarte Lieferfrist beginnt ab dem ersten Tag zu laufen, nach dem alle Vertragsklauseln erfolgreich vereinbart wurden und dem Verkäufer alle notwendigen Informationen zur Auftragsausführung zugekommen sind. Es ist auf jeden Fall selbstverständlich, dass die in den Angeboten des Verkäufers und/oder in den Auftragsbestätigungen angegebenen Lieferfristen eine ungefähre Angabe darstellen und nicht verpflichtend sind.
- 10.2 Falls eine Importlizenz seitens des Landes des Käufers notwendig ist, läuft die Lieferfrist ab dem Augenblick, in dem der Verkäufer schriftlich von der erfolgten Ausstellung der Lizenz informiert wird.
- 10.3 Die Warenlieferungen können auch im Falle von Teillieferungen vom Käufer nicht abgelehnt werden; Teillieferungen berechtigen den Käufer nicht dazu, den Auftrag zu stornieren.
- 10.4 Dem Verkäufer kann keine Verantwortung zugeschrieben werden, und dem Käufer steht daher nichts zu, wenn die Verspätung nicht vom Verkäufer selbst abhängig ist, wie im Falle von Verspätungen seitens von Dritten, eingeschlossen Lieferanten und Unterlieferanten, wegen höherer Gewalt, wie Mobilmachungen, Aufständen, Streiks oder Arbeitersperrungen, Kriegen, Epidemien, Stilllegungen, Unglücksfällen oder Störungen an den Maschinen, Bränden, Einstürzen, Überschwemmungen, Erdbeben, zu hohen Temperaturen, meteorologischen Phänomenen und generell in jedem anderen Fall, der die komplette oder teilweise Betriebsunfähigkeit der Werke des Verkäufers oder die Einstellung oder Verlangsamung der Produktion bewirkt.
- 10.5 Der Käufer kann auf jeden Fall die Verspätung der Lieferung nicht als Grund zur Vertragsauflösung benutzen.
- 10.6 Mit Ausnahme der Angaben unter Punkt 8. bezüglich der Garantie kann der Kunde auf keinen Fall an ihn geliefertes Material zurückgeben, ohne über die ausdrückliche Genehmigung des Verkäufers zu verfügen. Falls die Genehmigung des Verkäufers für eine Materialrückgabe vorliegt, muss der Käufer, um das Recht auf Vergütung zu haben, das Material gemäß folgender Bestimmungen zurückgeben:
- Das Material darf vom Käufer nicht verwendet worden sein und muss genau so zurückgegeben werden, wie es der Käufer erhalten hat;
  - Das Material muss innerhalb von 15 (fünfzehn) Tagen ab Rechnungsdatum zurückgegeben werden;
  - Das Material muss folgendermaßen an IVAR s.p.a. zurückgegeben werden: - durch den Käufer und mit Kosten und Risiken zu Lasten des Käufers - an das Werk in Prevalle (BS), via IV Novembre, 181.
- 11. Vertragsrücktritt und Einstellen der Lieferung**
- 11.1 Im Falle von unvorhergesehenen Umständen, höherer Gewalt und zufälligen Ereignissen (hierzu als Beispiel Streiks oder Arbeitersperrungen, mangelnde oder reduzierte Versorgung mit Rohmaterialien, Transportschwierigkeiten, Kriege, Aufstände, provozierte Unterbrüche der Kommunikationsmöglichkeiten, Störungen an den Anlagen des Verkäufers, etc.) hat der Verkäufer das Recht, von der vorliegenden Vereinbarung zurückzutreten und/oder die laufende Lieferung einzustellen, wenn derartige unvorhergesehene Vorkommnisse, wo immer sie auch eintreten, den Zustand der Märkte, den Wert der Währung, die Bedingungen der italienischen Industrie erheblich verändern, oder wenn Umstände eintreten, auch endogene Umstände, die nach unanfechtbarem Urteil des Verkäufers eine nutzbringende Weiterführung des Lieferverhältnisses nicht mehr zulassen.
- 11.2 Bei selbst teilweise Ausbleiben einer Zahlung der vom Verkäufer ausgestellten Rechnungen, auch wenn sie sich auf vorhergehende bereits ausgeführte Lieferungen beziehen, behält sich der Verkäufer das Recht vor, jene Lieferungen einzustellen, die sich auf die in Ausführung befindlichen Auftragsbestätigungen beziehen.
