INTERNATIONAL CATALOGUE 26

IVAR

HYDRONIC IDEAS

INTERNATIONAL CATALOGUE

2026

HYDRONIC SOLUTIONS FOR EVERY NEED

IVAR designs, develops and manufactures **highly energy-efficient heating and plumbing systems**. We have over 11,000 catalogue items - mass-produced products and unique items - in addition to customised systems and combinations of complex products.

The Group's international presence is provided by its **branches in various countries** (including Belgium, China, the United Kingdom, the Czech Republic, France, Romania, Slovakia, Spain, and Tunisia), but the headquarters and production remain **IN ITALY**, with our **zero environmental impact facility**.

OUR VALUES

INNOVATION

The integration of advanced technologies, together with a constant improvement of processes, guarantees high productive efficiency and the proactive predictions of market needs, offering increasingly advanced products.

SHARING

The sharing of experiences and of knowledge is a fundamental pillar of our company's culture, because it is only through exchange and access to quality information that it is possible to build better solutions.

QUALITY

Continuous research, vertical integration and a rigorous quality management ISO 9001, drive each and every stage of our work.

SUSTAINABILITY

The respect and protection of the environment are strategic levers for the innovation and development of products. Innovation does not only mean creating something new, but rather doing it in the most responsible way.



Among the first manufacturers of plumbing components and systems in Italy, we have mapped all our products to select those **THAT ALLOW DESIGNERS TO BEST RESPOND TO THE SPECIFIC REQUIREMENTS** of the two protocols.

LEED | *Leadership in Energy and Environmental Design*

It is the certification system for sustainable buildings and is recognized worldwide as a way to achieve the goals of sustainability and leadership developed by USGBC.

BREEAM | *Building Research Establishment Environmental Assessment Method*

It is a globally recognized suite of validation and certification systems for a sustainably built environment, developed by BRE. BREEAM certified buildings have helped to improve asset performance at every stage, from design to construction, use and renovation.

LINEA ARANCIO
TECHNICAL SUPPORT

linea.arancio@ivar.it

LINEA ARANCIO is the direct line designed by IVAR to get in touch with professionals in an easy and fast way.
Our technical advice team can always suggests the best solutions for your needs.



SOLUTIONS RESEARCH



ACCURATE QUOTATION



SUPPORT BEFORE, DURING AND AFTER INSTALLATION



TRAINING



BIM



IVAR CLOUD





Radiator and fan-coil valves *Page 7*



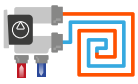
Fittings *Page 65*



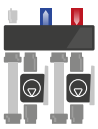
Pipes *Page 119*



Manifolds *Page 129*



Radiant systems *Page 227*



Thermal power station *Page 261*



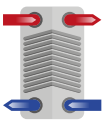
Water treatment *Page 311*



Hydraulic balancing *Page 335*



Sanitary systems *Page 353*



Satellite modules *Page 379*



Metering systems *Page 397*



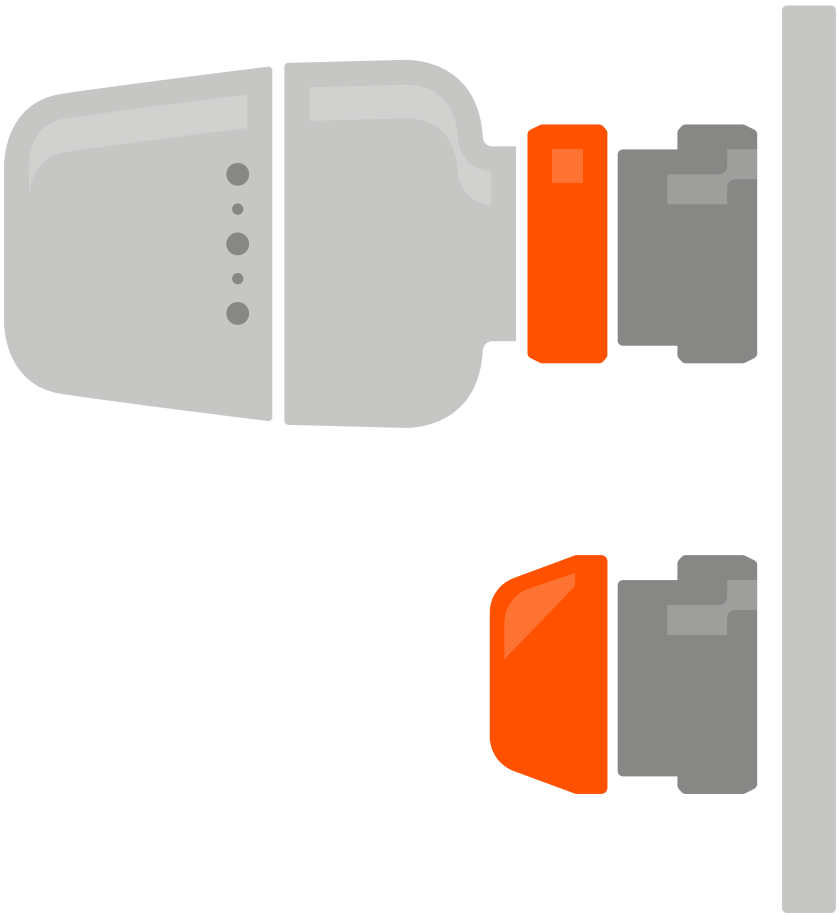
Regulation and control *Page 429*



Solar systems *Page 449*



RADIATOR AND FAN-COIL VALVES



INDEX



Thermostatic heads, valves and lockshields OPTIMA series 10



Thermostatic heads 20



Thermostatic valves HARMONIA series 24



Thermostatic valves 28



Manual valves 43



Lockshields 46



Radiator valves BASIC series 48



Radiator kits 50



H valves 52



4-way distributors 54



Single-pipe thermostatic valves 56



Single-pipe manual valves 57



Accessories and spare parts for single-pipe valves 58



Accessories and spare parts 59



Fittings 60



Fan-coil valves 62

OPTIMA

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.

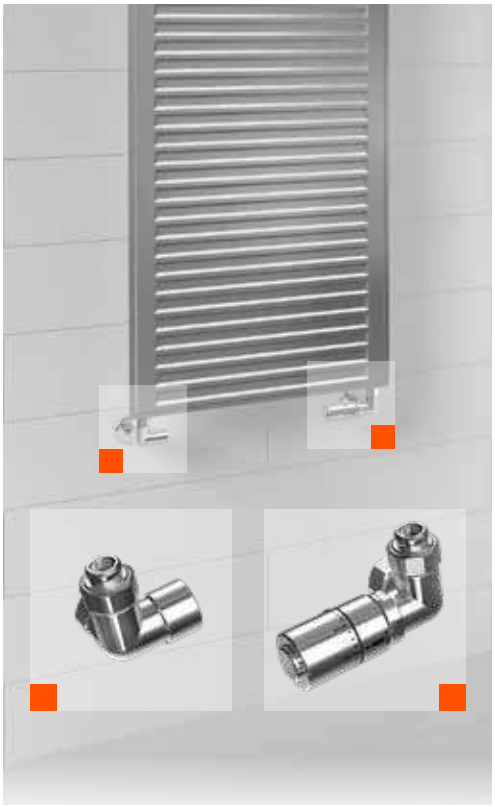
Materials
Valve body: brass CW617N
Seals and O-rings: peroxide EPDM
Head knob: brass CW508L
Head thermostat: liquid expansion type

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
Response time Z: < 40 min

+ 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
- Ring nut can be replaced even when the system is working

OPTIMA



Finishes example



CHROME
530040



INOX
530040INOX



WHITE
530040WHITE



BLACK
ON REQUEST



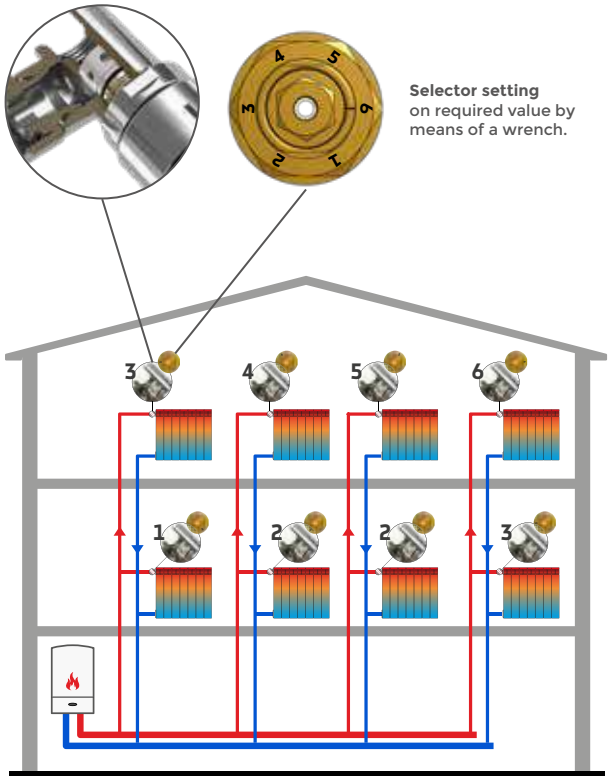
SILVER
ON REQUEST

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IVAR

FOCUS: Preregulation

All OPTIMA 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 wrench.

FOCUS: Ring nut substitution

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





Valves versions example



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DH 01 CHROME



Thermostatic head OPTIMA series with incorporated command and liquid expansion sensor.
Z = Response time.

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

DH 01 INOX



Thermostatic head OPTIMA series with incorporated command and liquid expansion sensor.
Z = Response time.

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

DH 01 WHITE



Thermostatic head OPTIMA series with incorporated command and liquid expansion sensor.
Z = Response time.

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

AD 03 M



Manual head OPTIMA series.

Code	Color	Class	Packaging
530033M	■	RA	40 / 160
530033MINOX	■	RA	40 / 160
530033MWHITE	□	RA	40 / 160

AD 03

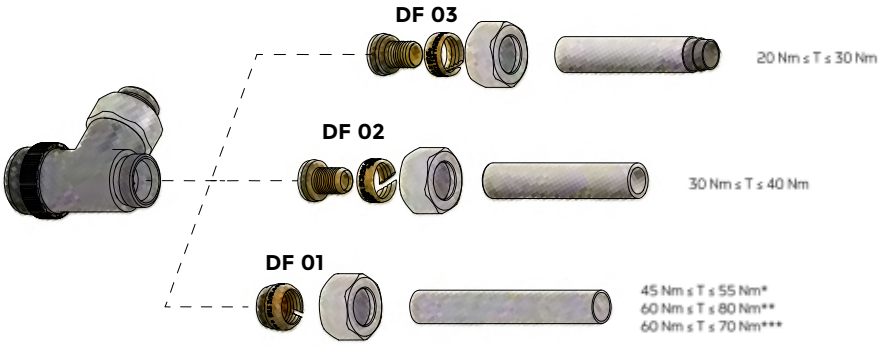


Cap for lockshields and H valves OPTIMA series.

Code	Color	Class	Packaging
530033	■	RA	40 / 160
530033INOX	■	RA	40 / 160
530033WHITE	□	RA	40 / 160

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



T = Max. tightening torque. |*Soft copper. |**Semi-hard copper. |***Mild steel.

DF 01

Screw fitting M24x1,5 for copper and mild steel pipe OPTIMA series.



Code	Size	Color	Class	Packaging
530053	M24x1,5 x 10/1		RA	40 / 160
530053INOX	M24x1,5 x 10/1		RA	40 / 160
530047	M24x1,5 x 12/1		RA	40 / 160
530047INOX	M24x1,5 x 12/1		RA	40 / 160
530048	M24x1,5 x 14/1		RA	40 / 160
530048INOX	M24x1,5 x 14/1		RA	40 / 160
530014	M24x1,5 x 15/1		RA	40 / 160
530014INOX	M24x1,5 x 15/1		RA	40 / 160
530049	M24x1,5 x 16/1		RA	40 / 160
530049INOX	M24x1,5 x 16/1		RA	40 / 160

DF 02

Screw fitting M24x1,5 for polyethylene pipe OPTIMA series.



Code	Size	Color	Class	Packaging
530052	M24x1,5 x 14/2		RA	40 / 160
530052INOX	M24x1,5 x 14/2		RA	40 / 160
530066	M24x1,5 x 16/1,5		RA	40 / 160
530066INOX	M24x1,5 x 16/1,5		RA	40 / 160
530015	M24x1,5 x 16/2		RA	40 / 160
530015INOX	M24x1,5 x 16/2		RA	40 / 160

DF 03

Screw fitting M24x1,5 for multilayer pipe OPTIMA series.



Code	Size	Color	Class	Packaging
530046	M24x1,5 x 14/2		RA	40 / 160
530046INOX	M24x1,5 x 14/2		RA	40 / 160
530016	M24x1,5 x 16/2		RA	40 / 160
530016INOX	M24x1,5 x 16/2		RA	40 / 160
530063	M24x1,5 x 16/2,25		RA	40 / 160
530063INOX	M24x1,5 x 16/2,25		RA	40 / 160

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DV 020



Angle thermostatic valve with pre-regulation OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530040	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530040INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530040WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24

DV 030



Angle lockshield OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530041	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530041INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530041WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24

DV 013



Straight thermostatic valve with pre-regulation OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530008	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530008INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530008WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24

DV 023



Straight lockshield OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530009	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530009INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530009WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24

DV 032



Reverse thermostatic valve with pre-regulation OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530044	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530044INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530044WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24



It is possible to order these items with manual head; please use the same reference code and add "M" after the last figure.

DV 042



Reverse lockshield OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530045	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530045INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530045WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24



Fitting for copper pipe OPTIMA series >> p. 13



Fitting for multilayer pipe OPTIMA series >> p. 13



Fitting for polyethylene pipe OPTIMA series >>p. 13

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DV 019



Angle thermostatic valve with pre-regulation OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530038	1/2" F x 1/2" M O-ring		RA	1 / 24
530038INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530038WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24

DV 029



Angle lockshield OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530039	1/2" F x 1/2" M O-ring		RA	1 / 24
530039INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530039WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24

DV 011



Straight thermostatic valve with pre-regulation OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530024	1/2" F x 1/2" M O-ring		RA	1 / 24
530024INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530024WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24

DV 021



Straight lockshield OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530025	1/2" F x 1/2" M O-ring		RA	1 / 24
530025INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530025WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24

DV 031



Reverse thermostatic valve with pre-regulation OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530042	1/2" F x 1/2" M O-ring		RA	1 / 24
530042INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530042WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24



It is possible to order these items with manual head; please use the same reference code and add "M" after the last figure.

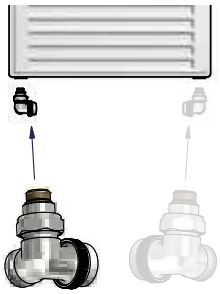
DV 041

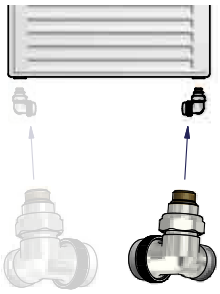


Reverse lockshield OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530043	1/2" F x 1/2" M O-ring		RA	1 / 24
530043INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530043WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24

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DV 018



Co-axial left thermostatic valve with pre-regulation OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530012	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530012INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530012WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24

DV 017



Co-axial left thermostatic valve with pre-regulation OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530028	1/2" F x 1/2" M O-ring		RA	1 / 24
530028INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530028WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24



It is possible to order these items with manual head; please use the same reference code and add "M" after the last figure.

DV 026



Co-axial right lockshield OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530011	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530011INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530011WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24

DV 025



Co-axial right lockshield OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530027	1/2" F x 1/2" M O-ring		RA	1 / 24
530027INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530027WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24



Fitting for copper pipe OPTIMA series >> p. 13

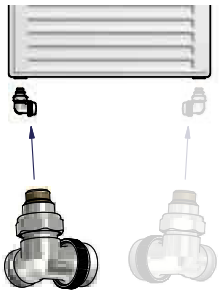


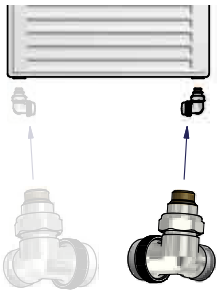
Fitting for multilayer pipe OPTIMA series >> p. 13



Fitting for polyethylene pipe OPTIMA series >>p. 13

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DV 028

Co-axial left lockshield OPTIMA series with male connection.



Code	Size	Color	Class	Packaging
530013	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530013INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530013WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24

DV 027

Co-axial left lockshield OPTIMA series with female connection.



Code	Size	Color	Class	Packaging
530029	1/2" F x 1/2" M O-ring		RA	1 / 24
530029INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530029WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24

DV 016

Co-axial right thermostatic valve with pre-regulation OPTIMA series with male connection.



Code	Size	Color	Class	Packaging
530010	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530010INOX	M24x1,5 x 1/2" M O-ring		RA	1 / 24
530010WHITE	M24x1,5 x 1/2" M O-ring		RA	1 / 24

DV 015

Co-axial right thermostatic valve with pre-regulation OPTIMA series with female connection.



Code	Size	Color	Class	Packaging
530026	1/2" F x 1/2" M O-ring		RA	1 / 24
530026INOX	1/2" F x 1/2" M O-ring		RA	1 / 24
530026WHITE	1/2" F x 1/2" M O-ring		RA	1 / 24



It is possible to order these items with manual head; please use the same reference code and add "M" after the last figure.



Fitting for copper pipe OPTIMA series >> p. 13



Fitting for multilayer pipe OPTIMA series >> p. 13



Fitting for polyethylene pipe OPTIMA series >>p. 13

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THERMOSTATIC HEADS, VALVES AND LOCKSHIELDS OPTIMA SERIES

DV 104



Double pipe H thermostatic valve for wall delivery with pre-regulation OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530007	M24x1,5 x 1/2" M O-ring	■	RA	1 / 14
530007INOX	M24x1,5 x 1/2" M O-ring	■	RA	1 / 14
530007WHITE	M24x1,5 x 1/2" M O-ring	□	RA	1 / 14

DV 102



Double pipe H thermostatic valve for wall delivery with pre-regulation OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530006	1/2" F x 1/2" M O-ring	■	RA	1 / 14
530006INOX	1/2" F x 1/2" M O-ring	■	RA	1 / 14
530006WHITE	1/2" F x 1/2" M O-ring	□	RA	1 / 14

DV 104 B



Single/double pipe H thermostatic valve (with adjustable bypass 50-100%) for wall delivery with pre-regulation OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530007B	M24x1,5 x 1/2" M O-ring	■	RA	1 / 14
530007INOXB	M24x1,5 x 1/2" M O-ring	■	RA	1 / 14
530007WHITEB	M24x1,5 x 1/2" M O-ring	□	RA	1 / 14

DV 102 B



Single/double pipe H thermostatic valve (with adjustable bypass 50-100%) for wall delivery with pre-regulation OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530006B	1/2" F x 1/2" M O-ring	■	RA	1 / 14
530006INOXB	1/2" F x 1/2" M O-ring	■	RA	1 / 14
530006WHITEB	1/2" F x 1/2" M O-ring	□	RA	1 / 14

DV 103



Double pipe H thermostatic valve for floor delivery with pre-regulation OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530005	M24x1,5 x 1/2" M O-ring	■	RA	1 / 14
530005INOX	M24x1,5 x 1/2" M O-ring	■	RA	1 / 14
530005WHITE	M24x1,5 x 1/2" M O-ring	□	RA	1 / 14

DV 101



Double pipe H thermostatic valve for floor delivery with pre-regulation OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530004	1/2" F x 1/2" M O-ring	■	RA	1 / 14
530004INOX	1/2" F x 1/2" M O-ring	■	RA	1 / 14
530004WHITE	1/2" F x 1/2" M O-ring	□	RA	1 / 14

DV 103 B



Single/double pipe H thermostatic valve (with adjustable bypass 50-100%) for floor delivery with pre-regulation OPTIMA series with male connection.

Code	Size	Color	Class	Packaging
530005B	M24x1,5 x 1/2" M O-ring	■	RA	1 / 14
530005INOXB	M24x1,5 x 1/2" M O-ring	■	RA	1 / 14
530005WHITEB	M24x1,5 x 1/2" M O-ring	□	RA	1 / 14

DV 101 B



Single/double pipe H thermostatic valve (with adjustable bypass 50-100%) for floor delivery with pre-regulation OPTIMA series with female connection.

Code	Size	Color	Class	Packaging
530004B	1/2" F x 1/2" M O-ring	■	RA	1 / 14
530004INOXB	1/2" F x 1/2" M O-ring	■	RA	1 / 14
530004WHITEB	1/2" F x 1/2" M O-ring	□	RA	1 / 14



It is possible to order these items with manual head; please use the same reference code and add "M" after the last figure.



It is possible to order these items with manual head; please use the same reference code and add "M" after the last figure.



Fitting for copper pipe OPTIMA series >> p. 13



Fitting for multilayer pipe OPTIMA series >> p. 13



Fitting for polyethylene pipe OPTIMA series >>p. 13

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AD 02

ABS single plate OPTIMA series (in 2 pieces) .



Code	Size	Color	Class	Packaging
530031	Ø15		RA	40 / 160

AD 01

ABS double plate OPTIMA series (in 2 pieces) .



Code	Size	OC distance	Color	Class	Packaging
530030	Ø15	50 mm		RA	20 / 80

AD 06

Complete pipe covering kit OPTIMA series with brass single plates.



Code	Size	Color	Class	Packaging
530061	Ø18 x 70 mm		RA	1
530061WHITE	Ø18 x 70 mm		RA	1
530062	Ø18 x 160 mm		RA	1
530062WHITE	Ø18 x 160 mm		RA	1

AD 05

Complete pipe covering kit OPTIMA series with brass double plate.



Code	Size	OC distance	Color	Class	Packaging
530059	Ø18 x 70 mm	50 mm		RA	1
530059WHITE	Ø18 x 70 mm	50 mm		RA	1
530060	Ø18 x 160 mm	50 mm		RA	1
530060WHITE	Ø18 x 160 mm	50 mm		RA	1

AD 04

Brass single plate OPTIMA series.



Code	Size	Color	Class	Packaging
530055	Ø10		RA	1
530055WHITE	Ø10		RA	1
530056	Ø12		RA	1
530056WHITE	Ø12		RA	1
530057	Ø14		RA	1
530057WHITE	Ø14		RA	1
530058	Ø16		RA	1 / 20
530058WHITE	Ø16		RA	1

RR 702 OPTIMA

Copper connection pipe OPTIMA series



Code	Size	Color	Class	Packaging
530032	Ø15 x 1/2" x 140 mm		RA	35 / 140
530032INOX	Ø15 x 1/2" x 140 mm		RA	35 / 140
530032WHITE	Ø15 x 1/2" x 140 mm		RA	35 / 140

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THERMOSTATIC HEADS

The **thermostatic 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);
28 min (T 5005);
< 40 min (others)
Control accuracy CA (T 5005 only): 0.2 K

+ 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
- Liquid expansion sensor

Thermostatic head

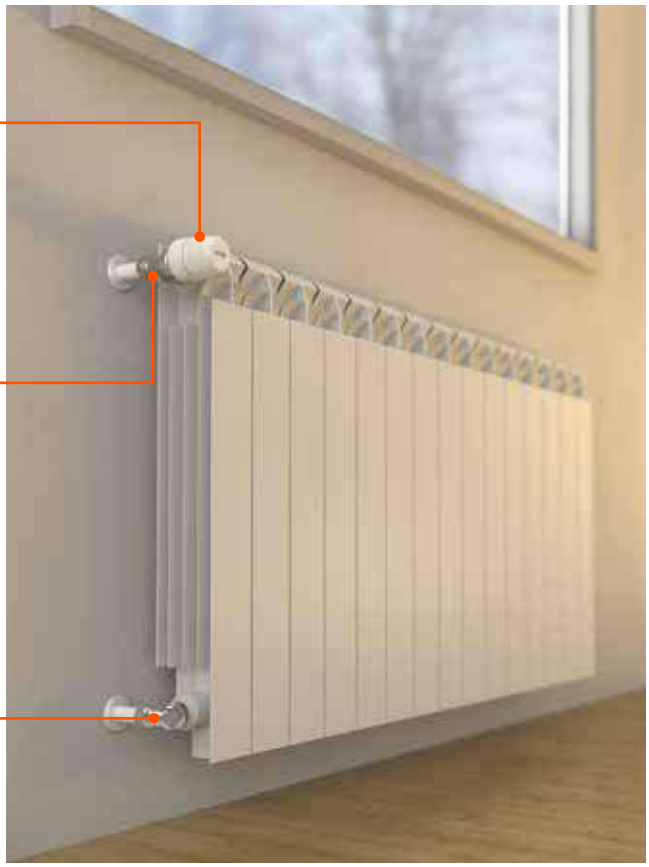




Thermostatic valve



Lockshield



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FOCUS: Temperature limitation and lock

Temperature limitation



FOCUS: Liquid expansion sensor

T 5000
Available with remote capillary sensor



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.



T 1500
Available with connection
M30 x 1,5
M28 x 1,5



All IVAR thermostatic heads are
available on request
with M28 × 1,5 connection

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T 5000



Thermostatic head with incorporated command and liquid expansion sensor. Hysteresis 0.5 K.
D = Differential pressure influence. W = Water temperature effect. Z = Response time.

028



Code	Size	D	W	Z	Range	Color	Class	Packaging
501172	M30 x 1,5	0.25 K	0.75 K	30 min	6,5-28 °C	☐	AA	10 / 80

T 5000 CHROME



Thermostatic head with incorporated command and liquid expansion sensor.
Z = Response time.

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

T 5005



Thermostatic head with incorporated command and liquid expansion sensor.
Hysteresis 0.4 K; control accuracy (CA) 0.2 K.
D = Differential pressure influence. W = Water temperature effect. Z = Response time.

028



Code	Size	D	W	Z	Range	Color	Class	Packaging
591142	M30 x 1,5	0.30 K	0.45 K	28 min	6,5-28 °C	☐	AA	10 / 80

T 1500



Thermostatic head with incorporated command and liquid expansion sensor.
Z = Response time.

Code	Size	Z	Range	Color	Class	Packaging
502843	M28 x 1,5	< 40 min	6,5-28 °C	☐	AA	16 / 128
502841	M30 x 1,5	< 40 min	6,5-28 °C	☐	AA	16 / 128

AT 0001



Anti-theft clamp for thermostatic heads T 5000 series and T 3000 series.

Code	Class	Packaging
500250	AE	75 / 600

AT 0001E



Anti-theft clamp for T 1000, T 1500 and AS 1010.

Code	Class	Packaging
500506	AE	30 / 240

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T 5010



Thermostatic head with incorporated command and remote wall sensor.
Z = Response time.

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

T 5020



Thermostatic head with remote command and sensor.
Z = Response time.

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

T 5030



Thermostatic head with remote sensor and concealed command.
Z = Response time.

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

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HARMONIA

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.

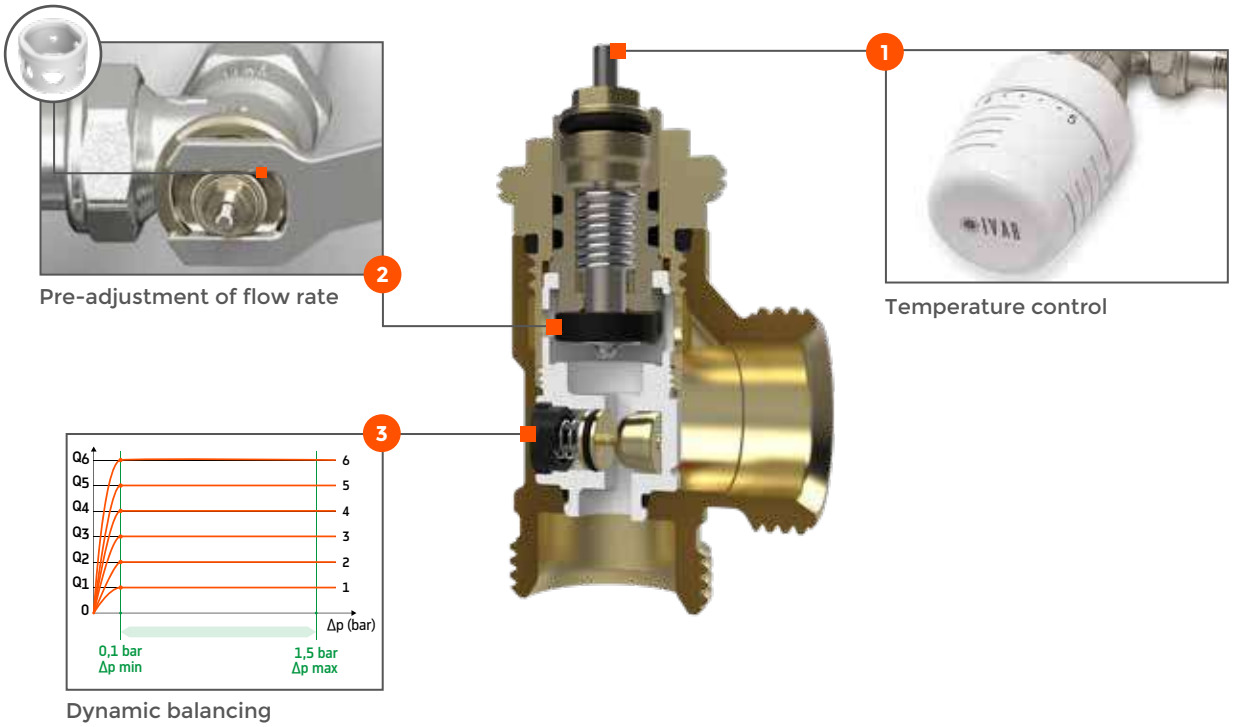
Combined with a thermostat head, they offer 3 functions:

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



Pre-adjustment of flow rate

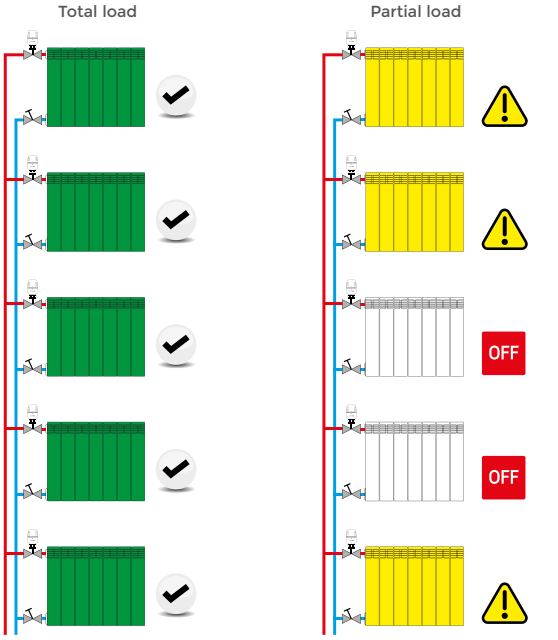
Temperature control

Dynamic balancing

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FOCUS: Static and dynamic balancing

Static balancing



Radiator not balanced; flow rate error.

Dynamic balancing



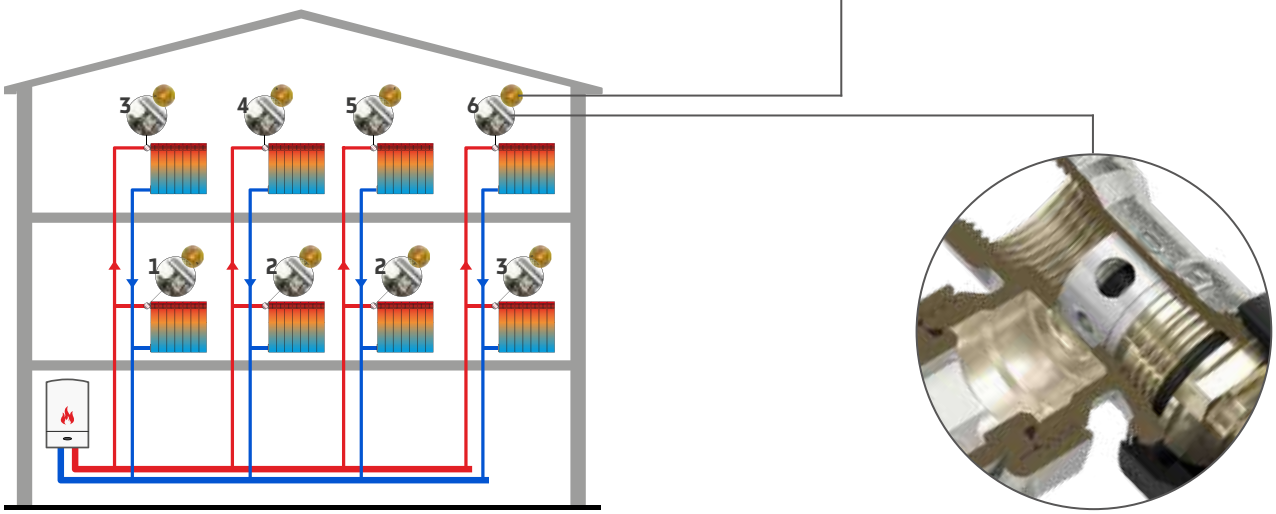
Radiator balanced correctly.

FOCUS: Preregulation

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

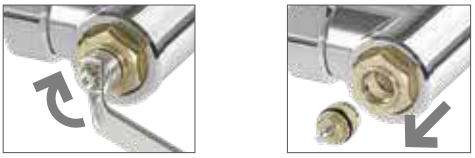


Selector setting on required value by means of a wrench.



FOCUS: Ring nut substitution

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



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THERMOSTATIC VALVES HARMONIA SERIES

VS 2106 NH



Angle thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.

Code	Size	Class	Packaging
501185R	EUROK x 3/8" M	BF	10 / 40
501185	EUROK x 1/2" M	BF	10 / 40
501185RCR	EUROK x 3/8" M O-ring	BF	10 / 40
501185RC	EUROK x 1/2" M O-ring	BF	10 / 40



DS 306 >>p. 47

VS 2102 NH



Angle thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.

Code	Size	Class	Packaging
501183	3/8" F x 3/8" M	BF	10 / 40
501184	1/2" F x 1/2" M	BF	10 / 40
501183RC	3/8" F x 3/8" M O-ring	BF	10 / 40
501184RC	1/2" F x 1/2" M O-ring	BF	10 / 40



DS 302 >>p. 47

VD 2105 NH



Straight thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.

Code	Size	Class	Packaging
501188R	EUROK x 3/8" M	BF	10 / 40
501188	EUROK x 1/2" M	BF	10 / 40
501188RCR	EUROK x 3/8" M O-ring	BF	10 / 40
501188RC	EUROK x 1/2" M O-ring	BF	10 / 40



DD 305 >>p. 47

VD 2101 NH



Straight thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.

Code	Size	Class	Packaging
501186	3/8" F x 3/8" M	BF	10 / 40
501187	1/2" F x 1/2" M	BF	10 / 40
501186RC	3/8" F x 3/8" M O-ring	BF	10 / 40
501187RC	1/2" F x 1/2" M O-ring	BF	10 / 40



DD 301 >>p. 47

VCR 2136 NH



Reverse thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.

Code	Size	Class	Packaging
501192R	EUROK x 3/8" M	BF	10 / 40
501192	EUROK x 1/2" M	BF	10 / 40
501192RCR	EUROK x 3/8" M O-ring	BF	10 / 40
501192RC	EUROK x 1/2" M O-ring	BF	10 / 40

VCR 2132 NH



Reverse thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.

Code	Size	Class	Packaging
501189	3/8" F x 3/8" M	BF	10 / 40
501190	1/2" F x 1/2" M	BF	10 / 40
501189RC	3/8" F x 3/8" M O-ring	BF	10 / 40
501190RC	1/2" F x 1/2" M O-ring	BF	10 / 40



Fitting for copper pipe >> p. 108

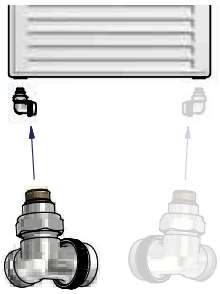


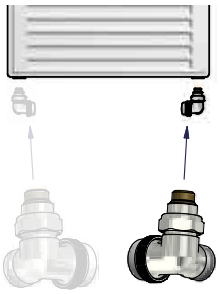
Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >> p. 108

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VCS 2166 NH SX



Co-axial left thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.

Code	Size	Class	Packaging
500509R	EUROK x 3/8" M	BF	10 / 40
500509	EUROK x 1/2" M	BF	10 / 40
500509RCR	EUROK x 3/8" M O-ring	BF	10 / 40
500509RC	EUROK x 1/2" M O-ring	BF	10 / 40



DCD 216 DX >>p. 46

VCD 2166 NH DX



Co-axial right thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, male connection and protection cap.

Code	Size	Class	Packaging
500512R	EUROK x 3/8" M	BF	10 / 40
500512	EUROK x 1/2" M	BF	10 / 40
500512RCR	EUROK x 3/8" M O-ring	BF	10 / 40
500512RC	EUROK x 1/2" M O-ring	BF	10 / 40



DCS 216 SX >>p. 46

VCS 2162 NH SX



Co-axial left thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.

Code	Size	Class	Packaging
500507	3/8" F x 3/8" M	BF	10 / 40
500508	1/2" F x 1/2" M	BF	10 / 40
500507RC	3/8" F x 3/8" M O-ring	BF	10 / 40
500508RC	1/2" F x 1/2" M O-ring	BF	10 / 40



DCD 212 DX >>p. 46

VCD 2162 NH DX



Co-axial right thermostatic valve HARMONIA-series with flow rate selector, pressure dynamic balancing, female connection and protection cap.

Code	Size	Class	Packaging
500510	3/8" F x 3/8" M	BF	10 / 40
500511	1/2" F x 1/2" M	BF	10 / 40
500510RC	3/8" F x 3/8" M O-ring	BF	10 / 40
500511RC	1/2" F x 1/2" M O-ring	BF	10 / 40



DCS 212 SX >>p. 46



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >> p. 108

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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.

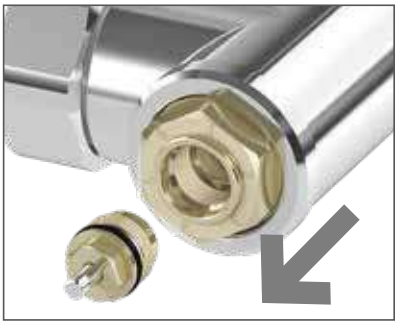
Lockshields
In addition to the inlet valve to the radiator, it is advisable to install a lockshield (see appropriate section) at the outlet with shut-off and regulation functions. IVAR lockshields are available also in the coaxial figures. The piping and radiator fittings are similar to those found on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





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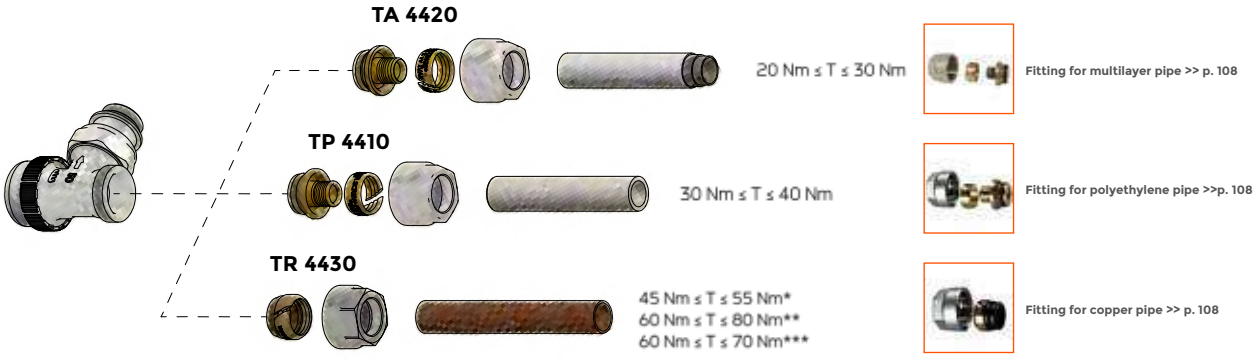
Versions example
STANDARD SERIES

 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.

Suitable fittings for valves and lockshields with EUROKONUS connection



T = Max. tightening torque. |*Soft copper. |**Semi-hard copper. |***Mild steel.

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VS 2106



028

Angle thermostatic valve with male connection and protection cap.

Code	Size	Class	Packaging
500805R	EUROK x 3/8" M	BA	10 / 80
500805	EUROK x 1/2" M	BA	10 / 80
500805RCR	EUROK x 3/8" M O-ring	BA	10 / 80
500805RC	EUROK x 1/2" M O-ring	BA	10 / 80



DS 306 >>p. 47

VS 2106 T



Angle thermostatic valve with male connection and manual head.

Code	Size	Class	Packaging
500805TR	EUROK x 3/8" M	BA	10 / 80
500805T	EUROK x 1/2" M	BA	10 / 80
500805TRCR	EUROK x 3/8" M O-ring	BA	10 / 80
500805TRC	EUROK x 1/2" M O-ring	BA	10 / 80



DS 306 >>p. 47

VD 2105



028

Straight thermostatic valve with male connection and protection cap.

Code	Size	Class	Packaging
500473R	EUROK x 3/8" M	BA	10 / 80
500473	EUROK x 1/2" M	BA	10 / 80
500473RCR	EUROK x 3/8" M O-ring	BA	10 / 80
500473RC	EUROK x 1/2" M O-ring	BA	10 / 80



DD 305 >>p. 47

VD 2105 T



Straight thermostatic valve with male connection and manual head.

Code	Size	Class	Packaging
500473TR	EUROK x 3/8" M	BA	10 / 80
500473T	EUROK x 1/2" M	BA	10 / 80
500473TRCR	EUROK x 3/8" M O-ring	BA	10 / 80
500473TRC	EUROK x 1/2" M O-ring	BA	10 / 80



DD 305 >>p. 47

VCR 2136



Reverse thermostatic valve with male connection and protection cap.

Code	Size	Class	Packaging
500558R	EUROK x 3/8" M	BA	10 / 80
500558	EUROK x 1/2" M	BA	10 / 80
500558RCR	EUROK x 3/8" M O-ring	BA	10 / 80
500558RC	EUROK x 1/2" M O-ring	BA	10 / 80

VCR 2136 T



Reverse thermostatic valve with male connection and manual head.

Code	Size	Class	Packaging
500558TR	EUROK x 3/8" M	BA	10 / 80
500558T	EUROK x 1/2" M	BA	10 / 80
500558TRCR	EUROK x 3/8" M O-ring	BA	10 / 80
500558TRC	EUROK x 1/2" M O-ring	BA	10 / 80



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >>p. 108

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VS 2102



028

Angle thermostatic valve with female connection and protection cap.

Code	Size	Class	Packaging
500500	3/8" F x 3/8" M	BA	10 / 80
500501	1/2" F x 1/2" M	BA	10 / 80
500309	3/4" F x 3/4" M	BA	8 / 64
500500RC	3/8" F x 3/8" M O-ring	BA	10 / 80
500501RC	1/2" F x 1/2" M O-ring	BA	10 / 80
500309RC	3/4" F x 3/4" M O-ring	BA	8 / 64



DS 302 >>p. 47

VS 2102 T



Angle thermostatic valve with female connection and manual head.

Code	Size	Class	Packaging
500500T	3/8" F x 3/8" M	BA	10 / 80
500501T	1/2" F x 1/2" M	BA	10 / 80
500309T	3/4" F x 3/4" M	BA	8 / 64
500500TRC	3/8" F x 3/8" M O-ring	BA	10 / 80
500501TRC	1/2" F x 1/2" M O-ring	BA	10 / 80
500309TRC	3/4" F x 3/4" M O-ring	BA	8 / 64



DS 302 >>p. 47

VD 2101



028

Straight thermostatic valve with female connection and protection cap.

Code	Size	Class	Packaging
500439	3/8" F x 3/8" M	BA	10 / 80
500440	1/2" F x 1/2" M	BA	10 / 80
500308	3/4" F x 3/4" M	BA	8 / 32
500439RC	3/8" F x 3/8" M O-ring	BA	10 / 80
500440RC	1/2" F x 1/2" M O-ring	BA	10 / 80
500308RC	3/4" F x 3/4" M O-ring	BA	8 / 32



DD 301 >>p. 47

VD 2101 T



Straight thermostatic valve with female connection and manual head.

Code	Size	Class	Packaging
500439T	3/8" F x 3/8" M	BA	10 / 80
500440T	1/2" F x 1/2" M	BA	10 / 80
500308T	3/4" F x 3/4" M	BA	8 / 32
500439TRC	3/8" F x 3/8" M O-ring	BA	10 / 80
500440TRC	1/2" F x 1/2" M O-ring	BA	10 / 80
500308TRC	3/4" F x 3/4" M O-ring	BA	8 / 32



DD 301 >>p. 47

VCR 2132



Reverse thermostatic valve with female connection and protection cap.

Code	Size	Class	Packaging
500399	1/2" F x 1/2" M	BA	10 / 80
500399RC	1/2" F x 1/2" M O-ring	BA	10 / 80

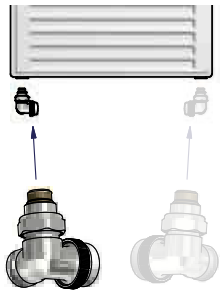
VCR 2132 T

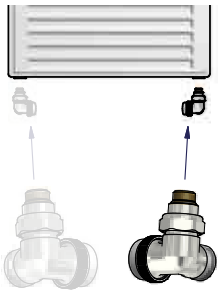


Reverse thermostatic valve with female connection and manual head.

Code	Size	Class	Packaging
500399T	1/2" F x 1/2" M	BA	10 / 80
500399TRC	1/2" F x 1/2" M O-ring	BA	10 / 80

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VCS 2166 SX

Co-axial left thermostatic valve with male connection and protection cap.



Code	Size	Class	Packaging
500518R	EUROK x 3/8" M	BA	10 / 80
500518	EUROK x 1/2" M	BA	10 / 80
500518RCR	EUROK x 3/8" M O-ring	BA	10 / 80
500518RC	EUROK x 1/2" M O-ring	BA	10 / 80



DCD 216 DX >>p. 46

VCD 2166 DX

Co-axial right thermostatic valve with male connection and protection cap.



Code	Size	Class	Packaging
500430R	EUROK x 3/8" M	BA	10 / 80
500430	EUROK x 1/2" M	BA	10 / 80
500430RCR	EUROK x 3/8" M O-ring	BA	10 / 80
500430RC	EUROK x 1/2" M O-ring	BA	10 / 80



DCS 216 SX >>p. 46

VCS 2166 SXT

Co-axial left thermostatic valve with male connection and manual head.



Code	Size	Class	Packaging
500518TR	EUROK x 3/8" M	BA	10 / 80
500518T	EUROK x 1/2" M	BA	10 / 80
500518TRCR	EUROK x 3/8" M O-ring	BA	10 / 80
500518TRC	EUROK x 1/2" M O-ring	BA	10 / 80



DCD 216 DX >>p. 46

VCD 2166 DXT

Co-axial right thermostatic valve with male connection and manual head.



Code	Size	Class	Packaging
500430TR	EUROK x 3/8" M	BA	10 / 80
500430T	EUROK x 1/2" M	BA	10 / 80
500430TRCR	EUROK x 3/8" M O-ring	BA	10 / 80
500430TRC	EUROK x 1/2" M O-ring	BA	10 / 80



DCS 216 SX >>p. 46



Fitting for copper pipe >> p. 108

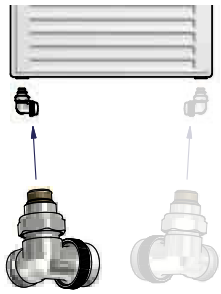


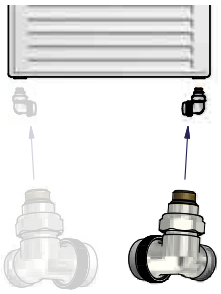
Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >> p. 108

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VCS 2162 SX

Co-axial left thermostatic valve with female connection and protection cap.



Code	Size	Class	Packaging
506077SX	3/8" F x 3/8" M	BA	10 / 80
500433	1/2" F x 1/2" M	BA	10 / 80
506077SXRC	3/8" F x 3/8" M O-ring	BA	10 / 80
500433RC	1/2" F x 1/2" M O-ring	BA	10 / 80



DCD 212 DX >>p. 46

VCD 2162 DX

Co-axial right thermostatic valve with female connection and protection cap.



Code	Size	Class	Packaging
506077DX	3/8" F x 3/8" M	BA	10 / 80
500829	1/2" F x 1/2" M	BA	10 / 80
506077DXRC	3/8" F x 3/8" M O-ring	BA	10 / 80
500829RC	1/2" F x 1/2" M O-ring	BA	10 / 80



DCS 212 SX >>p. 46

VCS 2162 SXT

Co-axial left thermostatic valve with female connection and manual head.



Code	Size	Class	Packaging
506077SXT	3/8" F x 3/8" M	BA	10 / 80
500433T	1/2" F x 1/2" M	BA	10 / 80
506077SXTRC	3/8" F x 3/8" M O-ring	BA	10 / 80
500433TRC	1/2" F x 1/2" M O-ring	BA	10 / 80



DCD 212 DX >>p. 46

VCD 2162 DXT

Co-axial right thermostatic valve with female connection and manual head.



Code	Size	Class	Packaging
506077DXT	3/8" F x 3/8" M	BA	10 / 80
500829T	1/2" F x 1/2" M	BA	10 / 80
506077DXTRC	3/8" F x 3/8" M O-ring	BA	10 / 80
500829TRC	1/2" F x 1/2" M O-ring	BA	10 / 80



DCS 212 SX >>p. 46

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VD 2127



Straight thermostatic valve with protection cap and male connections without fitting.