- 11.3 In jedem in den vorliegenden, allgemeinen Vertragsbedingungen vorgesehenen Fall bezüglich eines Rücktritts vom Vertrag und/oder der Lieferaussetzung hat der Käufer kein Recht auf Vergütungen, Beiträge, Entschädigungen oder Schadenersatz.
- 12. Geistiges Eigentumsrecht**
- 12.1 Jede Zeichnung oder jedes technische Dokument im Zusammenhang mit den Produkten des Verkäufers bleibt auch nach eventueller Übermittlung an den Käufer ausschließlich Eigentum des Verkäufers und darf vom Käufer nicht verwendet, kopiert, vervielfältigt oder an Dritte weitergeleitet werden, ohne dass die schriftliche Ermächtigung des Verkäufers dazu vorliegt.
- 12.2 Das Verwenden des Markenzeichens I.V.A.R. kann vom Käufer ohne vorherige schriftliche Genehmigung des Verkäufers I.V.A.R. spa nicht verwendet werden, eine unberechtigte Nutzung des Markenzeichens kann zu Schadenersatzansprüchen führen.
- 13. Anwendbare Gesetzgebung. Jurisdiktion. Gerichtsstand**
- 13.1 Der Vertrag unterliegt der italienischen Gesetzgebung, auch wenn er mit ausländischen Käufern abgeschlossen wird, oder wenn die Produkte ins Ausland geliefert werden sollen.
- 13.2 Jeder Rechtsstreit in Bezug auf den vorliegenden Vertrag und seine Auslegung und/oder Ausführung unterliegt ausschließlich der italienischen Jurisdiktion und wird ausschließlich dem für das Gebiet zuständigen Gerichtsstand Brescia zugeordnet.
- 14. Datenschutzgesetz**
- 14.1 Der Käufer bewilligt die Verarbeitung der personenbezogenen Daten, und erklärt, dass diesbezügliche Informationsschreiben erhalten zu haben, das vom Art. 13/14 der Verordnung (EU) 2016/679 (Datenschutz Grundverordnung) vorgesehen ist. Dies kann auf unserer Website [www.ivar-group.com/de/privacy](http://www.ivar-group.com/de/privacy) konsultiert werden.
- 14.2 Inhaber der Verarbeitung der personenbezogenen Daten des Käufers ist die Firma IVAR s.p.a., mit Sitz in Prevalle (BS), Via IV Novembre, 181.
- 14.3 Der Käufer kann seine Rechte jederzeit ausüben, indem er sich direkt an den für die Datenverarbeitung Verantwortlichen unter der E-Mail-Adresse [privacy@ivar.it](mailto:privacy@ivar.it) wendet.
- 14.4 IVAR s.p.a. garantiert, dass die personenbezogenen Daten des Käufers auf informative Weise und nur für die Zwecke und Auswirkungen des Kaufvertrags verwendet werden, der in diesen allgemeinen Geschäftsbedingungen geregelt ist. Die Datenverarbeitung erfolgt auf informative Weise und basiert auf dem Grundsatz des korrekten Verhaltens, der Rechtmäßigkeit, der Transparenz und des Schutzes der Privatsphäre, sowie der Rechte des Käufers.
- 14.5 Die Angabe der Daten ist obligatorisch, damit der Vertrag ausgeführt werden kann, sowie um den buchhaltungs- und steuertechnischen Verpflichtungen nachkommen zu können. Die eventuelle Verweigerung der Angabe dieser Daten bewirkt, dass der Vertrag durch Verschulden des Käufers nicht ausgeführt werden kann.
- 14.6 Die personenbezogenen Daten können außer an mit IVAR s.p.a. verbundenen Personen/Unternehmen (wie zum Beispiel Angestellte, Vertreter, Handelsvertreter, Filialen und /oder Sekundärwerke, etc.) an Banken, Versicherungsgesellschaften und allgemein an Berater und/oder Fachleute des Unternehmens weitergegeben werden.
- 15. Mitteilungen**
- Mit Ausnahme dessen, was in den weiteren allgemeinen Verkaufsbedingungen festgelegt ist, müssen alle Mitteilungen zwischen den Parteien schriftlich und an die im Vertrag angegebene Adresse des Empfängers übermittelt werden, das heißt an den Firmensitz des Empfängers und zwar mit Einschreibebrief mit Rückschein, per Telefax, via E-Mail, zertifizierte E-Mail oder von Hand übergeben.