Code	Size	Class	Packaging
500890	EUROK x EUROK	BA	10 / 80

VD 2127 T



Straight thermostatic valve with manual head and male connections without fitting.

Code	Size	Class	Packaging
500890T	EUROK x EUROK	BA	10 / 80

VD 2115



Straight thermostatic valve with male connection, angle fitting and protection cap.

Code	Size	Class	Packaging
500496	EUROK x 1/2" M	BA	10 / 80

VD 2111



Straight thermostatic valve with female connection, angle fitting and protection cap.

Code	Size	Class	Packaging
500479	1/2" F x 1/2" M	BA	10 / 40



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >>p. 108

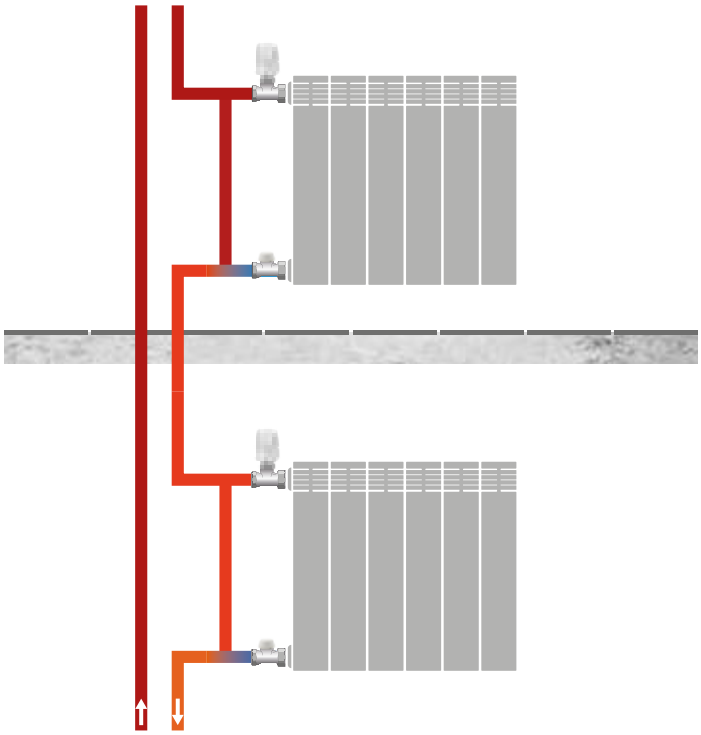
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IVAR offers a new range of thermostatic valves for high flow rates.

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

Angle thermostatic valve for high flow capacity with female connection and protection cap.



Code	Size	Class	Packaging
500503	1" F x 1" M	BA	5 / 40
500505	1"1/4 F x 1"1/4 M	BA	4 / 32
500503RC	1" F x 1" M O-ring	BA	5 / 40
500505RC	1"1/4 F x 1"1/4 M O-ring	BA	4 / 32

VD 2101 XL

Straight thermostatic valve for high flow capacity with female connection and protection cap.



Code	Size	Class	Packaging
500502	1" F x 1" M	BA	5 / 40
500504	1"1/4 F x 1"1/4 M	BA	4 / 32
500502RC	1" F x 1" M O-ring	BA	5 / 40
500504RC	1"1/4 F x 1"1/4 M O-ring	BA	4 / 32

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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.

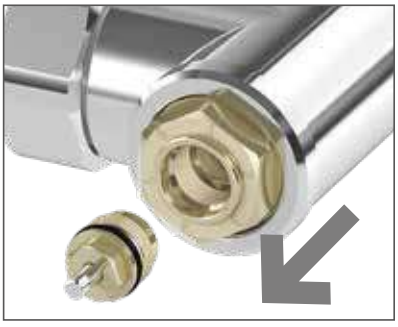
Lockshields
In addition to the inlet valve to the radiator, it is advisable to install a lockshield (see appropriate section) at the outlet with shut-off and regulation functions. IVAR lockshields are available also in the coaxial figures. The piping and radiator fittings are similar to those found on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





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Versions example
N SERIES

 500806	 -	 +T
 -	500806	500806T
 +R	500806R	500806TR
 +RC	500806RC	500806TRC
 +RCR	500806RCR	500806TRCR



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

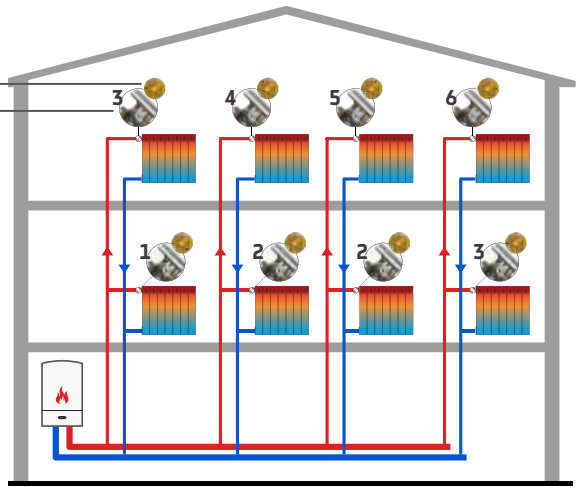
FOCUS: Preregulation

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 wrench.







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VS 2106 N



028

Angle thermostatic valve N-series with flow rate selector, male connection and protection cap.

Code	Size	Class	Packaging
500806R	EUROK x 3/8" M	BC	10 / 80
500806	EUROK x 1/2" M	BC	10 / 80
500806RCR	EUROK x 3/8" M O-ring	BC	10 / 80
500806RC	EUROK x 1/2" M O-ring	BC	10 / 80



DS 306 >>p. 47

VS 2106 NT



Angle thermostatic valve N-series with flow rate selector, male connection and manual head.

Code	Size	Class	Packaging
500806TR	EUROK x 3/8" M	BC	10 / 80
500806T	EUROK x 1/2" M	BC	10 / 80
500806TRCR	EUROK x 3/8" M O-ring	BC	10 / 80
500806TRC	EUROK x 1/2" M O-ring	BC	10 / 80



DS 306 >>p. 47

VD 2105 N



028

Straight thermostatic valve N-series with flow rate selector, male connection and protection cap.

Code	Size	Class	Packaging
500474R	EUROK x 3/8" M	BC	10 / 80
500474	EUROK x 1/2" M	BC	10 / 80
500474RCR	EUROK x 3/8" M O-ring	BC	10 / 80
500474RC	EUROK x 1/2" M O-ring	BC	10 / 80



DD 305 >>p. 47

VD 2105 NT



Straight thermostatic valve N-series with flow rate selector, male connection and manual head.

Code	Size	Class	Packaging
500474TR	EUROK x 3/8" M	BC	10 / 80
500474T	EUROK x 1/2" M	BC	10 / 80
500474TRCR	EUROK x 3/8" M O-ring	BC	10 / 80
500474TRC	EUROK x 1/2" M O-ring	BC	10 / 80



DD 305 >>p. 47

VCR 2136 N



Reverse thermostatic valve N-series with flow rate selector, male connection and protection cap.

Code	Size	Class	Packaging
500827R	EUROK x 3/8" M	BC	10 / 80
500827	EUROK x 1/2" M	BC	10 / 80
500827RCR	EUROK x 3/8" M O-ring	BC	10 / 80
500827RC	EUROK x 1/2" M O-ring	BC	10 / 80

VCR 2136 NT



Reverse thermostatic valve N-series with flow rate selector, male connection and manual head.

Code	Size	Class	Packaging
500827TR	EUROK x 3/8" M	BC	10 / 80
500827T	EUROK x 1/2" M	BC	10 / 80
500827TRCR	EUROK x 3/8" M O-ring	BC	10 / 80
500827TRC	EUROK x 1/2" M O-ring	BC	10 / 80



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >>p. 108

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VS 2102 N



028

Angle thermostatic valve N-series with flow rate selector, female connection and protection cap.

Code	Size	Class	Packaging
500870	3/8" F x 3/8" M	BC	10 / 80
500513	1/2" F x 1/2" M	BC	10 / 80
500384	3/4" F x 3/4" M	BC	8 / 64
500870RC	3/8" F x 3/8" M O-ring	BC	10 / 80
500513RC	1/2" F x 1/2" M O-ring	BC	10 / 80
500384RC	3/4" F x 3/4" M O-ring	BC	8 / 64



DS 302 >>p. 47

VS 2102 NT



Angle thermostatic valve N-series with flow rate selector, female connection and manual head.

Code	Size	Class	Packaging
500870T	3/8" F x 3/8" M	BC	10 / 80
500513T	1/2" F x 1/2" M	BC	10 / 80
500384T	3/4" F x 3/4" M	BC	8 / 64
500870TRC	3/8" F x 3/8" M O-ring	BC	10 / 80
500513TRC	1/2" F x 1/2" M O-ring	BC	10 / 80
500384TRC	3/4" F x 3/4" M O-ring	BC	8 / 64



DS 302 >>p. 47

VD 2101 N



028

Straight thermostatic valve N-series with flow rate selector, female connection and protection cap.

Code	Size	Class	Packaging
500888	3/8" F x 3/8" M	BC	10 / 80
500459	1/2" F x 1/2" M	BC	10 / 80
500382	3/4" F x 3/4" M	BC	8 / 64
500888RC	3/8" F x 3/8" M O-ring	BC	10 / 80
500459RC	1/2" F x 1/2" M O-ring	BC	10 / 80
500382RC	3/4" F x 3/4" M O-ring	BC	8 / 64



DD 301 >>p. 47

VD 2101 NT



Straight thermostatic valve N-series with flow rate selector, female connection and manual head.

Code	Size	Class	Packaging
500888T	3/8" F x 3/8" M	BC	10 / 80
500459T	1/2" F x 1/2" M	BC	10 / 80
500382T	3/4" F x 3/4" M	BC	8 / 64
500888TRC	3/8" F x 3/8" M O-ring	BC	10 / 80
500459TRC	1/2" F x 1/2" M O-ring	BC	10 / 80
500382TRC	3/4" F x 3/4" M O-ring	BC	8 / 64



DD 301 >>p. 47

VCR 2132 N



Reverse thermostatic valve N-series with flow rate selector, female connection and protection cap.

Code	Size	Class	Packaging
500810	1/2" F x 1/2" M	BC	10 / 80
500810RC	1/2" F x 1/2" M O-ring	BC	10 / 80

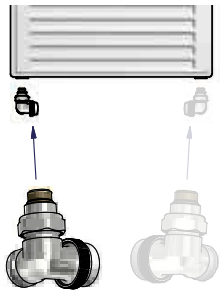
VCR 2132 NT

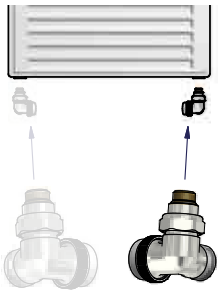


Reverse thermostatic valve N-series with flow rate selector, female connection and manual head.

Code	Size	Class	Packaging
500810T	1/2" F x 1/2" M	BC	10 / 80
500810TRC	1/2" F x 1/2" M O-ring	BC	10 / 80

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VCS 2166 N SX



Co-axial left thermostatic valve N-series with flow rate selector, male connection and protection cap.

Code	Size	Class	Packaging
500519R	EUROK x 3/8" M	BC	10 / 80
500519	EUROK x 1/2" M	BC	10 / 40
500519RCR	EUROK x 3/8" M O-ring	BC	10 / 80
500519RC	EUROK x 1/2" M O-ring	BC	10 / 80



DCD 216 DX >>p. 46

VCD 2166 N DX



Co-axial right thermostatic valve N-series with flow rate selector, male connection and protection cap.

Code	Size	Class	Packaging
500431R	EUROK x 3/8" M	BC	10 / 80
500431	EUROK x 1/2" M	BC	10 / 40
500431RCR	EUROK x 3/8" M O-ring	BC	10 / 80
500431RC	EUROK x 1/2" M O-ring	BC	10 / 80



DCS 216 SX >>p. 46

VCS 2166 N SXT



Co-axial left thermostatic valve N-series with flow rate selector, male connection and manual head.

Code	Size	Class	Packaging
500519TR	EUROK x 3/8" M	BC	10 / 80
500519T	EUROK x 1/2" M	BC	10 / 80
500519TRCR	EUROK x 3/8" M O-ring	BC	10 / 80
500519TRC	EUROK x 1/2" M O-ring	BC	10 / 80



DCD 216 DX >>p. 46

VCD 2166 N DXT



Co-axial right thermostatic valve N-series with flow rate selector, male connection and manual head.

Code	Size	Class	Packaging
500431TR	EUROK x 3/8" M	BC	10 / 80
500431T	EUROK x 1/2" M	BC	10 / 80
500431TRCR	EUROK x 3/8" M O-ring	BC	10 / 80
500431TRC	EUROK x 1/2" M O-ring	BC	10 / 80



DCS 216 SX >>p. 46



Fitting for copper pipe >> p. 108

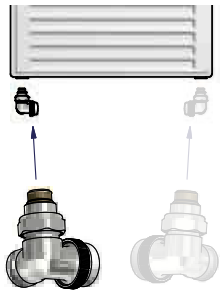


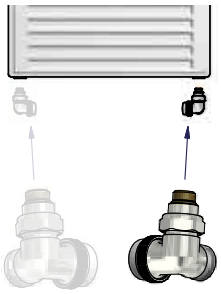
Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >> p. 108

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VCS 2162 N SX



Co-axial left thermostatic valve N-series with flow rate selector, female connection and protection cap.

Code	Size	Class	Packaging
506208SX	3/8" F x 3/8" M	BC	10 / 80
500547	1/2" F x 1/2" M	BC	10 / 40
506208SXRC	3/8" F x 3/8" M O-ring	BC	10 / 80
500547RC	1/2" F x 1/2" M O-ring	BC	10 / 80



DCD 212 DX >>p. 46

VCD 2162 N DX



Co-axial right thermostatic valve N-series with flow rate selector, female connection and protection cap.

Code	Size	Class	Packaging
506208DX	3/8" F x 3/8" M	BC	10 / 80
500546	1/2" F x 1/2" M	BC	10 / 80
506208DXRC	3/8" F x 3/8" M O-ring	BC	10 / 80
500546RC	1/2" F x 1/2" M O-ring	BC	10 / 80



DCS 212 SX >>p. 46

VCS 2162 N SXT



Co-axial left thermostatic valve N-series with flow rate selector, female connection and manual head.

Code	Size	Class	Packaging
506208SXT	3/8" F x 3/8" M	BC	10 / 80
500547T	1/2" F x 1/2" M	BC	10 / 80
506208SXTRC	3/8" F x 3/8" M O-ring	BC	10 / 80
500547TRC	1/2" F x 1/2" M O-ring	BC	10 / 80



DCD 212 DX >>p. 46

VCD 2162 N DXT



Co-axial right thermostatic valve N-series with flow rate selector, female connection and manual head.

Code	Size	Class	Packaging
506208DXT	3/8" F x 3/8" M	BC	10 / 80
500546T	1/2" F x 1/2" M	BC	10 / 80
506208DXTRC	3/8" F x 3/8" M O-ring	BC	10 / 80
500546TRC	1/2" F x 1/2" M O-ring	BC	10 / 80



DCS 212 SX >>p. 46

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VD 2127 N



Straight thermostatic valve N-series with flow rate selector, protection cap and male connections without fitting.

Code	Size	Class	Packaging
500891	EUROK x EUROK	BC	10 / 80

VD 2127 NT



Straight thermostatic valve N-series with flow rate selector, manual head and male connections without fitting.

Code	Size	Class	Packaging
500891T	EUROK x EUROK	BC	10 / 80

VD 2115 N



Straight thermostatic valve N-series with flow rate selector, male connection, angle fitting and protection cap.

Code	Size	Class	Packaging
500497	EUROK x 1/2" M	BC	10 / 80

VD 2111 N



Straight thermostatic valve N-series with flow rate selector, female connection, angle fitting and protection cap.

Code	Size	Class	Packaging
500480	1/2" F x 1/2" M	BC	10 / 80



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >>p. 108

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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).

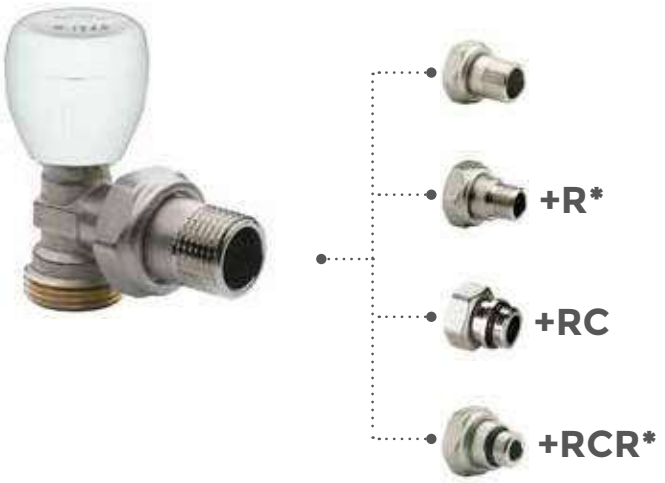
In addition to the inlet valve to the radiator, it is advisable to install a lockshield (see appropriate section) at the outlet with shut-off and regulation functions. The piping and radiator fittings are similar to those found on the valves.

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.

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MANUAL VALVES

VS 206

Angle manual valve with male connection.



Code	Size	Class	Packaging
501567R	EUROK x 3/8" M	CA	8 / 64
501567	EUROK x 1/2" M	CA	8 / 64
501567RCR	EUROK x 3/8" M O-ring	CA	8 / 64
501567RC	EUROK x 1/2" M O-ring	CA	8 / 64



DS 306 >>p. 47

VS 202

Angle manual valve with female connection.



Code	Size	Class	Packaging
501456	3/8" F x 3/8" M	CA	8 / 64
501457	1/2" F x 1/2" M	CA	8 / 64
501458	3/4" F x 3/4" M	CA	8 / 64
501456RC	3/8" F x 3/8" M O-ring	CA	8 / 64
501457RC	1/2" F x 1/2" M O-ring	CA	8 / 64
501458RC	3/4" F x 3/4" M O-ring	CA	8 / 64



DS 302 >>p. 47

VD 205

Straight manual valve with male connection.



Code	Size	Class	Packaging
501459R	EUROK x 3/8" M	CA	8 / 64
501459	EUROK x 1/2" M	CA	8 / 64
501459RCR	EUROK x 3/8" M O-ring	CA	8 / 64
501459RC	EUROK x 1/2" M O-ring	CA	8 / 64



DD 305 >>p. 47

VD 201

Straight manual valve with female connection.



Code	Size	Class	Packaging
501451	3/8" F x 3/8" M	CA	8 / 64
501452	1/2" F x 1/2" M	CA	8 / 64
501453	3/4" F x 3/4" M	CA	8 / 64
501451RC	3/8" F x 3/8" M O-ring	CA	8 / 64
501452RC	1/2" F x 1/2" M O-ring	CA	8 / 64
501453RC	3/4" F x 3/4" M O-ring	CA	8 / 64



DD 301 >>p. 47

VCR 236

Reverse manual valve with male connection.



Code	Size	Class	Packaging
501636	EUROK x 1/2" M	CA	8 / 64
501636RC	EUROK x 1/2" M O-ring	CA	8 / 64

VCR 232

Reverse manual valve with female connection.



Code	Size	Class	Packaging
501638	1/2" F x 1/2" M	CA	8 / 64
501638RC	1/2" F x 1/2" M O-ring	CA	8 / 64



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >>p. 108

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VS 006 DRM



Angle manual valve DRM-series with male connection.

Code	Size	Class	Packaging
500048R	EUROK x 3/8" M	CC	8 / 64
500048	EUROK x 1/2" M	CC	8 / 64
500048RCR	EUROK x 3/8" M O-ring	CC	8 / 64
500048RC	EUROK x 1/2" M O-ring	CC	8 / 64



DS 306 >>p. 47

VS 002 DRM



Angle manual valve DRM-series with female connection.

Code	Size	Class	Packaging
500565	3/8" F x 3/8" M	CC	8 / 64
500566	1/2" F x 1/2" M	CC	8 / 64
500567	3/4" F x 3/4" M	CC	8 / 64
500565RC	3/8" F x 3/8" M O-ring	CC	8 / 64
500566RC	1/2" F x 1/2" M O-ring	CC	8 / 64
500567RC	3/4" F x 3/4" M O-ring	CC	8 / 64



DS 302 >>p. 47

VD 005 DRM



Straight manual valve DRM-series with male connection.

Code	Size	Class	Packaging
500571R	EUROK x 3/8" M	CC	8 / 64
500571	EUROK x 1/2" M	CC	8 / 64
500571RCR	EUROK x 3/8" M O-ring	CC	8 / 64
500571RC	EUROK x 1/2" M O-ring	CC	8 / 64



DD 305 >>p. 47

VD 001 DRM

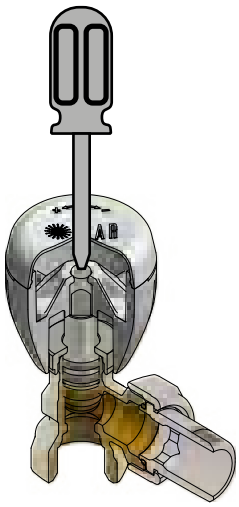


Straight manual valve DRM-series with female connection.

Code	Size	Class	Packaging
500561	3/8" F x 3/8" M	CC	8 / 64
500562	1/2" F x 1/2" M	CC	8 / 64
500563	3/4" F x 3/4" M	CC	8 / 64
500561RC	3/8" F x 3/8" M O-ring	CC	8 / 64
500562RC	1/2" F x 1/2" M O-ring	CC	8 / 64
500563RC	3/4" F x 3/4" M O-ring	CC	8 / 64



DD 301 >>p. 47



DRM series: double micrometric adjustment and position memory.



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >> p. 108

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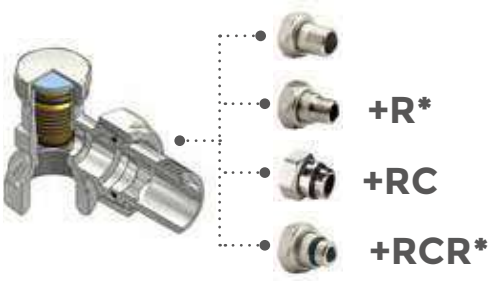
LOCKSHIELDS

Aside from the inlet valve to the radiator, a lockshield should be installed at the outlet with shut-off and regulation functions.

IVAR lockshields have the female or male pipe connection, while the radiator connection is the standard tapered seal, pipe union with O-ring or reduced 3/8" version (for EUROK valves).

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

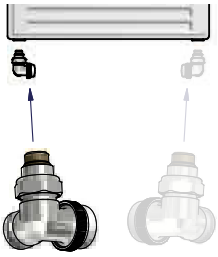
Technical characteristics
Max fluid temperature inside valve: 120°C
Maximum operating pressure: 10 bar

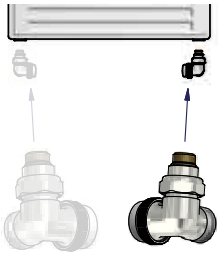


* Reduced fitting 3/8" M available only for valves with EUROK connection.

Versions example

				
-	-	+R	+RC	+RCR
500053	500053	500053R	500053RC	500053RCR





DCS 216 SX



Co-axial left lockshield heavy series with male connection.

Code	Size	Class	Packaging
520085R	EUROK x 3/8" M	DA	10 / 80
520085	EUROK x 1/2" M	DA	10 / 80
520085RCR	EUROK x 3/8" M O-ring	DA	10 / 80
520085RC	EUROK x 1/2" M O-ring	DA	10 / 80

DCD 216 DX



Co-axial right lockshield heavy series with male connection.

Code	Size	Class	Packaging
520084R	EUROK x 3/8" M	DA	10 / 80
520084	EUROK x 1/2" M	DA	10 / 80
520084RCR	EUROK x 3/8" M O-ring	DA	10 / 80
520084RC	EUROK x 1/2" M O-ring	DA	10 / 80

DCS 212 SX



Co-axial left lockshield heavy series with female connection.

Code	Size	Class	Packaging
520111	3/8" F x 3/8" M	DA	10 / 80
520081	1/2" F x 1/2" M	DA	10 / 80
520111RC	3/8" F x 3/8" M O-ring	DA	10 / 80
520081RC	1/2" F x 1/2" M O-ring	DA	10 / 80

DCD 212 DX



Co-axial right lockshield heavy series with female connection.

Code	Size	Class	Packaging
520110	3/8" F x 3/8" M	DA	10 / 80
520080	1/2" F x 1/2" M	DA	10 / 80
520110RC	3/8" F x 3/8" M O-ring	DA	10 / 80
520080RC	1/2" F x 1/2" M O-ring	DA	10 / 80


Fitting for copper pipe >> p. 108


Fitting for multilayer pipe >> p. 108


Fitting for polyethylene pipe >>p. 108

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DS 306



Angle lockshield with male connection.

Code	Size	Class	Packaging
500053R	EUROK x 3/8" M	DA	10 / 80
500053	EUROK x 1/2" M	DA	10 / 80
500053RCR	EUROK x 3/8" M O-ring	DA	10 / 80
500053RC	EUROK x 1/2" M O-ring	DA	10 / 80

DD 305



Straight lockshield with male connection.

Code	Size	Class	Packaging
500751R	EUROK x 3/8" M	DA	10 / 80
500751	EUROK x 1/2" M	DA	10 / 80
500751RCR	EUROK x 3/8" M O-ring	DA	10 / 80
500751RC	EUROK x 1/2" M O-ring	DA	10 / 80

DS 302



Angle lockshield with female connection.

Code	Size	Class	Packaging
500656	3/8" F x 3/8" M	DA	10 / 80
500652	1/2" F x 1/2" M	DA	10 / 80
500655	3/4" F x 3/4" M	DA	10 / 80
500656RC	3/8" F x 3/8" M O-ring	DA	10 / 80
500652RC	1/2" F x 1/2" M O-ring	DA	10 / 80
500655RC	3/4" F x 3/4" M O-ring	DA	10 / 80

DD 301



Straight lockshield with female connection.

Code	Size	Class	Packaging
500647	3/8" F x 3/8" M	DA	10 / 80
500642	1/2" F x 1/2" M	DA	10 / 80
500644	3/4" F x 3/4" M	DA	10 / 80
500647RC	3/8" F x 3/8" M O-ring	DA	10 / 80
500642RC	1/2" F x 1/2" M O-ring	DA	10 / 80
500644RC	3/4" F x 3/4" M O-ring	DA	10 / 80

DS 312



Angle lockshield with welding connection.

Code	Size	Class	Packaging
500784	Ø15 x 1/2" M	DA	10 / 80

DD 311



Straight lockshield with welding connection.

Code	Size	Class	Packaging
500623	Ø15 x 1/2" M	DA	10 / 80

DS 330



Angle lockshield with welder chrome-plated copper pipe.

Code	Size	Class	Packaging
500557	Ø 15 x Ø 15	DA	2 / 70

DD 327



Straight lockshield with male connections without fitting.

Code	Size	Class	Packaging
500750	EUROK x EUROK	DA	10 / 80



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >>p. 108

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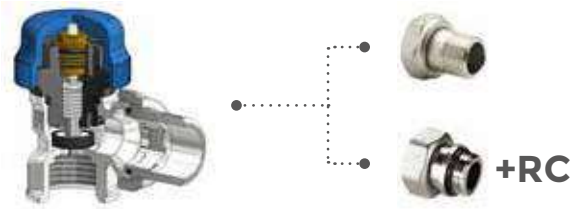
BASIC SERIES VALVES

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 3/8" or 1/2" male and 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

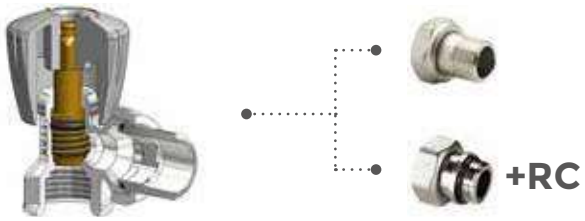
Technical characteristics
Max fluid temperature inside valve: 100°C
Maximum operating pressure: 10 bar
Max valve differential pressure with thermostatic head installed: 0.25 bar
Response time Z: < 40 min

Thermostatic valves - versions example



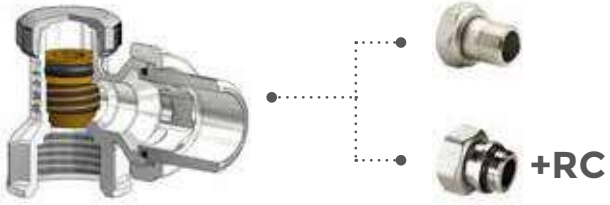
	-	+RC
510220	510220	510220**RC**

Manual valves - versions example



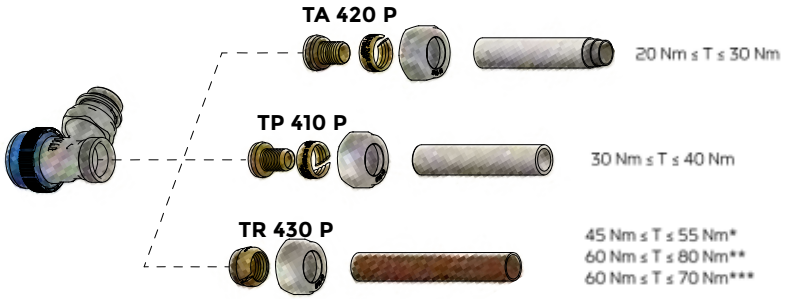
	-	+RC
510221	510221	510221**RC**

Lockshield valves - versions example



	-	+RC
510222	510222	510222**RC**

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









T = Max. tightening torque. |*Soft copper. |**Semi-hard copper. |***Mild steel.

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VS 1104



Angle thermostatic valve BASIC series with male connection and protection cap.

Code	Size	Class	Packaging
510226	1/2" M x 3/8" M	BA	10 / 80
510220	1/2" M x 1/2" M	BA	10 / 80
510220RC	1/2" M x 1/2" M O-ring	BA	10 / 80



T 1500 >>p. 22

VS 1102



Angle thermostatic valve BASIC series with female connection and protection cap.

Code	Size	Class	Packaging
510212	1/2" F x 1/2" M	BA	10 / 80
510212RC	1/2" F x 1/2" M O-ring	BA	10 / 80



T 1500 >>p. 22

VS 104



Angle manual valve BASIC series with male connection.

Code	Size	Class	Packaging
510227	1/2" M x 3/8" M	CA	10 / 80
510221	1/2" M x 1/2" M	CA	10 / 80
510221RC	1/2" M x 1/2" M O-ring	CA	10 / 80

VS 102



Angle manual valve BASIC series with female connection.

Code	Size	Class	Packaging
510215	1/2" F x 1/2" M	CA	10 / 80
510215RC	1/2" F x 1/2" M O-ring	CA	10 / 80

DS 404



Angle lockshield BASIC series with male connection.

Code	Size	Class	Packaging
510228	1/2" M x 3/8" M	DA	10 / 80
510222	1/2" M x 1/2" M	DA	10 / 80
510222RC	1/2" M x 1/2" M O-ring	DA	10 / 80

DS 402



Angle lockshield BASIC series with female connection.

Code	Size	Class	Packaging
510218	1/2" F x 1/2" M	DA	10 / 80
510218RC	1/2" F x 1/2" M O-ring	DA	10 / 80



Fitting for copper pipe >> p. 109



Fitting for multilayer pipe >> p. 109



Fitting for polyethylene pipe >>p. 109

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RADIATOR KITS

STANDARD SERIES

KS 306 B

Angle kit standard with male connection.



Code	Actuator	Size	Class	Packaging
520188SB	T 1500	EUROK x 3/8" M	BN	1 / 32
520181SB	T 1500	EUROK x 1/2" M	BN	1 / 32
520188SBRC	T 1500	EUROK x 3/8" M O-ring	BN	1 / 32
520181SBRC	T 1500	EUROK x 1/2" M O-ring	BN	1 / 32

KS 306 L

Angle kit standard with male connection.



Code	Actuator	Size	Class	Packaging
520188SL	T 5000	EUROK x 3/8" M	BN	1 / 32
520181SL	T 5000	EUROK x 1/2" M	BN	1 / 32
520188SLRC	T 5000	EUROK x 3/8" M O-ring	BN	1 / 32
520181SLRC	T 5000	EUROK x 1/2" M O-ring	BN	1 / 32

KD 305 B

Straight kit standard with male connection.



Code	Actuator	Size	Class	Packaging
520189SB	T 1500	EUROK x 3/8" M	BN	1 / 32
520180SB	T 1500	EUROK x 1/2" M	BN	1 / 32
520189SBRC	T 1500	EUROK x 3/8" M O-ring	BN	1 / 32
520180SBRC	T 1500	EUROK x 1/2" M O-ring	BN	1 / 32

KD 305 L

Straight kit standard with male connection.



Code	Actuator	Size	Class	Packaging
520189SL	T 5000	EUROK x 3/8" M	BN	1 / 32
520180SL	T 5000	EUROK x 1/2" M	BN	1 / 32
520189SLRC	T 5000	EUROK x 3/8" M O-ring	BN	1 / 32
520180SLRC	T 5000	EUROK x 1/2" M O-ring	BN	1 / 32

KS 302 B

Angle kit standard with female connection



Code	Actuator	Size	Class	Packaging
520177SB	T 1500	3/8" F x 3/8" M	BN	1 / 32
520178SB	T 1500	1/2" F x 1/2" M	BN	1 / 32
520179SB	T 1500	3/4" F x 3/4" M	BN	1 / 32
520177SBRC	T 1500	3/8" F x 3/8" M O-ring	BN	1 / 32
520178SBRC	T 1500	1/2" F x 1/2" M O-ring	BN	1 / 32
520179SBRC	T 1500	3/4" F x 3/4" M O-ring	BN	1 / 32

KS 302 L

Angle kit standard with female connection



Code	Actuator	Size	Class	Packaging
520177SL	T 5000	3/8" F x 3/8" M	BN	1 / 32
520178SL	T 5000	1/2" F x 1/2" M	BN	1 / 32
520179SL	T 5000	3/4" F x 3/4" M	BN	1 / 15
520177SLRC	T 5000	3/8" F x 3/8" M O-ring	BN	1 / 32
520178SLRC	T 5000	1/2" F x 1/2" M O-ring	BN	1 / 32
520179SLRC	T 5000	3/4" F x 3/4" M O-ring	BN	1 / 15

KD 301 B

Straight kit standard with female connection.



Code	Actuator	Size	Class	Packaging
520174SB	T 1500	3/8" F x 3/8" M	BN	1 / 32
520175SB	T 1500	1/2" F x 1/2" M	BN	1 / 32
520176SB	T 1500	3/4" F x 3/4" M	BN	1 / 32
520174SBRC	T 1500	3/8" F x 3/8" M O-ring	BN	1 / 32
520175SBRC	T 1500	1/2" F x 1/2" M O-ring	BN	1 / 32
520176SBRC	T 1500	3/4" F x 3/4" M O-ring	BN	1 / 32

KD 301 L

Straight kit standard with female connection.



Code	Actuator	Size	Class	Packaging
520174SL	T 5000	3/8" F x 3/8" M	BN	1 / 32
520175SL	T 5000	1/2" F x 1/2" M	BN	1 / 32
520176SL	T 5000	3/4" F x 3/4" M	BN	1 / 15
520174SLRC	T 5000	3/8" F x 3/8" M O-ring	BN	1 / 32
520175SLRC	T 5000	1/2" F x 1/2" M O-ring	BN	1 / 32
520176SLRC	T 5000	3/4" F x 3/4" M O-ring	BN	1 / 15

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N SERIES (with flow rate selector)



KS 306 BN

Angle kit N-series with male connection.



Code	Actuator	Size	Class	Packaging
520188VB	T 1500	EUROK x 3/8" M	BN	1 / 32
520181VB	T 1500	EUROK x 1/2" M	BN	1 / 32
520188VBRC	T 1500	EUROK x 3/8" M O-ring	BN	1 / 32
520181VBRC	T 1500	EUROK x 1/2" M O-ring	BN	1 / 32

KS 306 LN

Angle kit N-series with male connection.



Code	Actuator	Size	Class	Packaging
520188VL	T 5000	EUROK x 3/8" M	BN	1 / 32
520181VL	T 5000	EUROK x 1/2" M	BN	1 / 32
520188VLRC	T 5000	EUROK x 3/8" M O-ring	BN	1 / 32
520181VLRC	T 5000	EUROK x 1/2" M O-ring	BN	1 / 32

KD 305 BN

Straight kit N-series with male connection.



Code	Actuator	Size	Class	Packaging
520189VB	T 1500	EUROK x 3/8" M	BN	1 / 32
520180VB	T 1500	EUROK x 1/2" M	BN	1 / 32
520189VBRC	T 1500	EUROK x 3/8" M O-ring	BN	1 / 32
520180VBRC	T 1500	EUROK x 1/2" M O-ring	BN	1 / 32

KD 305 LN

Straight kit N-series with male connection.



Code	Actuator	Size	Class	Packaging
520189VL	T 5000	EUROK x 3/8" M	BN	1 / 32
520180VL	T 5000	EUROK x 1/2" M	BN	1 / 32
520189VLRC	T 5000	EUROK x 3/8" M O-ring	BN	1 / 32
520180VLRC	T 5000	EUROK x 1/2" M O-ring	BN	1 / 32

KS 302 BN

Angle kit N-series with female connection.



Code	Actuator	Size	Class	Packaging
520177VB	T 1500	3/8" F x 3/8" M	BN	1 / 32
520178VB	T 1500	1/2" F x 1/2" M	BN	1 / 32
520179VB	T 1500	3/4" F x 3/4" M	BN	1 / 32
520177VBRC	T 1500	3/8" F x 3/8" M O-ring	BN	1 / 32
520178VBRC	T 1500	1/2" F x 1/2" M O-ring	BN	1 / 32
520179VBRC	T 1500	3/4" F x 3/4" M O-ring	BN	1 / 32

KS 302 LN

Angle kit N-series with female connection.



Code	Actuator	Size	Class	Packaging
520177VL	T 5000	3/8" F x 3/8" M	BN	1 / 32
520178VL	T 5000	1/2" F x 1/2" M	BN	1 / 32
520179VL	T 5000	3/4" F x 3/4" M	BN	1 / 15
520177VLRC	T 5000	3/8" F x 3/8" M O-ring	BN	1 / 32
520178VLRC	T 5000	1/2" F x 1/2" M O-ring	BN	1 / 32
520179VLRC	T 5000	3/4" F x 3/4" M O-ring	BN	1 / 15

KD 301 BN

Straight kit N-series with female connection.



Code	Actuator	Size	Class	Packaging
520174VB	T 1500	3/8" F x 3/8" M	BN	1 / 32
520175VB	T 1500	1/2" F x 1/2" M	BN	1 / 32
520176VB	T 1500	3/4" F x 3/4" M	BN	1 / 32
520174VBRC	T 1500	3/8" F x 3/8" M O-ring	BN	1 / 32
520175VBRC	T 1500	1/2" F x 1/2" M O-ring	BN	1 / 32
520176VBRC	T 1500	3/4" F x 3/4" M O-ring	BN	1 / 32

KD 301 LN

Straight kit N-series with female connection.



Code	Actuator	Size	Class	Packaging
520174VL	T 5000	3/8" F x 3/8" M	BN	1 / 32
520175VL	T 5000	1/2" F x 1/2" M	BN	1 / 32
520176VL	T 5000	3/4" F x 3/4" M	BN	1 / 15
520174VLRC	T 5000	3/8" F x 3/8" M O-ring	BN	1 / 32
520175VLRC	T 5000	1/2" F x 1/2" M O-ring	BN	1 / 32
520176VLRC	T 5000	3/4" F x 3/4" M O-ring	BN	1 / 15

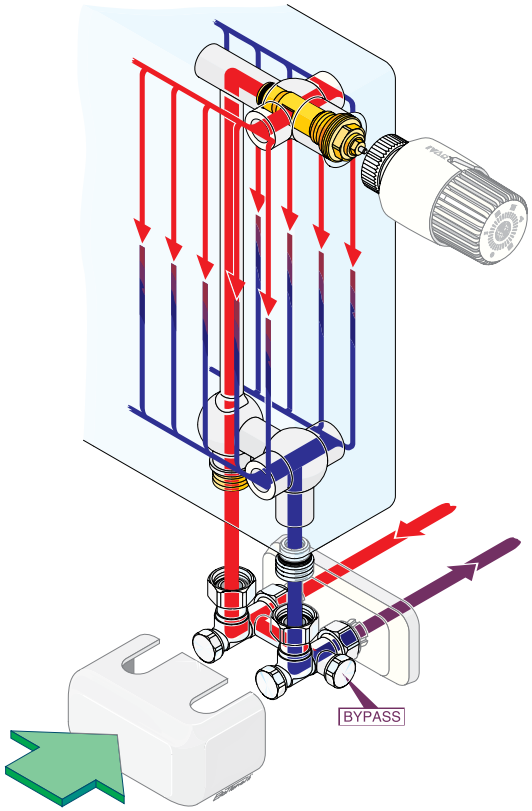
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H VALVES

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



H valve with male connection for double pipe systems with wall pipes.

Code	Size	Class	Packaging
500848	EUROK x 3/4" EUROK swivel	EA	6 / 48

DS 356



H valve with male connection for single/double pipe systems (with adjustable bypass 50-100%) with wall pipes.

Code	Size	Class	Packaging
500323	EUROK x 3/4" EUROK swivel	EA	6 / 48

DD 345



H valve with male connection for double pipe systems with floor pipes.

Code	Size	Class	Packaging
500845	EUROK x 3/4" EUROK swivel	EA	6 / 48

DD 355



H valve with male connection for single/double pipe systems (with adjustable bypass 50-100%) with floor pipes.

Code	Size	Class	Packaging
500317	EUROK x 3/4" EUROK swivel	EA	6 / 48

AVK 01



Adapter for OPTIMA series, VK series lockshields and H valves.

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

AVK 02



Universal cover for H valves.

Code	Color	Class	Packaging
501217		EC	120

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DS 346 B



H valve with male connection for double pipe systems with wall pipes (AVK 01 adapters included).

Code	Size	Class	Packaging
500848B	EUROK x 1/2" M O-ring	EA	6 / 48

DS 356 B



H valve with male connection for single/double pipe systems (with adjustable bypass 50-100%) with wall pipes (AVK 01 adapters included).

Code	Size	Class	Packaging
500323B	EUROK x 1/2" M O-ring	EA	6 / 48

DD 345 B



H valve with male connection for double pipe systems with floor pipes (AVK 01 adapters included).

Code	Size	Class	Packaging
500845B	EUROK x 1/2" M O-ring	EA	6 / 48

DD 355 B



H valve with male connection for single/double pipe systems (with adjustable bypass 50-100%) with floor pipes (AVK 01 adapters included).

Code	Size	Class	Packaging
500317B	EUROK x 1/2" M O-ring	EA	6 / 48

VIT 51



Thermostatic headwork with flow rate selector for valve incorporated in the heating element H-type.

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

VIT 52



Thermostatic headwork with flow rate selector for valve incorporated in the heating element D-type.

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

VS 2146



H thermostatic valve N-series with male connection for double pipe systems with wall pipes.

Code	Size	Class	Packaging
500831	EUROK x 1/2" M O-ring	BC	5 / 40

VS 2156



H thermostatic valve N-series with male connection for double pipe systems with wall pipes.

Code	Size	Class	Packaging
501826	EUROK x 1/2" M O-ring (AVK 01)	BC	5 / 40

VD 2145



H thermostatic valve N-series with male connection for double pipe systems with floor pipes.

Code	Size	Class	Packaging
500823	EUROK x 1/2" M O-ring	BC	6 / 48

VD 2155



H thermostatic valve N-series with male connection for double pipe systems with floor pipes.

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



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >>p. 108

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4-WAY DISTRIBUTORS

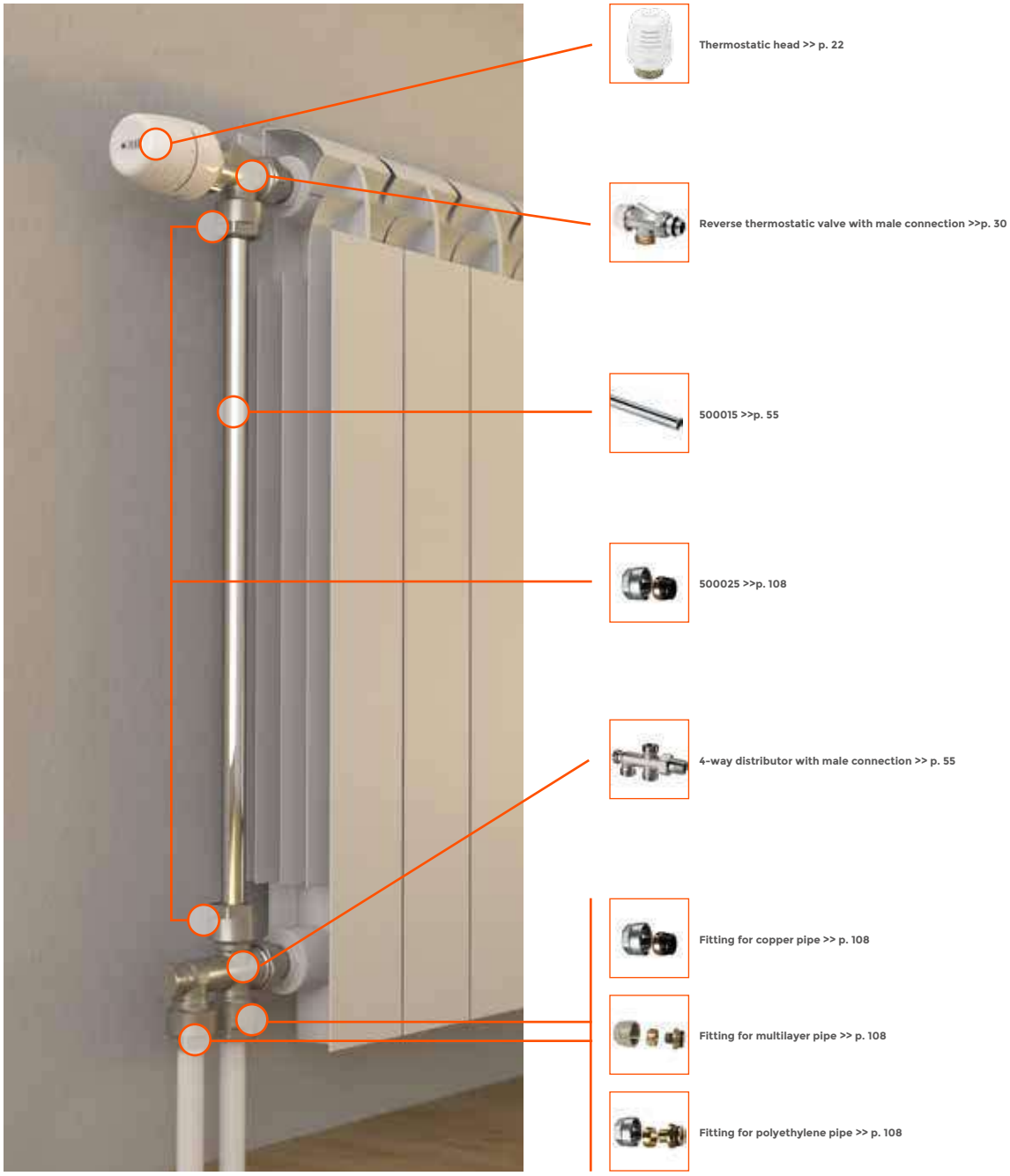
Distributors are four-way valves for the distribution of heat transfer fluid in single pipe (DM) or double pipe (DB) systems. DMB valves are equipped with adjustable bypass so that they can be installed on both types of systems.

In all the models, after the top valve closes, the valve plug isolates the radiator and balances the circuit, if necessary. Available for systems with floor or wall junctions.

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

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

INSTALLATION LAYOUT



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DB 1405



4-way distributor with male connection for double pipe systems (flow rate 100%) with floor pipes.

Code	Size	Class	Packaging
500381	EUROK x 1/2" M	FA	10 / 80

KDB 1405



Radiator kit complete with:
- VCR 2136 (code 500558) 1 pc. >> reverse thermostatic valve with male connection EUROK x 1/2" M;
- T 5000 (code 501172) 1 pc. >> thermostatic head with incorporated command and liquid expansion sensor;
- DB 1405 (code 500381) 1 pc. >> 4-way distributor with male connection EUROK x 1/2" M for double pipe systems (flow rate 100%) with floor pipes;
- TA 4420 (code 500684) 2 pcs. >> EUROK x 16/2 fitting for multilayer and polyethylene pipe;
- TR 4430 (code 500025) 2 pcs. >> EUROK x 15/1 fitting for copper and mild steel pipe.

Code	Actuator	Size	Class	Packaging
520205	T 5000	EUROK x 1/2" M	BN	1 / 8

DM 1415



4-way distributor with male connection for single pipe systems (flow rate 60%) with floor pipes.

Code	Size	Class	Packaging
500393	EUROK x 1/2" M	FA	10 / 80

KDM 1415



Radiator kit complete with:
- VCR 2136 (code 500558) 1 pc. >> reverse thermostatic valve with male connection EUROK x 1/2" M;
- T 5000 (code 501172) 1 pc. >> thermostatic head with incorporated command and liquid expansion sensor;
- DM 1415 (code 500393) 1 pc. >> 4-way distributor with male connection EUROK x 1/2" M for single pipe systems (flow rate 60%) with floor pipes;
- TA 4420 (code 500684) 2 pcs. >> EUROK x 16/2 fitting for multilayer and polyethylene pipe;
- TR 4430 (code 500025) 2 pcs. >> EUROK x 15/1 fitting for copper and mild steel pipe.