Der Verkäufer (Datum, Stempel und Unterschrift)

Der Käufer erklärt, dass er nicht der „Benutzer“ ist, was die Anwendung der Vorschriften und Gesetze und/oder Verordnungen in Bezug auf das Verhältnis zwischen den Unternehmern und den Konsumenten ausschließt, und dass er gemäß der Artikel 1341 und 1342 des italienischen Zivilgesetzbuchs folgenden Klauseln besondere Aufmerksamkeit geschenkt hat:

- 2. Entstehung und Ausführung des Vertrags.
- 4. Zahlungsweise; Verlust der Fristbegünstigung (4.4); einseitiger Rücktritt; Verzugszinsen; Annahme der Rechnung und Schuldanerkennung (4.7).
- 6. Waren- und Risikoübergabe;
- 7. Transport und Verpackung; Verantwortung für Verlust und Beschädigungen.
- 8. Vertragsgarantie und Haftungsbeschränkung
- 9. Reklamationen.
- 10. Liefertermine und Rückerstattung der Ware; Haftungsbeschränkung.
- 11. Vertragsrücktritt und Einstellen der Lieferung;
- 13. Anwendbare Gesetzgebung, Jurisdiktion, Gerichtsstand;

und dass er sie ausdrücklich annimmt, indem er zur Kenntnis nimmt und akzeptiert, dass die Ausführung des Auftrags von Seiten der Firma IVAR s.p.a. die ausnahmslose Anwendung der vorliegenden allgemeinen Verkaufsbedingungen mit sich bringt.

Der Verkäufer (Datum, Stempel und Unterschrift)

**1. Premisas**

- 1.1 Los contratos de venta estipulados por IVAR s.p.a. (de aquí en adelante el "vendedor), en el ejercicio su actividad empresarial, están regulados por las presentes condiciones generales de contrato, salvo excepciones resultantes de acuerdo escrito y aprobadas expresamente por escrito por el Departamento comercial del vendedor.
- 1.2 Las posibles condiciones generales del comprador y, en concreto, las condiciones de compra, no se aplicarán a los contratos de venta estipulados por el vendedor si no se han aceptado explícitamente por parte del Departamento comercial del vendedor; en tal caso, sin embargo, y salvo excepción escrita, dichas condiciones no excluirán la eficacia de estas condiciones generales de contrato.
- 1.3 La posible nulidad y/o ineficacia de una o varias disposiciones de estas condiciones generales de venta no influye sobre la validez del contrato en su conjunto.
- 1.4 Estas condiciones generales de venta se entienden leídas y aceptadas integralmente por el comprador con la concesión del pedido de compra.

**2. Formación del contrato y su ejecución**

- 2.1 Los pedidos y/o los compromisos asumidos por los representantes, agentes y/u otros colaboradores del vendedor no tienen ningún poder para vincular al vendedor mismo; de ello resulta que todos los pedidos gestionados por dichos representantes, agentes o colaboradores adquieren validez y eficacia sólo tras la confirmación escrita del Departamento comercial del vendedor.
- 2.2 Cualquier modificación del pedido será válida y vinculará al vendedor sólo tras la aprobación escrita del Departamento comercial del vendedor.
- 2.3 La ejecución del contrato podrá ser suspendida en cualquier momento en caso de que cambien las condiciones patrimoniales del comprador, con arreglo a los efectos del art. 1461 del Código Civil italiano, salvo el resarcimiento del daño. Se atribuye al vendedor la facultad de solicitar garantías de pago idóneas, también durante la ejecución del pedido o del contrato. La no presentación de las garantías solicitadas constituirá motivo de rescisión del contrato con arreglo al art.1456 del Código Civil italiano.

**3. Catálogos y listados de precios**

- 3.1 Los datos, las medidas, los artículos, los precios, las características, las prestaciones y todos los demás datos presentes en los catálogos, listados de precios, folletos, circulares, etc. del vendedor tienen un carácter indicativo; pueden variar sin ningún preaviso y tienen valor vinculante para el vendedor únicamente en caso de indicación expresa de aceptación/confirmación del pedido.
- 3.2 Los listados de precios no constituyen una oferta; son puramente indicativos y el vendedor puede modificarlos de forma unilateral sin preaviso.
- 3.3 Los precios se consideran normalmente, salvo acuerdos diferentes, "franco fábrica del vendedor - exw", embalaje incluido. Por lo tanto, se consideran a cargo del comprador los impuestos y los derechos vigentes en el momento de la entrega. Los precios no comprenden prestaciones y cargas no mencionadas.
- 3.4 Los gastos de seguro de la mercancía son a cargo del comprador, como también los posibles gastos y derechos arancelarios debidos al retraso en el despacho aduanero o por otras causas.

**4. Modos de pago; pérdida del beneficio del plazo; resolución unilateral; intereses de demora; aceptación de la factura y reconocimiento de la deuda**

- 4.1 Salvo excepciones escritas, todos los pagos deben realizarse en la sede del vendedor y en Euros. Las letras de cambio u otros medios de pago acordados no conllevan de ninguna manera cambios o excepciones a esta norma.
- 4.2 Los precios que aparecen en el listado de precios del vendedor se consideran al neto de I.V.A., que se aplicará a la tasa vigente en el momento de la fecha de facturación.
- 4.3 Para todo día de retraso respecto al plazo de pago acordado, se contarán los intereses de mora con arreglo al Decreto Ley 231/2002.
- 4.4 En caso de pago diferido o por plazos del importe de la factura, el incumplimiento de un plazo conlleva la pérdida automática del beneficio del plazo, la exigibilidad inmediata de todo el pago y la aplicación de los intereses de demora con arreglo al DLgs 231/2002.
- 4.5 caso de quiebra o de admisión del comprador a procedimientos de insolvencia y, asimismo, en caso de sujeción del comprador a procedimientos ejecutivos y/o de protestos, las deudas del comprador se consideran exigibles inmediatamente y el vendedor tendrá la facultad de rescindir el contrato, con arreglo al art. 1373 del Código Civil italiano, mediante el envío de carta certificada con acuse de recibo o de correo electrónico certificado (P.E.C.).
- 4.6 En el caso de que se haya acordado una compensación bancaria, son a cargo del comprador tanto los intereses de descuento como los gastos y comisiones correspondientes; los intereses se contarán al tipo oficial de descuento con el aumento de tres unidades. En caso de falta de pago o falta de aceptación de un efecto bancario, las sumas debidas serán exigibles inmediatamente sean cuales sean las condiciones acordadas previamente.
- 4.7 Una vez transcurridos de diez (10) días a partir de la recepción de la factura, sin que se haya presentado ninguna contestación escrita de cualquier tipo por parte del comprador en relación a la suma de dinero en ella indicada, dirigida al Departamento comercial del vendedor, se considerará que se ha producido el reconocimiento de la deuda por parte del cliente con arreglo al art. 1988 del Código Civil italiano.

**5. Puesta a disposición "franco fábrica del vendedor - exw" y envío de la mercancía**

El vendedor comunicará al comprador, mediante carta y/o telegrama y/o fax y/o e-mail y/o correo certificado (P.E.C.), la fecha de puesta a disposición de la mercancía en la fábrica del vendedor. En el caso de que el comprador no recoja la mercancía en la fábrica del vendedor antes de diez (10) días a partir de dicha comunicación, el vendedor procederá a enviar la mercancía a la sede del comprador especificada por el mismo. En caso de envío con retraso que no dependa de cuestiones propias, el vendedor tendrá la facultad del cargar al comprador los posibles gastos de almacenamiento, mantenimiento, custodia y seguro de la mercancía.

**6. Entrega y transferencia de los riesgos**

La entrega del material se considera efectuada "franco fábrica del vendedor - exw" y "franco a bordo". Toda responsabilidad del vendedor cesa con la entrega al comprador o al transportista; resulta de ello que el material viaja a riesgo y peligro del comprador. En el caso de que el material se haya vendido "entregado franco en el punto de destino" por acuerdos específicos que hayan intervenido con el comprador, no se aceptarán en cualquier caso reclamaciones por posibles robos, daños o alteraciones. Los posibles acuerdos con el transportista, incluidos en ellos el monto y el pago del precio de transporte, se entenderán siempre concluidos en nombre y por cuenta del comprador, que desde ahora acepta y ratifica el obrar del vendedor.