Code	Actuator	Size	Class	Packaging
520206	T 5000	EUROK x 1/2" M	BN	1 / 8

DB 1406



4-way distributor with male connection for double pipe systems (flow rate 100%) with wall pipes.

Code	Size	Class	Packaging
500395	EUROK x 1/2" M	FA	8 / 64

KDB 1406



Radiator kit complete with:
- VCR 2136 (code 500558) 1 pc. >> reverse thermostatic valve with male connection EUROK x 1/2" M;
- T 5000 (code 501172) 1 pc. >> thermostatic head with incorporated command and liquid expansion sensor;
- DB 1406 (code 500395) 1 pc. >> 4-way distributor with male connection EUROK x 1/2" M for double pipe systems (flow rate 100%) with wall pipes;
- TA 4420 (code 500684) 2 pcs. >> EUROK x 16/2 fitting for multilayer and polyethylene pipe;
- TR 4430 (code 500025) 2 pcs. >> EUROK x 15/1 fitting for copper and mild steel pipe.

Code	Actuator	Size	Class	Packaging
520204	T 5000	EUROK x 1/2" M	BN	1 / 8

DM 1416



4-way distributor with male connection for single pipe systems (flow rate 60%) with wall pipes.

Code	Size	Class	Packaging
500394	EUROK x 1/2" M	FA	8 / 64

ADI 01



Chrome-plated mild steel pipe.

Code	Size	Length	Color	Class	Packaging
550015	Ø 15	1 m		HA	80

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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 Fig. 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 Δ = 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

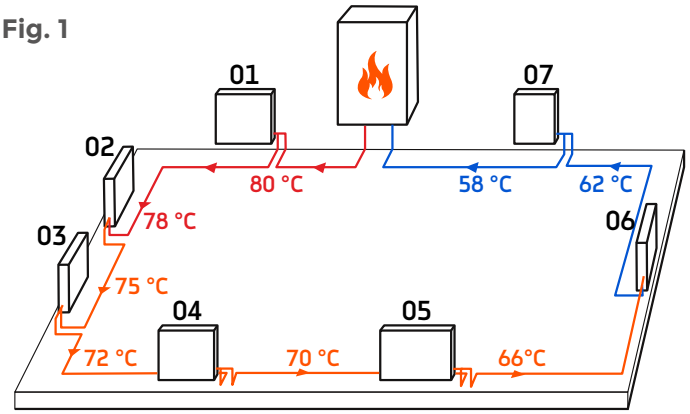
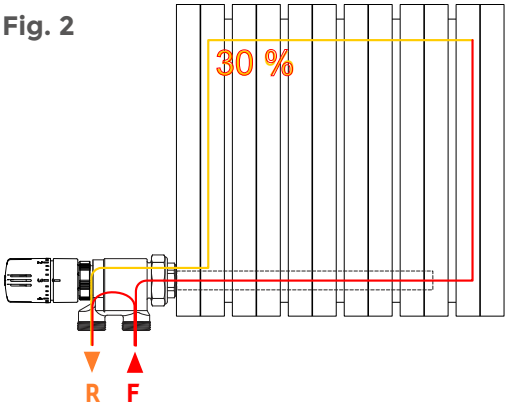


Fig. 2



VM 1303 R



Single-pipe thermostatic valve with male connection.

Code	Size	Class	Packaging
520172	1/2" x EUROK	GA	5 / 40
520173	3/4" x EUROK	GA	5 / 40


Fitting for copper pipe >> p. 108


Fitting for multilayer pipe >> p. 108


Fitting for polyethylene pipe >>p. 108

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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:

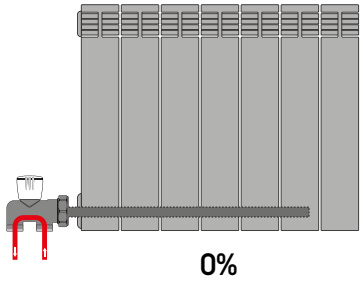
- in the open position, all the ring flow passes through the radiator;
- in the closed position, the heating body is completely isolated and all the fluid is bypassed on return.

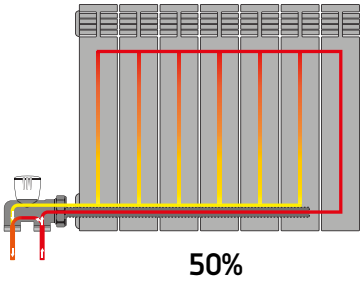
Flow input and output can be inverted with items VM 1405 and VM 1415.

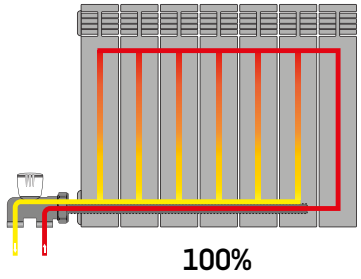
Items VM 1505 and VM 1515 with external vertical feed allow the flow input to be changed using the appropriate probes contained in the kit.

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



Single-pipe angle manual valve with male connections.

Code	Size	Class	Packaging
501613	1/2" x EUROK - Flow rate 100%	GC	5 / 40
501614	3/4" x EUROK - Flow rate 100%	GC	5 / 40
5016135	1/2" x EUROK - Flow rate 50%	GC	5 / 40
5016145	3/4" x EUROK - Flow rate 50%	GC	5 / 40

VM 1415



Single-pipe straight manual valve with male connections.

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


Fitting for copper pipe >> p. 108


Fitting for multilayer pipe >> p. 108


Fitting for polyethylene pipe >>p. 108

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ACCESSORIES FOR SINGLE-PIPE VALVES

AVM 1324

Counterprobe for single-pipe thermostatic valves.



Code	Class	Packaging
500161	GE	200

AVM 1327

Counterprobe for single-pipe manual valves.



Code	Class	Packaging
501622	GE	50 / 400

AVM 1321

Internal probe for thermostatic and manual single-pipe valves.



Code	Size	Class	Packaging
501301	1/2"	GE	50 / 400
501302	3/4"	GE	50 / 400

AVM 1325

Extension for probe for thermostatic and manual single-pipe valves (external installation for 1/2" valves; internal installation for 3/4" valves).



Code	Size	Class	Packaging
500584	350 mm - External Ø 14 mm – (Internal Ø installation, for 3/4" valves)	GE	1
500585	350 mm - Ø14,7 mm	GE	1

AVM 1326

Fitting for thermostatic and manual single-pipe valves.



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

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ACCESSORIES AND SPARE PARTS

AGE 19

Extension for valves connection.



Code	Size	Class	Packaging
501046	Eurokonus	HA	50 / 200

AGE 17

Thermostatic heads / DANFOSS valves adapter.



Code	Class	Packaging
560001	AE	40 / 320

AGE 14

Extension for valves connection.



Code	Size	Class	Packaging
501424	3/4" F TP x EUROK - 13,5 mm	HA	40 / 320
501964	3/4" F TP x EUROK - 18,5 mm	HA	40 / 320
501965	3/4" F TP x EUROK - 23,5 mm	HA	40 / 320

AC 625 M

Manual air vent valve.



Code	Size	Class	Packaging
500954M	1/4"	HA	100 / 400
500675M	3/8"	HA	100 / 400
500674M	1/2"	HA	100 / 400

AGE 06

ABS double plate (in 2 pieces) .



Code	Size	OC distance	Color	Class	Packaging
501308	Ø15	38 mm	☐	HA	400
500109	Ø15	50 mm	☐	HA	500

AC 651

Automatic air valve for radiators.



Code	Size	Class	Packaging
506251DX	1" - RIGHT	HA	20 / 160
506251SX	1" - LEFT	HA	20 / 160

AGE 07

ABS single plastic plate (in 2 pieces).



Code	Size	Color	Class	Packaging
500110	Ø15	☐	HA	1100

AVT 02

Ring nut for thermostatic insert.



Code	Class	Packaging
553003	BG	200 / 1600

VTT 02

Thermostatic insert for standard series valves.



Code	Class	Packaging
500543	BG	100 / 400

VTT 03

Thermostatic insert with flow rate selector for N series valves.



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

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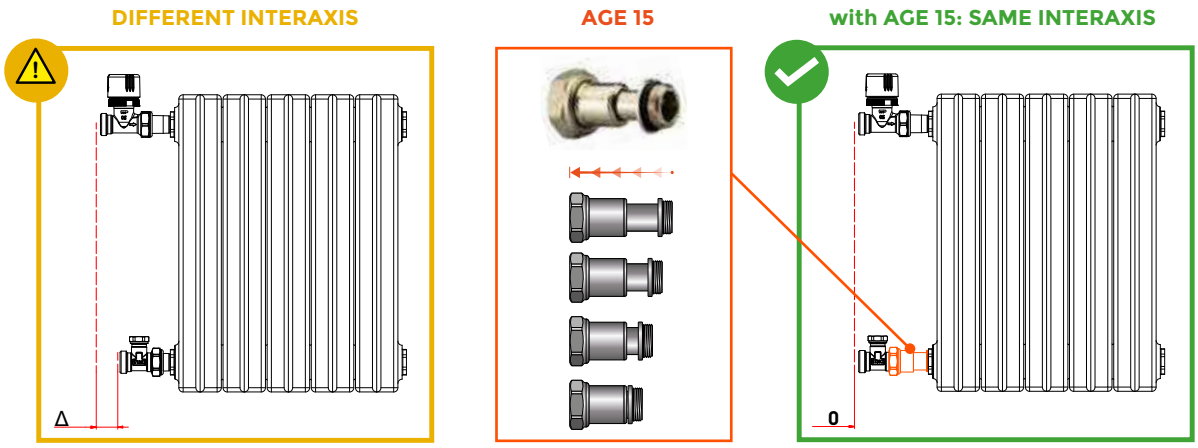
FITTINGS

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.



AGE 15

Extendible sphere fitting.



Code	Size	Color	Class	Packaging
510197	3/8" (Length 38,8 - 53,8 mm)		HA	50 / 200
510198	1/2" (Length 39,8 - 54,8 mm)		HA	50 / 200
501425	1/2" O-ring (Length 36,8 - 51,8 mm)		HA	50 / 200

AGE 04

Spherical fitting elbow with o-ring seal.



Code	Size	Color	Class	Packaging
501201	1/2"		HA	30 / 120

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RR 701

Straight female-female fitting with rotating nut.



Code	Size	Color	Class	Packaging
500632	1/2" F x EUROK		KA	30 / 240
500624	3/4" F x EUROK		KA	30 / 120
500632N	1/2" F x EUROK		KA	20 / 160
500624N	3/4" F x EUROK		KA	25 / 200

RR 4613

Straight male-female fitting.



Code	Size	Color	Class	Packaging
500080	1/2" F x EUROK		KA	50 / 200
500174	3/4" F x EUROK		KA	40 / 160
500081	1/2" F x EUROK		KA	50 / 200
500175	3/4" F x EUROK		KA	40 / 160

AVK 01

Adapter for OPTIMA series, VK series lockshields and H valves.



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

AGE 11

Tapered seal / flat seal seat adaptor.



Code	Size	Color	Class	Packaging
500201	EUROK		HA	150 / 600

AGE 01 N

Soft seal fitting.



Code	Size	Color	Class	Packaging
506074	5/8" F x 3/8" M O-ring		HA	75 / 300
500106	3/4" F x 3/8" M O-ring		HA	50 / 400
501279	3/4" F x 1/2" M O-ring (short version)		HA	50 / 200
500605N	3/4" F x 1/2" M O-ring		HA	50 / 200
501215N	1" F x 3/4" M O-ring		HA	35 / 140
506032N	1" F x 1" M O-ring		HA	20 / 160
506060N	1" F TP x 1" M O-ring		HA	20 / 160
501214N	1"1/4 F x 1" M O-ring		HA	20 / 80
501219	1"1/2 F x 1"1/4 M O-ring		HA	10 / 80

AGE 16

Kit nut and fitting.



Code	Size	Color	Class	Packaging
506201	5/8" F x 3/8" M		HA	75 / 300
506076	3/4" F x 3/8" M		HA	75 / 600
506202	3/4" F x 1/2" M		HA	50 / 200
506203	1" F x 3/4" M		HA	35 / 140

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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

Fig. 1

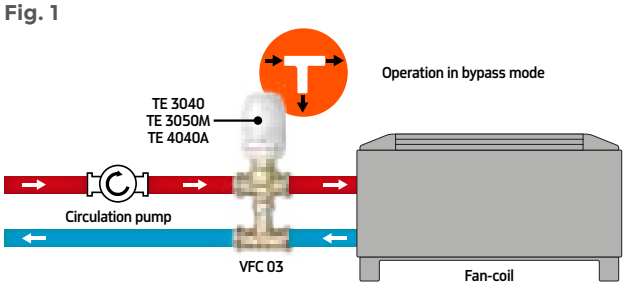


Fig. 2

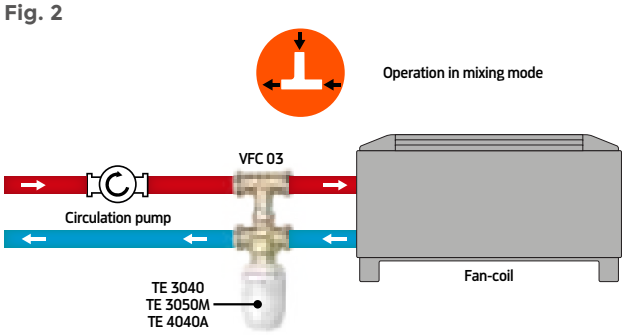
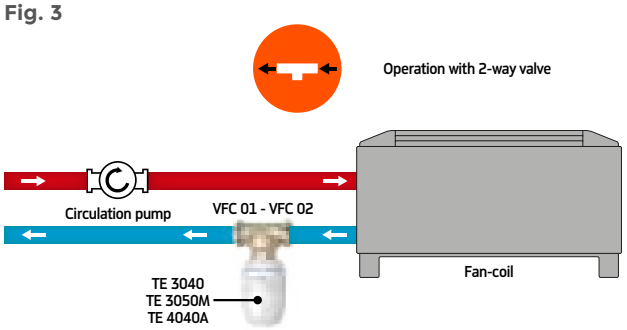


Fig. 3



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VFC 01



2-way fan-coil valve.

Code	Kv	Size	Color	Class	Packaging
570200	0.25	1/2" M		BL	10 / 80
570201	0.40	1/2" M		BL	10 / 80
570202	0.63	1/2" M		BL	10 / 80
570203	1	1/2" M		BL	10 / 80
570204	1.60	1/2" M		BL	10 / 80
506356	2.10	1/2" M		BL	10 / 80
570210	0.25	3/4" M		BL	10 / 80
570211	0.40	3/4" M		BL	10 / 80
570212	0.63	3/4" M		BL	10 / 80
570213	1	3/4" M		BL	10 / 80
570214	1.60	3/4" M		BL	10 / 80

VFC 02



2-way fan-coil valve for high flow capacity.

Code	Kv	Size	Color	Class	Packaging
570220	2.10	3/4" M		BL	10 / 80
570221	3.20	3/4" M		BL	10 / 80
570216	4.50	3/4" M		BL	10 / 80

VFC 03



3-way fan-coil valve.

Code	Kv	Size	OC distance	Color	Class	Packaging
570205	0.25	1/2" M	40 mm		BL	10 / 80
570206	0.40	1/2" M	40 mm		BL	10 / 80
570207	0.63	1/2" M	40 mm		BL	10 / 80
570208	1	1/2" M	40 mm		BL	10 / 80
570209	1.60	1/2" M	40 mm		BL	10 / 80
506098	2.50	3/4" M	50 mm		BL	5 / 40

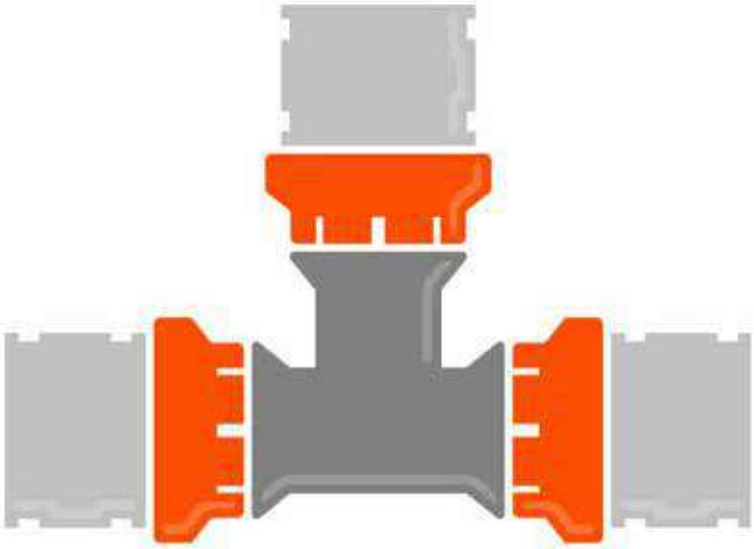


Electrothermal heads >>p. 444

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FITTINGS



INDEX



Multi•Press fittings 68



Multi•Press•Leak fittings with leakage function 88



Plastic•Multi•Press fittings 97



Basic fittings 100



Screw fittings 107



Fittings for under-floor distribution systems 112



Accessories and spare parts for fittings 104



Tools and general accessories 114



MULTI•PRESS FITTINGS

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).

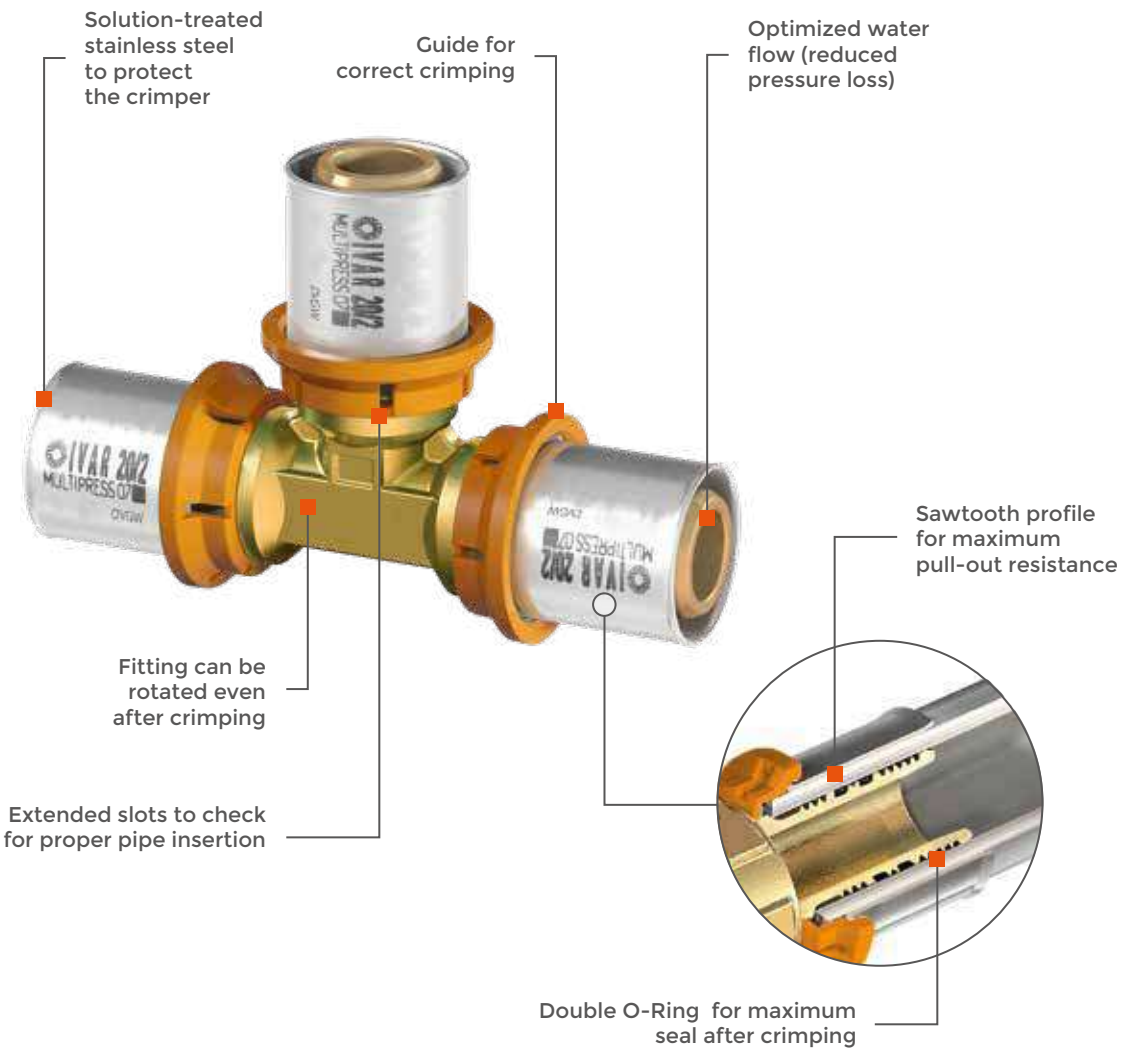
The geometry of the fitting, which was designed to provide optimal coupling between pipe and fitting after pressing and the windows on the bushing flange used to verify that the pipe and two peroxide EPDM O-rings on each end have been inserted properly are all details that help to ensure the applicability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

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

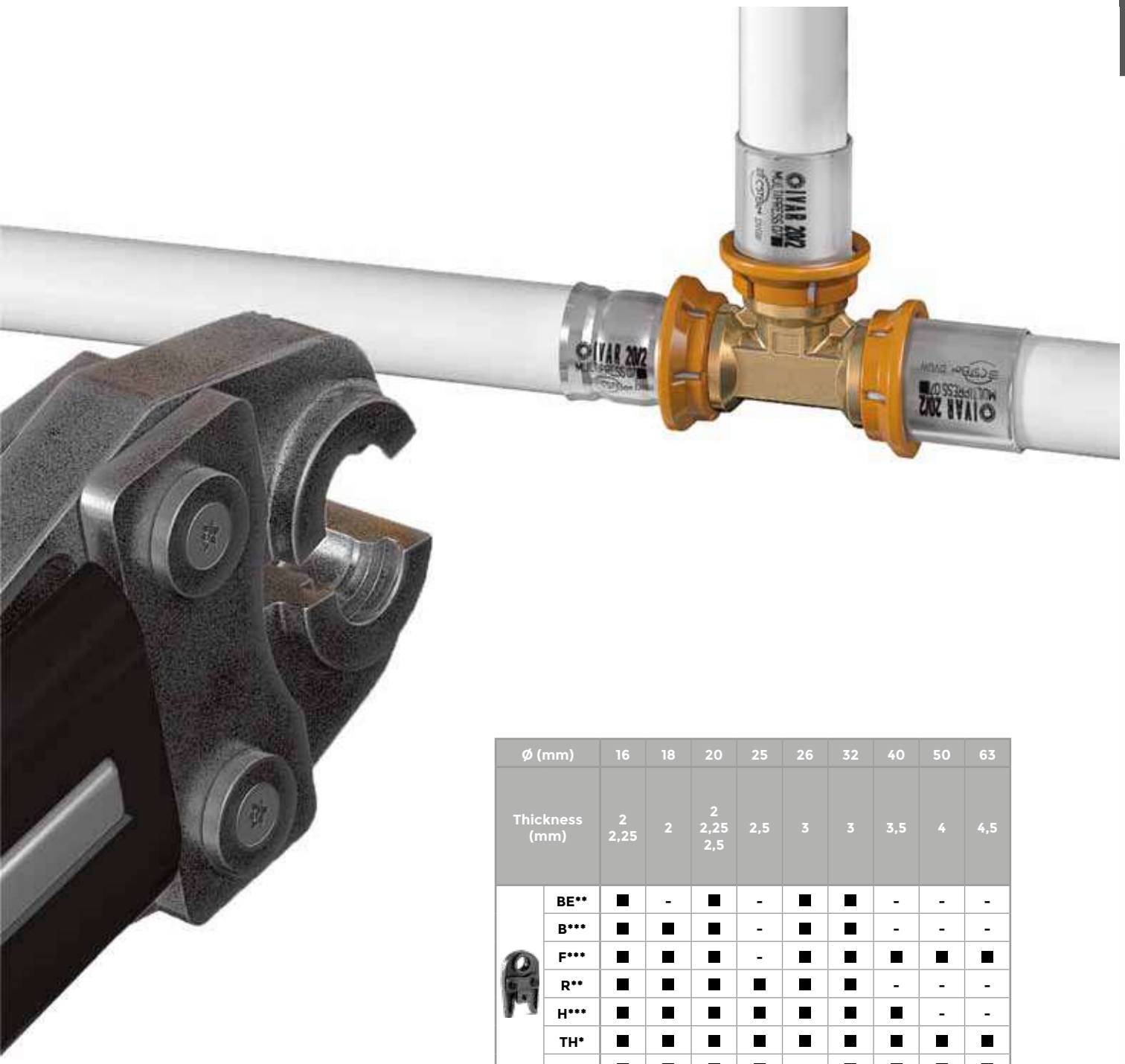
Technical specifications
Maximum operating temperature: 120 °C
Maximum operating static pressure: 10 bar

+ PLUS

- Body in CW617N brass
- Compatible with all TH - H/R - U - B/BE - F crimping profiles
- Complete range of figures
- Ø from 16 to 63 mm



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Ø (mm)		16	18	20	25	26	32	40	50	63
Thickness (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

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MP 5700 R

Straight reduced fitting.