**7. Transporte y embalajes; responsabilidad por pérdidas y averías**

- 7.1 La responsabilidad de la gestión del transporte del material desde la fábrica del vendedor hasta el lugar de destino se entiende normalmente a cargo del comprador, salvo acuerdo diferente que resulte en la confirmación del pedido. En todos los casos, los gastos de transporte corren a cargo del comprador. El comprador asume todos los riesgos inherentes al transporte desde la entrega del material al transportista o camionero, incluso en caso de reserva del derecho de propiedad.
- 7.2 El vendedor se encargará del embalaje según las reglas de uso. El vendedor queda exonerado de toda responsabilidad por pérdidas o fallos que no dependan del dolo o culpa grave del vendedor y que no sean consecuencia directa e inmediata de su conducta. Para tipos de embalaje específicos, se incluirán en la factura los precios extra indicados en el listado de precios, de estar presentes, o en la confirmación del pedido.

**8. Garantía convencional y limitaciones de responsabilidad**

- 8.1 Todos los productos del vendedor se prueban cuidadosamente en la fábrica; así están cubiertos por la garantía durante un período de diez años a partir de la fecha de emisión de la factura, a excepción de los componentes electrónicos, que están cubiertos por la garantía durante un período de dos años a partir de la fecha de la factura.
- 8.2 La garantía del vendedor se limita a la sustitución pura y simple de la pieza defectuosa, que tiene que haberse devuelto previamente al vendedor (y están por tanto excluidas taxativamente de la cobertura de la garantía los posibles gastos, daños, intereses o indemnización de todo tipo). En todo caso, las piezas de fabricación del vendedor reconocidas por él mismo como defectuosas, previa reclamación formulada por el comprador antes del plazo máximo previsto por la normativa en vigor, serán sustituidas sólo y exclusivamente por parte del vendedor. Queda entendido, de todas formas, que la responsabilidad del vendedor se limita a los defectos que se manifiesten en las condiciones de empleo normal y a lo largo de un uso correcto del producto.
- 8.3 Cualquier daño a personas, cosas y/o animales provocado por el mal funcionamiento del producto debe notificarse antes de veinticuatro (24) horas, comunicando el nombre de la persona afectada y la cuantía aproximada del daño. Deberán enviarse sucesivamente las fotografías que comprueben el daño, junto con el producto que ha provocado el daño lamentado para el examen de laboratorio. Todo lo que pueda evidenciar la entidad del daño tiene que mantenerse a disposición del vendedor hasta el cierre del expediente. Cualquier intervención de restablecimiento, llevada a cabo sin la documentación fotográfica preventiva del daño, conllevará a la pérdida del derecho de garantía con el vendedor.
- 8.4 El vendedor declina toda responsabilidad por posibles daños a personas, animales o cosas que deriven del uso de los productos sin el cumplimiento de las disposiciones de seguridad o de todas formas no instalados correctamente y/o instalados sin realizar los controles de uso debidos.

**9. Reclamaciones**

- 9.1 El comprador debe examinar con atención la mercancía en el momento de su recepción y comunicar detalladamente al vendedor, antes de ocho (8) días a partir de la entrega/recepción, posibles vicios y/o problemas de calidad encontrados en el producto. En el caso de que el comprador no realice dicha comunicación según los plazos recién indicados, el producto se considerará aceptado definitivamente y conforme al pedido; dejando en firme la posibilidad, antes de un (1) año a partir de la entrega del producto bajo pena de prescripción de la acción, de denunciar posibles vicios ocultos y/o la falta de calidad antes del plazo de vencimiento de ocho (8) días a partir de descubrir los mismos con arreglo a lo previsto por los artículos 1495 y 1497 del Código Civil.
- 9.2 Las posibles reclamaciones y/o contestaciones acerca de vicios o problemas de calidad del producto no atribuirán al comprador el derecho de omitir o retrasar los pagos del suministro.

- 9.3 Las reclamaciones y/o quejas relativas a vicios o problemas de calidad del producto deberán enviarse únicamente al Departamento Comercial del vendedor, rellenando en todas sus partes el formulario "CLAIM REQUEST FORM", que es posible descargar online [pim.ivar-group.com/Segnalazione\\_reclami/Segnalazione\\_reclami\\_en.pdf](http://pim.ivar-group.com/Segnalazione_reclami/Segnalazione_reclami_en.pdf).
- 9.4 Para una gestión de la reclamación rápida y correcta, es fundamental comunicar toda la información detallada relativa a los defectos y/o a los problemas de calidad objeto de la reclamación misma.
- 9.5 En el caso de que los productos devueltos al vendedor no presenten los vicios y/o los problemas de calidad contestados por el comprador, éste deberá pagar al vendedor la suma establecida del 10% del valor de la mercancía a modo de reembolso de los gastos derivados de la gestión del procedimiento de reclamación.

#### 10. Términos de entrega y devolución de la mercancía; limitación de responsabilidad

- 10.1 El plazo de entrega establecido entre las partes tiene validez a partir del día siguiente al día en que se llegue a un acuerdo sobre todos los elementos del contrato y el vendedor haya recibido toda la información necesaria para realizar la entrega. Queda entendido que los plazos de entrega indicados en las ofertas del vendedor y/o en las confirmaciones de los pedidos son puramente indicativos y no vinculantes.
- 10.2 En el caso de que se requiera una licencia de importación por parte del país comprador, el plazo de entrega tendrá efecto a partir del momento en que el vendedor ha sido informado por escrito de que se ha obtenido la concesión de la licencia.
- 10.3 La entrega de la mercancía, incluso parcial, no puede ser rechazada por el comprador; las entregas parciales de mercancía no atribuyen al comprador el derecho de cancelar el pedido.
- 10.4 No podrá atribuirse ninguna responsabilidad al vendedor, y nada se deberá por tanto al comprador, allí donde el retraso en la entrega no pueda imputarse al vendedor, como en caso de retraso de terceros, incluidos proveedores y subcontratistas, causas de fuerza mayor como movilizaciones, motines, huelgas o cierres patronales, guerras, epidemias, cierre, accidentes o fallos a las máquinas o herramientas, incendios, hundimientos, inundaciones, terremotos, temperaturas excesivas, eventos meteorológicos y cualquier otro caso en general que conlleve la inactividad total o parcial de las fábricas del vendedor o la parada o la ralentización de la producción.
- 10.5 De todas formas, el comprador no podrá valerse del retraso en la entrega para rescindir el contrato.
- 10.6 A excepción de lo previsto en el número 8 en tema de garantía, el cliente no podrá devolver material entregado por ninguna razón sin la autorización expresa y escrita del vendedor. En el caso de obtener la autorización para la devolución, el comprador tendrá que devolver el material según los siguientes modos, para tener derecho al reembolso del pago efectuado para la compra:
- el material no habrá sido utilizado por el comprador y tendrá que devolverse en las mismas condiciones en las que lo recibió;
  - la devolución del material tendrá que producirse antes de quince (15) días a partir de la fecha de la factura de compra;
  - el material tendrá que devolverse a I.V.A.R. S.p.A. - a cargo, gastos y riesgo del comprador - en la sede de Prevalle (BS), via IV Novembre, 181.

#### 11. Renuncia y suspensión del suministro

- 11.1 En el caso de que eventos imprevistos, fuerza mayor o caso fortuito (como, por ejemplo, huelgas y cierres patronales, falta de suministro o suministro reducido de materias primas, dificultad de transporte, guerras, insurrecciones, interrupciones de la comunicación sin depender de como hayan sido provocadas, averías en las instalaciones del vendedor, etc.), el vendedor tendrá la facultad de renunciar al presente acuerdo y/o suspender el suministro en curso cuando dichos eventos imprevistos, sea cual sea el lugar donde se produzcan, alteren de manera sustancial el estado de los mercados, el valor de la divisa, las condiciones de la industria italiana, o se produzcan circunstancia incluso endógenas que, a juicio incuestionable del vendedor, no permitan la continuación útil del suministro.
- 11.2 En caso de incumplimiento del pago, incluso parcial, de las facturas emitidas por el vendedor, también para suministros de productos anteriores o ya efectuados, el vendedor se reserva el derecho de suspender los suministros de productos relativos a las confirmaciones de pedido en curso de ejecución.
- 11.3 En todo caso de resolución del contrato y/o suspensión del suministro de material, tal como está previsto por estas condiciones generales del contrato, el comprador no tendrá derecho a indemnizaciones, compensaciones, reembolsos o resarcimiento de daños.