Code	Size	Class	Packaging
510040MP	16/2 x 18/2	IM	40 / 160
510008MP	16/2 x 20/2	IM	40 / 160
512103MP	16/2 x 20/2,5	IM	40 / 160
510135MP	16/2 x 25/2,5	IM	20 / 80
510009MP	16/2 x 26/3	IM	20 / 80
510024MP	16/2 x 32/3	IM	15 / 60
511031MP	16/2,25 x 20/2,25	IM	40 / 160
511032MP	16/2,25 x 20/2,5	IM	40 / 160
510039MP	18/2 x 20/2	IM	40 / 160
510041MP	18/2 x 26/3	IM	20 / 80
510200MP	20/2 x 20/2,5	IM	40 / 160
510137MP	20/2 x 25/2,5	IM	20 / 80
510010MP	20/2 x 26/3	IM	20 / 80
510023MP	20/2 x 32/3	IM	15 / 60
511035MP	20/2,25 x 25/2,5	IM	20 / 80
511036MP	20/2,25 x 26/3	IM	20 / 80
511038MP	20/2,5 x 25/2,5	IM	20 / 80
511039MP	20/2,5 x 26/3	IM	20 / 80
510181MP	25/2,5 x 26/3	IM	20 / 80
510138MP	25/2,5 x 32/3	IM	15 / 60
510019MP	26/3 x 32/3	IM	15 / 60

MP 5700 XLR

Straight reduced fitting.



Code	Size	Class	Packaging
510129	20/2 x 40/3,5	IB	1 / 20
510139	25/2,5 x 40/3,5	IB	1 / 20
510108	26/3 x 40/3,5	IB	1 / 20
510173	25/2,5 x 50/4	IB	1 / 15
510128	26/3 x 50/4	IB	1 / 15
510031	32/3 x 40/3,5	IB	1 / 20
510103	32/3 x 50/4	IB	1 / 15
510029	40/3,5 x 50/4	IB	1 / 12
510054	40/3,5 x 63/4,5	IB	1 / 7
510055	50/4 x 63/4,5	IB	1 / 7

MP 5700

Straight fitting.



Code	Size	Class	Packaging
510005MP	16/2 x 16/2	IM	40 / 160
511030MP	16/2,25 x 16/2,25	IM	40 / 160
510006MP	20/2 x 20/2	IM	30 / 120
511034MP	20/2,25 x 20/2,25	IM	40 / 160
511037MP	20/2,5 x 20/2,5	IM	40 / 160
510134MP	25/2,5 x 25/2,5	IM	20 / 80
510007MP	26/3 x 26/3	IM	20 / 80
510020MP	32/3 x 32/3	IM	15 / 60

MP 5700 XL

Straight fitting.



Code	Size	Class	Packaging
510030	40/3,5 x 40/3,5	IB	1 / 20
510028	50/4 x 50/4	IB	1 / 12
510053	63/4,5 x 63/4,5	IB	1 / 5

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MP 5704

45° fitting.



Code	Size	Class	Packaging
510169MP	25/2,5 x 25/2,5	IM	15 / 60
510099MP	26/3 x 26/3	IM	15 / 60
510100MP	32/3 x 32/3	IM	10 / 40

MP 5704 XL

45° fitting.



Code	Size	Class	Packaging
510101	40/3,5 x 40/3,5	IB	1 / 12
510102	50/4 x 50/4	IB	1 / 6
511093	63/4,5 x 63/4,5	IB	1 / 3

MP 5710

Angle fitting.



Code	Size	Class	Packaging
511009MP	16/2 x 16/2	IM	30 / 120
511053MP	16/2,25 x 16/2,25	IM	30 / 120
511018MP	18/2 x 18/2	IM	30 / 120
511010MP	20/2 x 20/2	IM	30 / 120
511054MP	20/2,25 x 20/2,25	IM	30 / 120
511055MP	20/2,5 x 20/2,5	IM	30 / 120
510140MP	25/2,5 x 25/2,5	IM	15 / 60
511011MP	26/3 x 26/3	IM	15 / 60
511012MP	32/3 x 32/3	IM	10 / 40

MP 5710 XL

Angle fitting.



Code	Size	Class	Packaging
510035	40/3,5 x 40/3,5	IB	1 / 10
510036	50/4 x 50/4	IB	1 / 5
510056	63/4,5 x 63/4,5	IB	1 / 3

MP 5720

Tee fitting.



Code	Size	Class	Packaging
512001MP	16/2 x 16/2 x 16/2	IM	20 / 80
511067MP	16/2,25 x 16/2,25 x 16/2,25	IM	20 / 80
512054MP	18/2 x 18/2 x 18/2	IM	16 / 64
512002MP	20/2 x 20/2 x 20/2	IM	16 / 64
511070MP	20/2,25 x 20/2,25 x 20/2,25	IM	16 / 64
511073MP	20/2,5 x 20/2,5 x 20/2,5	IM	16 / 64
510143MP	25/2,5 x 25/2,5 x 25/2,5	IM	10 / 40
512003MP	26/3 x 26/3 x 26/3	IM	10 / 40
512020MP	32/3 x 32/3 x 32/3	IM	8 / 32

MP 5720 XL

Tee fitting.



Code	Size	Class	Packaging
512035	40/3,5 x 40/3,5 x 40/3,5	IB	1 / 6
512036	50/4 x 50/4 x 50/4	IB	1 / 3
510058	63/4,5 x 63/4,5 x 63/4,5	IB	1 / 2

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MP 5720 RLL

Tee fitting with reduced side connections.



Code	Size	Class	Packaging
512056MP	16/2 x 18/2 x 16/2	IM	16 / 64
512013MP	16/2 x 20/2 x 16/2	IM	16 / 64
510147MP	20/2 x 25/2,5 x 20/2	IM	12 / 48
512014MP	20/2 x 26/3 x 20/2	IM	12 / 48
512051MP	20/2 x 32/3 x 20/2	IM	8 / 32
510179MP	25/2,5 x 32/3 x 25/2,5	IM	8 / 32
512019MP	26/3 x 32/3 x 26/3	IM	8 / 32

MP 5720 XLRLL

Tee fitting with reduced side connections.



Code	Size	Class	Packaging
510120	32/3 x 40/3,5 x 32/3	IB	1 / 8
510127	40/3,5 x 50/4 x 40/3,5	IB	1 / 3
510122	50/4 x 63/4,5 x 50/4	IB	1 / 3

MP 5720 RC

Tee fitting with reduced central connection.



Code	Size	Class	Packaging
512055MP	18/2 x 16/2 x 18/2	IM	16 / 64
512004MP	20/2 x 16/2 x 20/2	IM	16 / 64
510182MP	20/2,25 x 16/2 x 20/2,25	IM	16 / 64
511071MP	20/2,5 x 16/2 x 20/2,5	IM	16 / 64
511072MP	20/2,5 x 16/2,25 x 20/2,5	IM	16 / 64
510144MP	25/2,5 x 16/2 x 25/2,5	IM	12 / 48
511074MP	25/2,5 x 16/2,25 x 25/2,5	IM	12 / 48
510146MP	25/2,5 x 20/2 x 25/2,5	IM	12 / 48
511075MP	25/2,5 x 20/2,25 x 25/2,5	IM	12 / 48
511076MP	25/2,5 x 20/2,5 x 25/2,5	IM	12 / 48
512005MP	26/3 x 16/2 x 26/3	IM	12 / 48
511077MP	26/3 x 16/2,25 x 26/3	IM	12 / 48
512059MP	26/3 x 18/2 x 26/3	IM	12 / 48
512006MP	26/3 x 20/2 x 26/3	IM	12 / 48
511078MP	26/3 x 20/2,25 x 26/3	IM	12 / 48
511079MP	26/3 x 20/2,5 x 26/3	IM	12 / 48
512015MP	32/3 x 16/2 x 32/3	IM	8 / 32
512060MP	32/3 x 18/2 x 32/3	IM	8 / 32
512016MP	32/3 x 20/2 x 32/3	IM	8 / 32
511081MP	32/3 x 20/2,25 x 32/3	IM	8 / 32
511082MP	32/3 x 20/2,5 x 32/3	IM	8 / 32
510174MP	32/3 x 25/2,5 x 32/3	IM	8 / 32
512018MP	32/3 x 26/3 x 32/3	IM	8 / 32

MP 5720 XLRC

Tee fitting with reduced central connection.



Code	Size	Class	Packaging
512089	40/3,5 x 20/2 x 40/3,5	IB	1 / 7
510175	40/3,5 x 25/2,5 x 40/3,5	IB	1 / 7
512090	40/3,5 x 26/3 x 40/3,5	IB	1 / 7
512037	40/3,5 x 32/3 x 40/3,5	IB	1 / 7
512091	50/4 x 20/2 x 50/4	IB	1 / 5
510176	50/4 x 25/2,5 x 50/4	IB	1 / 5
512092	50/4 x 26/3 x 50/4	IB	1 / 5
512039	50/4 x 32/3 x 50/4	IB	1 / 5
512038	50/4 x 40/3,5 x 50/4	IB	1 / 3
510177	63/4,5 x 25/2,5 x 63/4,5	IB	1 / 3
512093	63/4,5 x 26/3 x 63/4,5	IB	1 / 3
512094	63/4,5 x 32/3 x 63/4,5	IB	1 / 3
512095	63/4,5 x 40/3,5 x 63/4,5	IB	1 / 3
510059	63/4,5 x 50/4 x 63/4,5	IB	1 / 2

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MP 5720 RCL

Tee fitting with reduced central and side connection.



Code	Size	Class	Packaging
512058MP	16/2 x 16/2 x 18/2	IM	16 / 64
512009MP	16/2 x 16/2 x 20/2	IM	16 / 64
511068MP	16/2 x 16/2 x 20/2,25	IM	16 / 64
512101MP	16/2 x 16/2 x 20/2,5	IM	16 / 64
512064MP	18/2 x 18/2 x 20/2	IM	16 / 64
512062MP	18/2 x 18/2 x 26/3	IM	10 / 40
510154MP	20/2 x 20/2 x 25/2,5	IM	12 / 48
512012MP	20/2 x 20/2 x 26/3	IM	12 / 48
512021MP	20/2 x 20/2 x 32/3	IM	8 / 32
510155MP	25/2,5 x 25/2,5 x 32/3	IM	8 / 32
512017MP	26/3 x 26/3 x 32/3	IM	8 / 32

MP 5720 XLRCL

Tee fitting with reduced central and side connection.



Code	Size	Class	Packaging
510156	25/2,5 x 25/2,5 x 40/3,5	IB	1 / 8
510116	26/3 x 26/3 x 40/3,5	IB	1 / 8
510118	32/3 x 32/3 x 40/3,5	IB	1 / 8
510125	40/3,5 x 40/3,5 x 50/4	IB	1 / 3
510121	50/4 x 50/4 x 63/4,5	IB	1 / 3

MP 5720 RL

Tee fitting with reduced side connection.



Code	Size	Class	Packaging
512007MP	20/2 x 20/2 x 16/2	IM	16 / 64
510148MP	25/2,5 x 25/2,5 x 16/2	IM	12 / 48
510150MP	25/2,5 x 25/2,5 x 20/2	IM	12 / 48
512048MP	26/3 x 26/3 x 16/2	IM	12 / 48
512063MP	26/3 x 26/3 x 18/2	IM	10 / 40
512008MP	26/3 x 26/3 x 20/2	IM	12 / 48
512068MP	32/3 x 32/3 x 16/2	IM	8 / 32
512052MP	32/3 x 32/3 x 20/2	IM	8 / 32
510151MP	32/3 x 32/3 x 25/2,5	IM	8 / 32
512053MP	32/3 x 32/3 x 26/3	IM	8 / 32

MP 5720 XLRL

Tee fitting with reduced side connection.



Code	Size	Class	Packaging
510152	40/3,5 x 40/3,5 x 25/2,5	IB	1 / 8
510117	40/3,5 x 40/3,5 x 26/3	IB	1 / 8
510119	40/3,5 x 40/3,5 x 32/3	IB	1 / 8
510124	50/4 x 50/4 x 32/3	IB	1 / 5
510126	50/4 x 50/4 x 40/3,5	IB	1 / 3
510123	63/4,5 x 63/4,5 x 50/4	IB	1 / 3

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MP 5720 RR

Tee fitting with double reduction connections.



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

MP 5728

Double crossed T fitting for skirting board plants.



Code	Size	Class	Packaging
512080MP	16/2-16/2 x 16/2-16/2 x 16/2-16/2	IM	3 / 12
512082MP	20/2-20/2 x 16/2-16/2 x 20/2-20/2	IM	3 / 12
512083MP	20/2-20/2 x 16/2-16/2 x 16/2-16/2	IM	3 / 12
512084MP	16/2-16/2 x 20/2-20/2 x 16/2-16/2	IM	3 / 12
512085MP	20/2-20/2 x 20/2-20/2 x 20/2-20/2	IM	3 / 12
512086MP	20/2-20/2 x 20/2-20/2 x 16/2-16/2	IM	3 / 12
512096MP	16/2-16/2 x 16/2-16/2 x 20/2-20/2	IM	3 / 12
512097MP	16/2-16/2 x 20/2-20/2 x 20/2-20/2	IM	3 / 12

MP 5608

Straight male fitting.



Code	Size	Class	Packaging
510084MP	3/8" M x 16/2	IM	50 / 200
510001MP	1/2" M x 16/2	IM	40 / 160
511045MP	1/2" M x 16/2,25	IM	40 / 160
510105MP	3/4" M x 16/2	IM	30 / 120
510042MP	1/2" M x 18/2	IM	40 / 160
510043MP	3/4" M x 18/2	IM	30 / 120
510002MP	1/2" M x 20/2	IM	40 / 160
511046MP	1/2" M x 20/2,25	IM	40 / 160
511047MP	1/2" M x 20/2,5	IM	40 / 160
510003MP	3/4" M x 20/2	IM	30 / 120
511048MP	3/4" M x 20/2,25	IM	30 / 120
511049MP	3/4" M x 20/2,5	IM	30 / 120
510130MP	3/4" M x 25/2,5	IM	30 / 120
510131MP	1" M x 25/2,5	IM	20 / 80
510004MP	3/4" M x 26/3	IM	30 / 120
510044MP	1" M x 26/3	IM	20 / 80
510021MP	1" M x 32/3	IM	20 / 80
510106MP	1"1/4 M x 32/3	IM	10 / 40

MP 5608 XL

Straight male fitting.



Code	Size	Class	Packaging
510032	1"1/4 M x 40/3,5	IB	1 / 20
510027	1"1/2 M x 50/4	IB	1 / 12
510052	2" M x 63/4,5	IB	1 / 8

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MP 5711

Male angle fitting.



Code	Size	Class	Packaging
511123MP	3/8" M x 16/2	IM	40 / 160
511001MP	1/2" M x 16/2	IM	40 / 160
511062MP	1/2" M x 16/2,25	IM	40 / 160
511021MP	1/2" M x 18/2	IM	30 / 120
511002MP	1/2" M x 20/2	IM	30 / 120
511063MP	1/2" M x 20/2,25	IM	30 / 120
511064MP	1/2" M x 20/2,5	IM	30 / 120
511003MP	3/4" M x 20/2	IM	20 / 80
511065MP	3/4" M x 20/2,25	IM	20 / 80
511066MP	3/4" x 20/2,5	IM	20 / 80
510141MP	3/4" M x 25/2,5	IM	20 / 80
511004MP	3/4" M x 26/3	IM	20 / 80
510229MP	1" M x 25/2,5	IM	15 / 120
511113MP	1" M x 26/3	IM	10 / 40
511013MP	1" M x 32/3	IM	10 / 40

MP 5721

Male tee fitting.



Code	Size	Class	Packaging
512029MP	16/2 x 1/2" M x 16/2	IM	20 / 80
512066MP	18/2 x 1/2" M x 18/2	IM	16 / 64
512030MP	20/2 x 1/2" M x 20/2	IM	16 / 64
511091MP	20/2,25 x 1/2" M x 20/2,25	IM	16 / 64
511092MP	20/2,5 x 1/2" M x 20/2,5	IM	16 / 64
512031MP	16/2 x 3/4" M x 16/2	IM	20 / 80
511101MP	18/2 x 3/4" M x 18/2	IM	16 / 64
512032MP	20/2 x 3/4" M x 20/2	IM	16 / 64
510161MP	25/2,5 x 3/4" M x 25/2,5	IM	10 / 40
512067MP	26/3 x 3/4" M x 26/3	IM	10 / 40

MP 5711 XL

Male angle fitting.



Code	Size	Class	Packaging
510033	1"1/4 M x 40/3,5	IB	1 / 15
510034	1"1/2 M x 50/4	IB	1 / 7
510057	2" M x 63/4,5	IB	1 / 5

MP 5711 L

Male angle long fitting.



Code	Size	Class	Packaging
511001LMP	1/2" M x 16/2	IM	40 / 160
511002LMP	1/2" M x 20/2	IM	30 / 120

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MP 5703

Straight fitting with flat seal and rotating nut.



Code	Size	Class	Packaging
510110MP	3/8" F x 16/2	IM	40 / 160
510085MP	1/2" F x 16/2	IM	40 / 160
510087MP	1/2" F x 20/2	IM	30 / 120
510076MP	3/4" F x 16/2	IM	30 / 120
510077MP	3/4" F x 18/2	IM	30 / 120
510078MP	3/4" F x 20/2	IM	30 / 120
510195MP	3/4" F x 20/2,5	IM	40 / 160
510171MP	3/4" F x 25/2,5	IM	30 / 120
510088MP	3/4" F x 26/3	IM	30 / 120
510172MP	1" F x 25/2,5	IM	25 / 100
510079MP	1" F x 26/3	IM	25 / 100
510089MP	1" F x 32/3	IM	20 / 80
510080MP	1"1/4 F x 32/3	IM	15 / 60

MP 5613

Straight female fitting.



Code	Size	Class	Packaging
510011MP	1/2" F x 16/2	IM	40 / 160
511040MP	1/2" F x 16/2,25	IM	40 / 160
510109MP	3/4" F x 16/2	IM	30 / 120
510046MP	3/4" F x 18/2	IM	30 / 120
510012MP	1/2" F x 20/2	IM	40 / 160
511041MP	1/2" F x 20/2,25	IM	40 / 160
511042MP	1/2" F x 20/2,5	IM	40 / 160
510013MP	3/4" F x 20/2	IM	30 / 120
511044MP	3/4" F x 20/2,5	IM	30 / 120
510132MP	3/4" F x 25/2,5	IM	20 / 80
510133MP	1" F x 25/2,5	IM	15 / 60
510014MP	3/4" F x 26/3	IM	20 / 80
510047MP	1" F x 26/3	IM	15 / 60
510022MP	1" F x 32/3	IM	15 / 60

MP 5703 XL

Straight fitting with flat seal and rotating nut.



Code	Size	Class	Packaging
510081	1"1/2 F x 40/3,5	IB	1 / 20
510098	1"1/2 F x 50/4	IB	1 / 15
510082	1"3/4 F x 50/4	IB	1 / 15
510083	2" F x 63/4,5	IB	1 / 8

MP 5613 XL

Straight female fitting.



Code	Size	Class	Packaging
510183	1"1/4 F x 40/3,5	IB	1 / 15
510184	1"1/2 F x 50/4	IB	1 / 12
510185	2" F x 63/4,5	IB	1 / 5

MP 5705

Straight fitting with rotating nut.



Code	Size	Class	Packaging
510017MP	EUROK x 16/2	IM	30 / 120
513020MP	EUROK x 18/2	IM	30 / 120
510018MP	EUROK x 20/2	IM	30 / 120

MP 5609

Straight male soft seal fitting.



Code	Size	Class	Packaging
510048MP	1/2" M O-ring x 16/2	IM	40 / 160
511050MP	1/2" M O-ring x 16/2,25	IM	40 / 160
510050MP	1/2" M O-ring x 20/2	IM	40 / 160
511051MP	1/2" M O-ring x 20/2,25	IM	40 / 160

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MP 5712

Female angle fitting.



Code	Size	Class	Packaging
511005MP	1/2" F x 16/2	IM	30 / 120
511056MP	1/2" F x 16/2,25	IM	30 / 120
511019MP	1/2" F x 18/2	IM	30 / 120
511006MP	1/2" F x 20/2	IM	30 / 120
511057MP	1/2" F x 20/2,25	IM	30 / 120
511058MP	1/2" F x 20/2,5	IM	30 / 120
511007MP	3/4" F x 20/2	IM	25 / 100
511059MP	3/4" F x 20/2,25	IM	25 / 100
511060MP	3/4" F x 20/2,5	IM	25 / 100
510142MP	3/4" F x 25/2,5	IM	20 / 80
511008MP	3/4" F x 26/3	IM	20 / 80
511114MP	1" F x 26/3	IM	10 / 40
511014MP	1" F x 32/3	IM	10 / 40

MP 5712 L

Female angle long fitting.



Code	Size	Class	Packaging
511029MP	1/2" F x 16/2	IM	25 / 100
511061MP	1/2" F x 16/2,25	IM	25 / 100
511102MP	1/2" F x 18/2	IM	25 / 100
511103MP	1/2" F x 20/2	IM	25 / 100
511104MP	1/2" F x 20/2,25	IM	25 / 100
511105MP	1/2" F x 20/2,5	IM	25 / 100

MP 5712 XL

Female angle fitting.



Code	Size	Class	Packaging
510186	1"1/4 F x 40/3,5	IB	1 / 15
510187	1"1/2 F x 50/4	IB	1 / 7
510188	2" F x 63/4,5	IB	1 / 5

MP 5717

Angle fitting with flat seal and rotating nut.



Code	Size	Class	Packaging
512109MP	3/8" F x 16/2	IM	30 / 120
512033MP	1/2" F x 16/2	IM	30 / 120
512110MP	1/2" F x 20/2	IM	30 / 120
512034MP	3/4" F x 16/2	IM	30 / 120
512111MP	3/4" F x 20/2	IM	30 / 120
512112MP	3/4" F x 26/3	IM	20 / 80
512113MP	1" F x 26/3	IM	10 / 40

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MP 5722

Female tee fitting.



Code	Size	Class	Packaging
512022MP	16/2 x 1/2" F x 16/2	IM	20 / 80
511083MP	16/2,25 x 1/2" F x 16/2,25	IM	20 / 80
512028MP	16/2 x 3/4" F x 16/2	IM	16 / 64
512065MP	18/2 x 1/2" F x 18/2	IM	16 / 64
512045MP	18/2 x 3/4" F x 18/2	IM	16 / 64
512027MP	20/2 x 1/2" F x 20/2	IM	16 / 64
511084MP	20/2,25 x 1/2" F x 20/2,25	IM	16 / 64
511085MP	20/2,5 x 1/2" F x 20/2,5	IM	16 / 64
512023MP	20/2 x 3/4" F x 20/2	IM	16 / 64
511089MP	20/2,5 x 3/4" F x 20/2,5	IM	16 / 64
510162MP	25/2,5 x 1/2" F x 20/2	IM	12 / 48
510163MP	25/2,5 x 1/2" F x 25/2,5	IM	12 / 48
510164MP	25/2,5 x 3/4" F x 25/2,5	IM	10 / 40
512047MP	26/3 x 1/2" F x 20/2	IM	12 / 48
512046MP	26/3 x 1/2" F x 26/3	IM	12 / 48
512042MP	26/3 x 3/4" F x 26/3	IM	10 / 40
512104MP	26/3 x 1" F x 26/3	IM	10 / 40
512043MP	32/3 x 3/4" F x 32/3	IM	10 / 40
512044MP	32/3 x 1" F x 32/3	IM	10 / 40

MP 5722 XL

Female tee fitting.



Code	Size	Class	Packaging
512040	40/3,5 x 3/4" F x 40/3,5	IB	1 / 7
512087	40/3,5 x 1" F x 40/3,5	IB	1 / 10
512049	40/3,5 x 1"1/4 F x 40/3,5	IB	1 / 6
512041	50/4 x 3/4" F x 50/4	IB	1 / 6
512088	50/4 x 1" F x 50/4	IB	1 / 6
510115	50/4 x 1"1/4 F x 50/4	IB	1 / 6
511124	50/4 x 1"1/2 F x 50/4	IB	1 / 6
510060	63/4,5 x 1" F x 63/4,5	IB	1 / 4
510061	63/4,5 x 1"1/4 F x 63/4,5	IB	1 / 4
511125	63/4,5 x 2" F x 63/4,5	IB	1 / 2

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MP 5729



Built-in valve with screw shut-off, press-fit connections, chrome-plated knob and plate.

Code	Size	Class	Packaging
510189MMP	16/2 x 16/2	IM	3 / 12
510192MMP	16/2,25 x 16/2,25	IM	3 / 12
510191MMP	20/2 x 20/2	IM	3 / 12
510193MMP	20/2,25 x 20/2,25	IM	3 / 12
510194MMP	20/2,5 x 20/2,5	IM	3 / 12



Extension for built in valve AR 22 >>p. 105

MP 5730



Built-in tap with screw shut-off valve, press-fit connections, chrome-plated cap and plate.

Code	Size	Class	Packaging
510189CMP	16/2 x 16/2	IM	3 / 12
510192CMP	16/2,25 x 16/2,25	IM	3 / 12
510190CMP	18/2 x 18/2	IM	3 / 12
510191CMP	20/2 x 20/2	IM	3 / 12
510193CMP	20/2,25 x 20/2,25	IM	3 / 12
510194CMP	20/2,5 x 20/2,5	IM	3 / 12



Extension for built in valve AR 22 >>p. 105

MP 5738



Built-in valve with ball shut-off and press-fit connections.

Code	Size	Class	Packaging
512124MP	16/2 x 16/2	IM	5 / 20
512125MP	20/2 x 20/2	IM	5 / 20
512126MP	26/3 x 26/3	IM	5 / 20
512127MP	32/3 x 32/3	IM	4 / 16



Threaded cap and plate AR 25 >> p. 104



Lever and plate AR 26 >> p. 104



Knob and plate AR 27 >> p. 104



Extension (+25 mm) AR 28 >>p. 104

MP 5737



Built-in valve with ball shut-off, press-fit connections and lever operation.

Code	Size	Class	Packaging
512120MP	16/2 x 16/2	IM	8 / 32
512121MP	20/2 x 20/2	IM	8 / 32
512122MP	26/3 x 26/3	IM	6 / 24
512123MP	32/3 x 32/3	IM	5 / 20

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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).

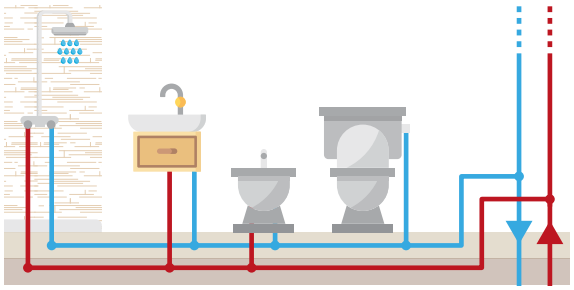


Figure 1. Bypass system

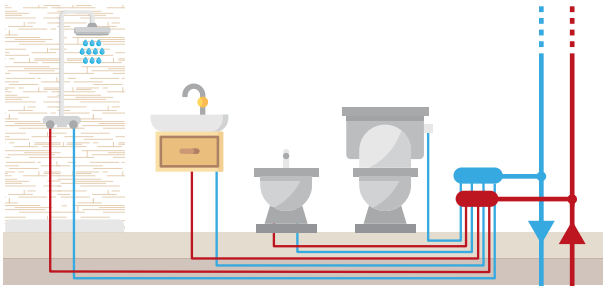


Figure 2. Manifold system

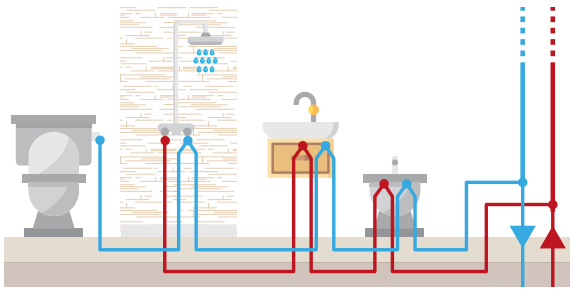


Figure 3. Series system

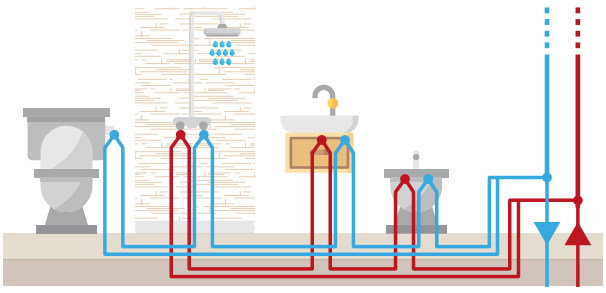


Figure 4. Ring system

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MP 5780

Double wall fitting.



Code	Size	Class	Packaging
510062MP	1/2" F x 16/2	IM	8 / 32
510064MP	1/2" F x 20/2	IM	8 / 32

MP 5781

Double wall fitting 90°.



Code	Size	Class	Packaging
511106MP	1/2" F x 16/2	IM	8 / 32
511108MP	1/2" F x 20/2	IM	8 / 32

MP 5760

Wall fitting.



Code	Size	Height	Class	Packaging
513001CMP	1/2" F x 16/2	40 mm	IM	15 / 60
513014CMP	1/2" F x 18/2	40 mm	IM	15 / 60
513002CMP	1/2" F x 20/2	40 mm	IM	15 / 60
513001MP	1/2" F x 16/2	52 mm	IM	15 / 60
513001MPHD	1/2" F x 16/2 (Heavy version)	52 mm	IM	15 / 60
511096MP	1/2" F x 16/2,25	52 mm	IM	15 / 60
513014MP	1/2" F x 18/2	52 mm	IM	15 / 60
513002MP	1/2" F x 20/2	52 mm	IM	15 / 60
511097MP	1/2" F x 20/2,25	52 mm	IM	15 / 60
511098MP	1/2" F x 20/2,5	52 mm	IM	15 / 60
513003MP	3/4" F x 20/2	57 mm	IM	10 / 40
511099MP	3/4" F x 20/2,25	57 mm	IM	10 / 40
511100MP	3/4" F x 20/2,5	57 mm	IM	10 / 40
510167MP	3/4" F x 25/2,5	57 mm	IM	10 / 40
513004MP	3/4" F x 26/3	57 mm	IM	10 / 40
513001LMP	1/2" F x 16/2	77 mm	IM	10 / 40
513002LMP	1/2" F x 20/2	77 mm	IM	10 / 40

MP 5761

Wall fittings (kit with AS 1929).



Code	Size	Height	Class	Packaging
513024CMP	1/2" F x 16/2	40 mm	IM	1 / 15
513026CMP	1/2" F x 18/2	40 mm	IM	1 / 15
513025CMP	1/2" F x 20/2	40 mm	IM	1 / 15
513024MP	1/2" F x 16/2	52 mm	IM	1 / 15
513026MP	1/2" F x 18/2	52 mm	IM	1 / 15
513025MP	1/2" F x 20/2	52 mm	IM	1 / 15
513024LMP	1/2" F x 16/2	77 mm	IM	1 / 15
513025LMP	1/2" F x 20/2	77 mm	IM	1 / 15

MP 5762

Wall fittings (kit with AS 1927).



Code	Size	Height	Class	Packaging
513027CMP	1/2" F x 16/2	40 mm	IM	1 / 15
513028CMP	1/2" F x 18/2	40 mm	IM	1 / 15
513029CMP	1/2" F x 20/2	40 mm	IM	1 / 15
513027MP	1/2" F x 16/2	52 mm	IM	1 / 15
513028MP	1/2" F x 18/2	52 mm	IM	1 / 15
513029MP	1/2" F x 20/2	52 mm	IM	1 / 15
513027LMP	1/2" F x 16/2	77 mm	IM	1 / 15
513029LMP	1/2" F x 20/2	77 mm	IM	1 / 15

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FOCUS: PRO-FIX

PRO-FIX is a double-connection fixing kit for connecting pipes to taps, suitable for plasterboard, wood and masonry walls, which allows you to create a support structure and guarantees precise and durable installation.
This system solution provides an entry point from the wall, fixing the taps and connecting the pipes that supply them; once fixed, the plate can be covered with the same tiles as the bathroom, creating an effect of aesthetic continuity.
The system comes complete with a plate, including fixing elements (screws + plugs) and has a standard centre distance of 150 mm (can be cut to size for customised centre distances) and special elbow fittings.

The kit consists of:
- 2 special brass elbow 1/2" F fittings with different connections:
  - version with Ø16 and Ø20 press fittings
  - version with 3/4" EUROK connections for coupling with compression fittings (to be purchased separately).
- 1 wall outlet plate (in stainless steel) which can be sectioned, if necessary, for customised centre distances and with notches to facilitate correct alignment.
- 8 expansion plugs M8 with screws for fixing the plate.
- Template for fixing the plate pre-cut on the packaging box
- 2 ring nuts
- Plugs for installation phase

Front view



Rear view



PRO-FIX 5732 MP



Universal plasterboard fixing kit complete with:
- 2 pcs >> female angle fittings with press connection;
- 1 pc >> stainless steel fixing plate;
- 8 pcs >> M8 expansion plugs with screws;
- 1 pc >> pre-cut template on the packaging box;
- 2 pcs >> ring nuts;
- 2 pcs >> caps for installation phase.

Code	Size	Class	Packaging
520530MP	1/2" F x 16/2	IM	1 / 4
520531MP	1/2" F x 20/2	IM	1 / 4



PRO-FIX 5732 RM >>p. 103

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FOCUS: MP 5736

The MP 5736 fittings are transition fittings to pass from copper (or steel) to multilayer pipe (or vice versa).
They are made of Cuphin (CW724R), an alloy suitable for sanitary applications and accepted by various international protocols for materials in contact with drinking water.
Both terminal parts of the fitting are press-fit: one side is a terminal for pressing the multilayer pipe with the classic IVAR MULTIPRESS profile and therefore compatible with the H, TH, B, F and U profiles, on the other hand there is a terminal for pressing copper or steel pipes using profiles SA, M and V.
The compatible metal pipes are made of copper compliant with EN 1057 or steel compliant with EN 10312 (tables 1 and 2).



MP 5736



Straight fitting with connection for copper/steel pipe.

Code	Size	Class	Packaging
512114MPC	Ø15 x 16/2	I7	40 / 160
512115MPC	Ø15 x 20/2	I7	30 / 120
512116MPC	Ø22 x 20/2	I7	30 / 120
512117MPC	Ø22 x 26/3	I7	20 / 80
512119MPC	Ø28 x 32/3	I7	20 / 80

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FOCUS: 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



Under-floor distribution box with 90° press-fitting (Kit).

Code	Size	Color	Class	Packaging
513042MP	1/2" F x 16/2	-	IM	4 / 48
513044MP	1/2" F x 20/2	-	IM	4 / 48

MP 5610 B



Under-floor distribution box with 90° press-fitting.

Code	Size	Color	Class	Packaging
500304MP	1/2" F x 16/2		IM	8 / 96
500306MP	1/2" F x 20/2		IM	8 / 96

MP 5610 R



Under-floor distribution box with 90° press-fitting.

Code	Size	Color	Class	Packaging
500304RMP	1/2" F x 16/2		IM	8 / 96
500306RMP	1/2" F x 20/2		IM	8 / 96



AS 1925 >> p. 106



RR 702 >>p. 106

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MP 5723

Wall fitting for horizontal chases.



Code	Size	Class	Packaging
513005MP	16/2 x 1/2" F x 16/2	IM	12 / 48
513007MP	20/2 x 1/2" F x 20/2	IM	12 / 48

MP 5763

Wall fittings for horizontal chases (kit with AS 1928).



Code	Size	Class	Packaging
513030MP	1/2" F x 16/2	IM	1 / 15
513032MP	1/2" F x 20/2	IM	1 / 15

MP 5725

Left wall terminal for horizontal chases.



Code	Size	Class	Packaging
513008MP	1/2" F x 16/2	IM	12 / 48
513010MP	1/2" F x 18/2	IM	12 / 48
513012MP	1/2" F x 20/2	IM	10 / 40

MP 5724

Right wall terminal for horizontal chases.



Code	Size	Class	Packaging
513009MP	1/2" F x 16/2	IM	12 / 48
513011MP	1/2" F x 18/2	IM	12 / 48
513013MP	1/2" F x 20/2	IM	12 / 48

MP 5764

Wall terminals for horizontal chases (kit with AS 1928).



Code	Size	Class	Packaging
513033MP	1/2" F x 16/2	IM	1 / 15
513034MP	1/2" F x 18/2	IM	1 / 15
513035MP	1/2" F x 20/2	IM	1 / 15

MP 5701

Plug.



Code	Size	Class	Packaging
510071MP	16/2	IM	40 / 160
510073MP	20/2	IM	40 / 160
510170MP	25/2,5	IM	35 / 140
510074MP	26/3	IM	35 / 140
510075MP	32/3	IM	20 / 80

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MP 5702

Straight fitting with copper chrome plated pipe.



Code	Size	Class	Packaging
510065MP	Ø15 x 16/2	IM	25 / 100
510090MP	Ø15 x 20/2	IM	25 / 100
510066MP	Ø18 x 20/2	IM	25 / 100
510091MP	Ø22 x 20/2	IM	20 / 80
510168MP	Ø22 x 25/2,5	IM	20 / 80
510067MP	Ø22 x 26/3	IM	20 / 80
510068MP	Ø28 x 32/3	IM	10 / 40

MP 5607

Straight fitting with FASTEC connection.



Code	Size	Class	Packaging
511115MP	FASTEC x 16/2	IM	40 / 160
511116MP	FASTEC x 16/2,25	IM	40 / 160
511117MP	FASTEC x 18/2	IM	40 / 160
511118MP	FASTEC x 20/2	IM	40 / 160
511119MP	FASTEC x 20/2,25	IM	40 / 160
511120MP	FASTEC x 20/2,5	IM	40 / 160
511121MP	FASTEC x 25/2,5	IM	30 / 120
511122MP	FASTEC x 26/3	IM	30 / 120

MP 5715

L fitting with chrome-plated copper pipe.



Code	Size	Height	Class	Packaging
511015MP	Ø15 x 16/2	165 mm	IM	100
511016MP	Ø15 x 16/2	345 mm	IM	60
511017MP	Ø15 x 16/2	1095 mm	IM	50
511025MP	Ø15 x 20/2	165 mm	IM	80
511026MP	Ø15 x 20/2	345 mm	IM	50
511027MP	Ø15 x 20/2	1095 mm	IM	50

MP 5716

T fitting with chrome-plated copper pipe.



Code	Size	Class	Packaging
512077MP	16/2 x Ø15 x 16/2	IM	25
512079MP	20/2 x Ø15 x 20/2	IM	25

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AR 08 MP

Spare bushes for MULTI PRESS.



Code	Size	Class	Packaging
502120MP	Ø16/2	IG	1 / 50
502121MP	Ø18/2	IG	1 / 50
502122MP	Ø20/2	IG	1 / 50
502123MP	Ø25/2,5	IG	1 / 35
502124MP	Ø26/3	IG	1 / 20
502125MP	Ø32/3	IG	1 / 15

AR 08 MPXL

Spare bushes for MULTI PRESS.



Code	Size	Class	Packaging
502126	Ø40/3,5	IG	1 / 10
502127	Ø50/4	IG	1 / 8
502128	Ø63/4,5	IG	1 / 5

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MULTI•PRESS•LEAK FITTINGS

MULTI PRESS LEAK is the 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).

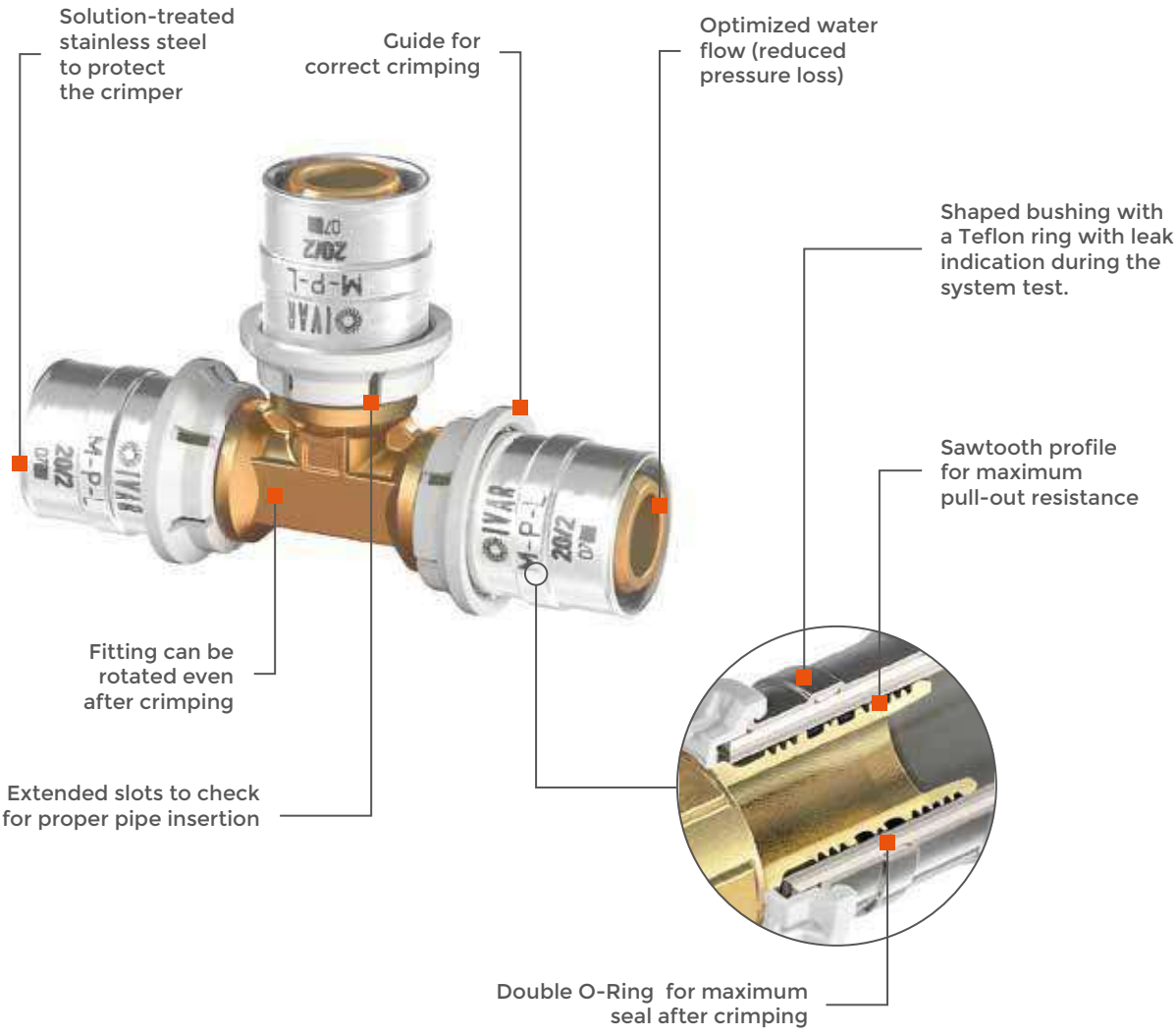
The absence of a seal if not crimped is a function particularly requested by the market to avoid problems and damage in the event that an installer forgets to crimp the fitting. A later installer will then be able to immediately identify any leaks and take remedial action by correctly crimping the fitting 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

- Body in CW617N brass
- Compatible with all TH - H/R - U - B/BE - F crimping profiles
- Complete range of figures
- Ø from 16 to 32 mm



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Ø (mm)		16	20	26	32
Thickness (mm)		2 2,25	2 2,25 2,5	3	3
	BE**	■	■	■	■
	B***	■	■	■	■
	F***	■	■	■	■
	R**	■	■	■	■
	H***	■	■	■	■
	TH*	■	■	■	■
	U*	■	■	-	■

* Rothenberger/Rems ** Rothenberger *** Rems

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MPL 5700 R

Straight fitting.



Code	Size	Class	Packaging
510008MPL	16/2 x 20/2	I3	40 / 160
510009MPL	16/2 x 26/3	I3	20 / 80
510024MPL	16/2 x 32/3	I3	15 / 60
510010MPL	20/2 x 26/3	I3	20 / 80
510023MPL	20/2 x 32/3	I3	15 / 60
510019MPL	26/3 x 32/3	I3	15 / 60

MPL 5700

Straight fitting.



Code	Size	Class	Packaging
510005MPL	16/2 x 16/2	I3	40 / 160
510006MPL	20/2 x 20/2	I3	30 / 120
510007MPL	26/3 x 26/3	I3	20 / 80
510020MPL	32/3 x 32/3	I3	15 / 60

MPL 5710

Angle fitting.



Code	Size	Class	Packaging
511009MPL	16/2 x 16/2	I3	30 / 120
511010MPL	20/2 x 20/2	I3	30 / 120
511011MPL	26/3 x 26/3	I3	15 / 60
511012MPL	32/3 x 32/3	I3	10 / 40

MPL 5704

45° fitting.



Code	Size	Class	Packaging
510099MPL	26/3 x 26/3	I3	15 / 60
510100MPL	32/3 x 32/3	I3	10 / 40

MPL 5720

Tee fitting.



Code	Size	Class	Packaging
512001MPL	16/2 x 16/2 x 16/2	I3	20 / 80
512002MPL	20/2 x 20/2 x 20/2	I3	16 / 64
512003MPL	26/3 x 26/3 x 26/3	I3	10 / 40
512020MPL	32/3 x 32/3 x 32/3	I3	6 / 24

MPL 5720 RLL

Tee fitting with reduced side connections.



Code	Size	Class	Packaging
512013MPL	16/2 x 20/2 x 16/2	I3	16 / 64
512014MPL	20/2 x 26/3 x 20/2	I3	12 / 48
512051MPL	20/2 x 32/3 x 20/2	I3	8 / 32
512019MPL	26/3 x 32/3 x 26/3	I3	8 / 32

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MPL 5720 RC



Tee fitting with reduced central connection.

Code	Size	Class	Packaging
512004MPL	20/2 x 16/2 x 20/2	I3	16 / 64
512005MPL	26/3 x 16/2 x 26/3	I3	12 / 48
512006MPL	26/3 x 20/2 x 26/3	I3	12 / 48
512015MPL	32/3 x 16/2 x 32/3	I3	8 / 32
512016MPL	32/3 x 20/2 x 32/3	I3	8 / 32
512018MPL	32/3 x 26/3 x 32/3	I3	8 / 32

MPL 5720 RCL



Tee fitting with reduced central and side connection.

Code	Size	Class	Packaging
512009MPL	16/2 x 16/2 x 20/2	I3	16 / 64
512012MPL	20/2 x 20/2 x 26/3	I3	12 / 48
512021MPL	20/2 x 20/2 x 32/3	I3	8 / 32
512017MPL	26/3 x 26/3 x 32/3	I3	8 / 32

MPL 5720 RL



Tee fitting with reduced side connection.

Code	Size	Class	Packaging
512007MPL	20/2 x 20/2 x 16/2	I3	16 / 64
512048MPL	26/3 x 26/3 x 16/2	I3	12 / 48
512008MPL	26/3 x 26/3 x 20/2	I3	12 / 48
512068MPL	32/3 x 32/3 x 16/2	I3	8 / 32
512052MPL	32/3 x 32/3 x 20/2	I3	8 / 32
512053MPL	32/3 x 32/3 x 26/3	I3	8 / 32

MPL 5720 RR



Tee fitting with double reduction connections.

Code	Size	Class	Packaging
512010MPL	26/3 x 16/2 x 20/2	I3	12 / 48
512011MPL	26/3 x 20/2 x 16/2	I3	12 / 48
512050MPL	32/3 x 20/2 x 26/3	I3	8 / 32
512024MPL	32/3 x 26/3 x 20/2	I3	8 / 32

MPL 5729



Built-in valve with press-fitting connection DN 15, chromed knob and plate.

Code	Size	Class	Packaging
510189MMPL	16/2 - 16/2	I3	3 / 12
510191MMPL	20/2 - 20/2	I3	3 / 12



Extension for built in valve AR 22 >>p. 105

MPL 5730



Built-in valve with press-fitting connection DN 15, chromed cap and plate.

Code	Size	Class	Packaging
510189CMPL	16/2 - 16/2	I3	3 / 12
510191CMPL	20/2 - 20/2	I3	3 / 12



Extension for built in valve AR 22 >>p. 105

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MPL 5608

Straight male fitting.



Code	Size	Class	Packaging
510084MPL	3/8" M x 16/2	I3	50 / 200
510001MPL	1/2" M x 16/2	I3	40 / 160
510105MPL	3/4" M x 16/2	I3	30 / 120
510002MPL	1/2" M x 20/2	I3	40 / 160
510003MPL	3/4" M x 20/2	I3	30 / 120
510004MPL	3/4" M x 26/3	I3	30 / 120
510044MPL	1" M x 26/3	I3	20 / 80
510021MPL	1" M x 32/3	I3	20 / 80
510106MPL	1"1/4 M x 32/3	I3	10 / 40

MPL 5613

Straight female fitting.