#### 12. Derechos de propiedad intelectual

- 12.1 Cualquier plano o documento técnico correspondiente a los productos del vendedor, incluso si entregado al comprador, sigue siendo de propiedad exclusiva del vendedor y el comprador no puede usarlo, copiarlo, reproducirlo, transmitirlo o comunicarlo a terceros sin la autorización previa y escrita del vendedor.
- 12.2 Cualquier uso de la marca I.V.A.R. por parte del comprador debe ser previamente autorizado por escrito por el vendedor, bajo pena de compensación por daños y perjuicios por el uso indebido de la marca.

#### 13. Ley aplicable. Jurisdicción. Juzgado competente

- 13.1 El contrato, incluso en caso de que se estipule con compradores de nacionalidad extranjera y en caso de productos suministrados en el extranjero, estará disciplinado por la Ley italiana.
- 13.2 Toda controversia correspondiente a este contrato y a su interpretación y/o ejecución está sujeta a la jurisdicción exclusiva italiana y se atribuye en vía exclusiva a la competencia territorial del Juzgado de Brescia.

#### 14. Código sobre la Intimidad

- 14.1 El comprador consiente al tratamiento de sus datos de carácter personal, reconociendo haber recibido la nota informativa prevista por los Arts. 13 y 14 del Reglamento (UE) 2016/679 (Reglamento general de protección de datos) que está disponible en nuestro sitio web [www.ivar-group.com/es/privacy](http://www.ivar-group.com/es/privacy).
- 14.2 El titular del tratamiento de los datos del comprador es la sociedad I.V.A.R. s.p.a., con sede en Prevalle (BS), Via IV Novembre, 181.
- 14.3 El comprador podrá ejercer en todo momento los derechos, contactando directamente al titular del tratamiento en la dirección de correo electrónico: [privacy@ivar.it](mailto:privacy@ivar.it)
- 14.4 I.V.A.R. s.p.a. garantiza que los datos de carácter personal del comprador se tratarán de forma automatizada sólo para el fin y los efectos del contrato de venta regulado por estas condiciones generales de contrato. El tratamiento se llevará a cabo de forma automatizada y se caracterizará por los principios de corrección, licitud, transparencia, de protección de la intimidad y de los derechos del comprador.
- 14.5 La concesión de los datos es obligatoria para dar curso a la ejecución del contrato y para cumplir con las obligaciones contables y fiscales; el posible rechazo a facilitar dichos datos llevará a la imposibilidad de ejecutar el contrato por culpa del comprador.
- 14.6 Los datos personales podrán ser comunicados, además que a los sujetos vinculados con la sociedad I.V.A.R. s.p.a. (por ej. empleador, agentes, proveedores, filiales y/o sedes secundarias, etc.), a bancos, compañías de seguros y de todas formas, en general, a asesores y/o profesionales de la misma sociedad.

#### 15. Comunicaciones

Excepto para lo previsto diversamente en las demás condiciones generales de venta, todas las comunicaciones entre las partes tendrán que realizarse por escrito y enviarse a la dirección del destinatario indicado en el contrato o bien en la sede legal del destinatario por medio de carta certificada con acuse de recibo, telefax, correo electrónico, correo electrónico certificado (P.E.C.) o entrega a mano.

El Comprador (fecha, sello y firma)

El comprador, al dar acto de no ostentar la calidad de "consumidor", con la consiguiente exclusión de la aplicación de las disposiciones y disciplinas de ley y/o de reglamento relativas a las relaciones entre empresarios y consumidores, declara haber prestado especial atención a las siguientes cláusulas con arreglo a los artículos 1341 y 1342 del Código Civil italiano:

- 2. Formación del contrato y su ejecución;
- 4. Modos de pago; pérdida del beneficio del plazo (4.4.); resolución unilateral (4.5.); intereses de demora; aceptación de la factura y reconocimiento de la deuda (4.7.);
- 6. Entrega y transferencia de los riesgos;
- 7. Transporte y embalajes; responsabilidad por pérdidas y averías (7.2.);
- 8. Garantía convencional y limitaciones de responsabilidad;
- 9. Reclamaciones.
- 10. Términos de entrega y devolución de la mercancía; limitación de responsabilidad (9.4.);
- 11. Renuncia y suspensión del suministro;
- 13. Ley aplicable. Jurisdicción. Juzgado competente;

y de aprobarlas específicamente, reconociendo que la ejecución del pedido por parte de I.V.A.R. s.p.a. conlleva la aplicación integral de estas condiciones generales de venta.

El Comprador (fecha, sello y firma)

# IVAR APP

is always with you.



**I.V.A.R. S.p.A.**

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