Code	Size	Class	Packaging
510011MPL	1/2" F x 16/2	I3	40 / 160
510109MPL	3/4" F x 16/2	I3	30 / 120
510012MPL	1/2" F x 20/2	I3	40 / 160
510013MPL	3/4" F x 20/2	I3	30 / 120
510014MPL	3/4" F x 26/3	I3	20 / 80
510047MPL	1" F x 26/3	I3	15 / 60
510022MPL	1" F x 32/3	I3	15 / 60

MPL 5711

Male angle fitting.



Code	Size	Class	Packaging
511001MPL	1/2" M x 16/2	I3	40 / 160
511002MPL	1/2" M x 20/2	I3	30 / 120
511003MPL	3/4" M x 20/2	I3	20 / 80
511004MPL	3/4" M x 26/3	I3	20 / 80
511113MPL	1" M x 26/3	I3	10 / 40
511013MPL	1" M x 32/3	I3	10 / 40

MPL 5712

Female angle fitting.



Code	Size	Class	Packaging
511005MPL	1/2" F x 16/2	I3	30 / 120
511006MPL	1/2" F x 20/2	I3	30 / 120
511007MPL	3/4" F x 20/2	I3	25 / 100
511008MPL	3/4" F x 26/3	I3	20 / 80
511114MPL	1" F x 26/3	I3	10 / 40
511014MPL	1" F x 32/3	I3	10 / 40

MPL 5721

Male tee fitting.



Code	Size	Class	Packaging
512029MPL	16/2 x 1/2" M x 16/2	I3	20 / 80
512031MPL	16/2 x 3/4" M x 16/2	I3	20 / 80
512030MPL	20/2 x 1/2" M x 20/2	I3	16 / 64
512032MPL	20/2 x 3/4" M x 20/2	I3	16 / 64
512067MPL	26/3 x 3/4" M x 26/3	I3	10 / 40

MPL 5722

Female tee fitting.



Code	Size	Class	Packaging
512022MPL	16/2 x 1/2" F x 16/2	I3	20 / 80
512028MPL	16/2 x 3/4" F x 16/2	I3	16 / 64
512027MPL	20/2 x 1/2" F x 20/2	I3	16 / 64
512023MPL	20/2 x 3/4" F x 20/2	I3	16 / 64
512047MPL	26/3 x 1/2" F x 20/2	I3	12 / 48
512046MPL	26/3 x 1/2" F x 26/3	I3	12 / 48
512042MPL	26/3 x 3/4" F x 26/3	I3	10 / 40
512104MPL	26/3 x 1" F x 26/3	I3	5 / 10
512043MPL	32/3 x 3/4" F x 32/3	I3	10 / 40
512044MPL	32/3 x 1" F x 32/3	I3	10 / 40

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MPL 5703

Straight fitting with flat seal and rotating nut.



Code	Size	Class	Packaging
510110MPL	3/8" F x 16/2	I3	40 / 160
510085MPL	1/2" F x 16/2	I3	40 / 160
510076MPL	3/4" F x 16/2	I3	30 / 120
510078MPL	3/4" F x 20/2	I3	30 / 120
510087MPL	1/2" F x 20/2	I3	30 / 120
510088MPL	3/4" F x 26/3	I3	30 / 120
510079MPL	1" F x 26/3	I3	25 / 100
510089MPL	1" F x 32/3	I3	20 / 80
510080MPL	1"1/4 F x 32/3	I3	15 / 60

MPL 5705

Straight fitting with rotating nut.



Code	Size	Class	Packaging
510017MPL	EUROK x 16/2	I3	30 / 120
510018MPL	EUROK x 20/2	I3	30 / 120

MPL 5712 L

Female angle fitting long.



Code	Size	Class	Packaging
511029MPL	1/2" F x 16/2	I3	25 / 100
511103MPL	1/2" F x 20/2	I3	25 / 100

MPL 5717

Angle fitting with flat seal and rotating nut.



Code	Size	Class	Packaging
512033MPL	1/2" F x 16/2	I3	30 / 120
512034MPL	3/4" F x 16/2	I3	30 / 120

MPL 5609

Straight male soft seal fitting.



Code	Size	Class	Packaging
510048MPL	1/2" M O-ring x 16/2	I3	40 / 160
510050MPL	1/2" M O-ring x 20/2	I3	40 / 160

MPL 5607

Straight fitting with FASTEC connection.



Code	Size	Class	Packaging
511115MPL	FASTEC x 16/2	I3	40 / 160
511118MPL	FASTEC x 20/2	I3	40 / 160
511122MPL	FASTEC x 26/3	I3	30 / 120

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MPL 5780

Double wall fitting.





FOCUS: U-fittings >>p. 81

Code	Size	Class	Packaging
510062MPL	1/2" F x 16/2	I3	8 / 32
510064MPL	1/2" F x 20/2	I3	8 / 32

MPL 5781

Double wall fitting 90°.





FOCUS: U-fittings >>p. 81

Code	Size	Class	Packaging
511106MPL	1/2" F x 16/2	I3	8 / 32
511108MPL	1/2" F x 20/2	I3	8 / 32

MPL 5760

Wall fitting.



Code	Size	Height	Class	Packaging
513001CMPL	1/2" F x 16/2	40 mm	I3	15 / 60
513002CMPL	1/2" F x 20/2	40 mm	I3	15 / 60
513001MPL	1/2" F x 16/2	52 mm	I3	15 / 60
513002MPL	1/2" F x 20/2	52 mm	I3	15 / 60
513004MPL	3/4" F x 26/3	57 mm	I3	10 / 40
513003MPL	3/4" F x 20/2	57 mm	I3	10 / 40
513001LMPL	1/2" F x 16/2	77 mm	I3	10 / 40
513002LMPL	1/2" F x 20/2	77 mm	I3	10 / 40

MPL 5728

Double crossed T fitting for skirting board plants.



Code	Size	Class	Packaging
512080MPL	16/2-16/2 x 16/2-16/2 x 16/2-16/2	I3	3 / 12
512096MPL	16/2-16/2 x 16/2-16/2 x 20/2-20/2	I3	3 / 12
512084MPL	16/2-16/2 x 20/2-20/2 x 16/2-16/2	I3	3 / 12
512097MPL	16/2-16/2 x 20/2-20/2 x 20/2-20/2	I3	3 / 12
512083MPL	20/2-20/2 x 16/2-16/2 x 16/2-16/2	I3	3 / 12
512082MPL	20/2-20/2 x 16/2-16/2 x 20/2-20/2	I3	3 / 12
512086MPL	20/2-20/2 x 20/2-20/2 x 16/2-16/2	I3	3 / 12
512085MPL	20/2-20/2 x 20/2-20/2 x 20/2-20/2	I3	3 / 12

MPL 5761

Wall fittings (kit with AS 1929).



Code	Size	Height	Class	Packaging
513024CMPL	1/2" F x 16/2	40 mm	I3	1 / 15
513025CMPL	1/2" F x 20/2	40 mm	I3	1 / 15
513024MPL	1/2" F x 16/2	52 mm	I3	1 / 15
513025MPL	1/2" F x 20/2	52 mm	I3	1 / 15
513024LMPL	1/2" F x 16/2	77 mm	I3	1 / 15
513025LMPL	1/2" F x 20/2	77 mm	I3	1 / 15

MPL 5762

Wall fittings (kit with AS 1927).



Code	Size	Height	Class	Packaging
513027CMPL	1/2" F x 16/2	40 mm	I3	1 / 15
513029CMPL	1/2" F x 20/2	40 mm	I3	1 / 15
513027MPL	1/2" F x 16/2	52 mm	I3	1 / 15
513029MPL	1/2" F x 20/2	52 mm	I3	1 / 15
513027LMPL	1/2" F x 16/2	77 mm	I3	1 / 12
513029LMPL	1/2" F x 20/2	77 mm	I3	1 / 15

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MPL 5725

Left wall terminal for horizontal chases.



Code	Size	Class	Packaging
513008MPL	1/2" F x 16/2	I3	12 / 48
513012MPL	1/2" F x 20/2	I3	10 / 40

MPL 5724

Right wall terminal for horizontal chases.



Code	Size	Class	Packaging
513009MPL	1/2" F x 16/2	I3	12 / 48
513013MPL	1/2" F x 20/2	I3	12 / 48

MPL 5764

Wall terminals for horizontal chases (kit with AS 1928).



Code	Size	Class	Packaging
513035MPL	1/2" F x 20/2	I3	1 / 15

MPL 5763

Wall fittings for horizontal chases (kit with AS 1928).



Code	Size	Class	Packaging
513030MPL	1/2" F x 16/2	I3	1 / 15
513032MPL	1/2" F x 20/2	I3	1 / 15

MPL 5702

Straight fitting with copper chrome plated pipe.



Code	Size	Class	Packaging
510065MPL	Ø15 x 16/2	I3	25 / 100
510090MPL	Ø15 x 20/2	I3	25 / 100
510066MPL	Ø18 x 20/2	I3	25 / 100
510091MPL	Ø22 x 20/2	I3	20 / 80
510067MPL	Ø22 x 26/3	I3	20 / 80
510068MPL	Ø28 x 32/3	I3	10 / 40

MPL 5715

L fitting with chrome-plated copper pipe.



Code	Size	Height	Class	Packaging
511015MPL	Ø15 x 16/2	165 mm	I3	100
511016MPL	Ø15 x 16/2	345 mm	I3	60
511017MPL	Ø15 x 16/2	1095 mm	I3	50
511025MPL	Ø15 x 20/2	165 mm	I3	80
511026MPL	Ø15 x 20/2	345 mm	I3	50
511027MPL	Ø15 x 20/2	1095 mm	I3	50

MPL 5716

T fitting with chrome-plated copper pipe.



Code	Size	Class	Packaging
512079MPL	20/2 x Ø15 x 20/2	I3	25

MPL 5701

Plug.



Code	Size	Class	Packaging
510071MPL	16/2	I3	40 / 160
510073MPL	20/2	I3	40 / 160
510074MPL	26/3	I3	35 / 140
510075MPL	32/3	I3	20 / 80

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AR 08 MPL

Spare bushes for MULTI PRESS LEAK.



Code	Size	Class	Packaging
502120MPL	Ø16/2	IG	1 / 50
502122MPL	Ø20/2	IG	1 / 50
502124MPL	Ø26/3	IG	1 / 35
502125MPL	Ø32/3	IG	1 / 15

MPL 5610 B



Under-floor distribution box with 90° press-fitting.

Code	Size	Color	Class	Packaging
500304MPL	1/2" F x 16/2		I3	8 / 96
500306MPL	1/2" F x 20/2		I3	8 / 96

MPL 5610 R



Under-floor distribution box with 90° press-fitting.

Code	Size	Color	Class	Packaging
500304RMPL	1/2" F x 16/2		I3	8 / 96
500306RMPL	1/2" F x 20/2		I3	8 / 96



FOCUS: fitting with under-floor distribution box >> p. 84



AS 1925 >> p. 106



RR 702 >>p. 106

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PLASTIC•MULTI•PRESS FITTINGS

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.

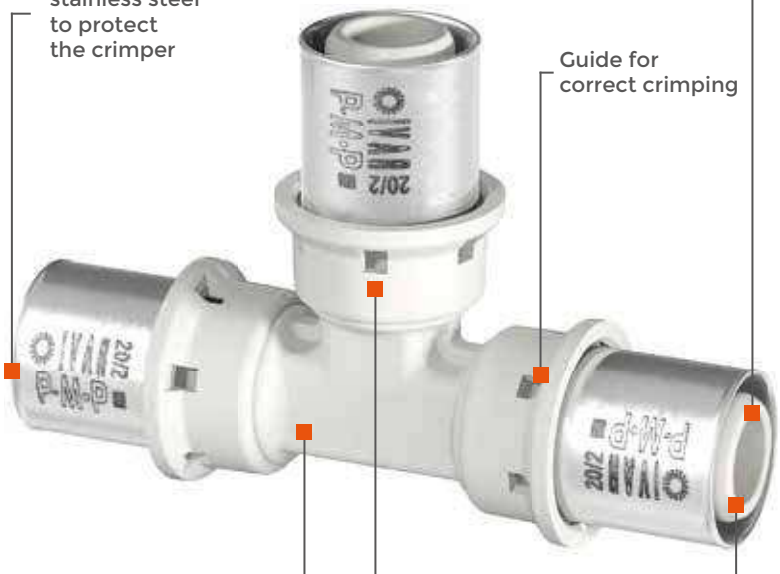
The geometry of the fitting, which was designed to provide optimal coupling between pipe and fitting after pressing and the windows on the bushing flange used to verify that the pipe and two peroxide EPDM O-rings on each end have been inserted properly are all details that help to ensure the applicability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

- Compatible with all TH - H/R - U - B/BE - F crimping profiles
- Maximum corrosion resistance
- Ø from 16 to 32 mm



Ø (mm)		16	20	25	26	32
Thickness (mm)		2	2	2,5	3	3
	BE**	■	■	-	■	■
	B***	■	■	-	■	■
	F***	■	■	-	■	■
	R**	■	■	■	■	■
	H***	■	■	■	■	■
	TH*	■	■	■	■	■
	U*	■	■	■	-	■

* Rothenberger/Rems ** Rothenberger *** Rems

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PMP 5700 R

Straight reduced fitting.



Code	Size	Class	Packaging
510008PMP	16/2 x 20/2	II	40 / 320
510135PMP	16/2 x 25/2,5	II	16 / 128
510009PMP	16/2 x 26/3	II	16 / 128
510137PMP	20/2 x 25/2,5	II	16 / 128
510010PMP	20/2 x 26/3	II	16 / 128
510023PMP	20/2 x 32/3	II	12 / 96
510138PMP	25/2,5 x 32/3	II	12 / 96
510019PMP	26/3 x 32/3	II	12 / 96

PMP 5700

Straight fitting.



Code	Size	Class	Packaging
510005PMP	16/2 x 16/2	II	40 / 320
510006PMP	20/2 x 20/2	II	24 / 192
510134PMP	25/2,5 x 25/2,5	II	16 / 128
510007PMP	26/3 x 26/3	II	16 / 128
510020PMP	32/3 x 32/3	II	12 / 96

PMP 5710

Angle fitting.



Code	Size	Class	Packaging
511009PMP	16/2 x 16/2	II	30 / 240
511010PMP	20/2 x 20/2	II	24 / 192
510140PMP	25/2,5 x 25/2,5	II	12 / 96
511011PMP	26/3 x 26/3	II	12 / 96
511012PMP	32/3 x 32/3	II	10 / 80

PMP 5720

Tee fitting.



Code	Size	Class	Packaging
512001PMP	16/2 x 16/2 x 16/2	II	20 / 160
512002PMP	20/2 x 20/2 x 20/2	II	14 / 112
510143PMP	25/2,5 x 25/2,5 x 25/2,5	II	8 / 64
512003PMP	26/3 x 26/3 x 26/3	II	8 / 64
512020PMP	32/3 x 32/3 x 32/3	II	6 / 48

PMP 5720 RC

Tee fitting with reduced central connection.



Code	Size	Class	Packaging
512004PMP	20/2 x 16/2 x 20/2	II	14 / 112
510144PMP	25/2,5 x 16/2 x 25/2,5	II	8 / 64
510146PMP	25/2,5 x 20/2 x 25/2,5	II	8 / 64
512005PMP	26/3 x 16/2 x 26/3	II	8 / 64
512006PMP	26/3 x 20/2 x 26/3	II	8 / 64
512015PMP	32/3 x 16/2 x 32/3	II	6 / 48
512016PMP	32/3 x 20/2 x 32/3	II	6 / 48
510174PMP	32/3 x 25/2,5 x 32/3	II	6 / 48
512018PMP	32/3 x 26/3 x 32/3	II	6 / 48

PMP 5720 RL

Tee fitting with reduced side connection.



Code	Size	Class	Packaging
512007PMP	20/2 x 20/2 x 16/2	II	14 / 112
510148PMP	25/2,5 x 25/2,5 x 16/2	II	8 / 64
510150PMP	25/2,5 x 25/2,5 x 20/2	II	8 / 64
512048PMP	26/3 x 26/3 x 16/2	II	8 / 64
512008PMP	26/3 x 26/3 x 20/2	II	8 / 64
512052PMP	32/3 x 32/3 x 20/2	II	6 / 48
510151PMP	32/3 x 32/3 x 25/2,5	II	6 / 48
512053PMP	32/3 x 32/3 x 26/3	II	6 / 48

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PMP 5720 RLL

Tee fitting with reduced side connections.



Code	Size	Class	Packaging
512013PMP	16/2 x 20/2 x 16/2	II	14 / 112
510147PMP	20/2 x 25/2,5 x 20/2	II	8 / 64
512014PMP	20/2 x 26/3 x 20/2	II	8 / 64
512051PMP	20/2 x 32/3 x 20/2	II	6 / 48
510179PMP	25/2,5 x 32/3 x 25/2,5	II	6 / 48
512019PMP	26/3 x 32/3 x 26/3	II	6 / 48

PMP 5720 RCL

Tee fitting with reduced central and side connection.



Code	Size	Class	Packaging
512009PMP	16/2 x 16/2 x 20/2	II	14 / 112
510154PMP	20/2 x 20/2 x 25/2,5	II	8 / 64
512012PMP	20/2 x 20/2 x 26/3	II	8 / 64
512021PMP	20/2 x 20/2 x 32/3	II	6 / 48
510155PMP	25/2,5 x 25/2,5 x 32/3	II	6 / 48
512017PMP	26/3 x 26/3 x 32/3	II	6 / 48

PMP 5720 RR

Tee fitting with double reduction connections.



Code	Size	Class	Packaging
510157PMP	25/2,5 x 16/2 x 20/2	II	8 / 64
510158PMP	25/2,5 x 20/2 x 16/2	II	8 / 64
512010PMP	26/3 x 16/2 x 20/2	II	8 / 64
512011PMP	26/3 x 20/2 x 16/2	II	8 / 64
510159PMP	32/3 x 20/2 x 25/2,5	II	6 / 48
512050PMP	32/3 x 20/2 x 26/3	II	6 / 48
512024PMP	32/3 x 26/3 x 20/2	II	6 / 48

AR 08 PMP

Spare bushes for PLASTIC MULTI PRESS.



Code	Size	Class	Packaging
502120PMP	16/2	IG	1 / 50
502122PMP	20/2	IG	1 / 50
502123PMP	25/2,5	IG	1 / 50
502124PMP	26/3	IG	1 / 50
502125PMP	32/3	IG	1 / 50

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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 connections can mount all the screw fittings of the 4000 series (TR, TP or TA) depending on the pipe used.

TR
(Copper pipe)



TA
(Multilayer pipe)



TP
(Polyethylene pipe)

RR 4700

Straight male - male fitting.



Code	Size	Color	Class	Packaging
500377	EUROK x EUROK		KA	50 / 400
500378	EUROK x EUROK		KA	40 / 320

RR 4608

Straight male - male fitting.



Code	Size	Color	Class	Packaging
500059	1/2" M x EUROK		KA	50 / 200
500176	3/4" M x EUROK		KA	50 / 200
500077	1/2" M x EUROK		KA	50 / 200
500177	3/4" M x EUROK		KA	50 / 200

RR 4710

Male - male angle fitting.



Code	Size	Color	Class	Packaging
500097	EUROK x EUROK		KA	40 / 160
500098	EUROK x EUROK		KA	40 / 160

RR 4711

Male - male angle fitting.



Code	Size	Color	Class	Packaging
500099	1/2" M x EUROK		KA	40 / 160
500193	3/4" M x EUROK		KA	30 / 240
500118	1/2" M x EUROK		KA	40 / 320
500194	3/4" M x EUROK		KA	30 / 240

RR 4720

Male - male - male tee fitting.



Code	Size	Color	Class	Packaging
500135	EUROK x EUROK x EUROK		KA	25 / 200
500136	EUROK x EUROK x EUROK		KA	25 / 200

RR 4721

Male - male - male tee fitting.



Code	Size	Color	Class	Packaging
500137	EUROK x 1/2" M x EUROK		KA	30 / 240
500199	EUROK x 3/4" M x EUROK		KA	30 / 240
500138	EUROK x 1/2" M x EUROK		KA	30 / 240
500181	EUROK x 3/4" M x EUROK		KA	30 / 240

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RR 4613

Straight male-female fitting.



Code	Size	Color	Class	Packaging
500080	1/2" F x EUROK		KA	50 / 200
500174	3/4" F x EUROK		KA	40 / 160
500081	1/2" F x EUROK		KA	50 / 200
500175	3/4" F x EUROK		KA	40 / 160

RR 703

Male nipple - male.



Code	Size	Color	Class	Packaging
501131	1/2" M x 1/2" M		KA	100 / 400
501132	3/4" M x 3/4" M		KA	50 / 200
501419	1"1/2 M x 1"1/2 M		KA	20 / 80
501131N	1/2" M x 1/2" M		KA	100 / 400
501132N	3/4" M x 3/4" M		KA	50 / 400
501419N	1"1/2 M x 1"1/2 M		KA	20 / 80

RR 4712

Male - female angle fitting.



Code	Size	Color	Class	Packaging
500119	1/2" F x EUROK		KA	40 / 160
500195	3/4" F x EUROK		KA	25 / 200
500120	1/2" F x EUROK		KA	40 / 320
500196	3/4" F x EUROK		KA	25 / 200

AC 4604

Straight male-male fitting.



Code	Size	Color	Class	Packaging
500667	3/4" M O-ring x EUROK		KA	50 / 400
500667N	3/4" M O-ring x EUROK		KA	50 / 400

RR 4722

Male - female - male tee fitting.



Code	Size	Color	Class	Packaging
500139	EUROK x 1/2" F x EUROK		KA	30 / 240
500197	EUROK x 3/4" F x EUROK		KA	25 / 200
500140	EUROK x 1/2" F x EUROK		KA	30 / 240
500198	EUROK x 3/4" F x EUROK		KA	25 / 200

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RF 800

Female-female sleeve.



Code	Size	Color	Class	Packaging
506610	3/8" F x 3/8" F		KA	100 / 400
501094	1/2" F x 1/2" F		KA	50 / 400
501095	3/4" F x 3/4" F		KA	35 / 280
501096	1" F x 1" F		KA	25 / 200
506611	1"1/4 F x 1"1/4 F		KA	20 / 80
506612	1"1/2 F x 1"1/2 F		KA	15 / 120
506613	2" F x 2" F		KA	1
506610N	3/8" F x 3/8" F		KA	100 / 400
500915	1/2" F x 1/2" F		KA	50 / 400
500916	3/4" F x 3/4" F		KA	35 / 280
500917	1" F x 1" F		KA	25 / 100
506611N	1"1/4 F x 1"1/4 F		KA	20 / 80
506612N	1"1/2 F x 1"1/2 F		KA	15 / 60
506613N	2" F x 2" F		KA	1

RF 810

Female - female angle fitting.



Code	Size	Color	Class	Packaging
506614	3/8" F x 3/8" F		KA	1
501063	1/2" F x 1/2" F		KA	40 / 320
501064	3/4" F x 3/4" F		KA	20 / 160
501065	1" F x 1" F		KA	10 / 80
506615	1"1/4 F x 1"1/4 F		KA	10 / 80
506616	1"1/2 F x 1"1/2 F		KA	5 / 40
506617	2" F x 2" F		KA	1
506614N	3/8" F x 3/8" F		KA	1
501107	1/2" F x 1/2" F		KA	40 / 320
501307	3/4" F x 3/4" F		KA	20 / 160
500672	1" F x 1" F		KA	10 / 80
506615N	1"1/4 F x 1"1/4 F		KA	10 / 80
506616N	1"1/2 F x 1"1/2 F		KA	5 / 40
506617N	2" F x 2" F		KA	1

RF 811

Female - male L fitting.



Code	Size	Color	Class	Packaging
501078	1/2" F x 1/2" M		KA	40 / 320
501079	3/4" F x 3/4" M		KA	20 / 160
501082	1" F x 1" M		KA	10 / 80
506619	1"1/4 F x 1"1/4 M		KA	6 / 48
506620	1"1/2 F x 1"1/2 M		KA	6 / 48
506621	2" F x 2" M		KA	1
501023	1/2" F x 1/2" M		KA	40 / 160
501024	3/4" F x 3/4" M		KA	20 / 160
501058	1" F x 1" M		KA	10 / 80
506619N	1"1/4 F x 1"1/4 M		KA	6 / 48
506620N	1"1/2 F x 1"1/2 M		KA	6 / 48
506621N	2" F x 2" M		KA	1

RF 820

Female tee fitting.



Code	Size	Color	Class	Packaging
506622	3/8" F x 3/8" F x 3/8" F		KA	1
501066	1/2" F x 1/2" F x 1/2" F		KA	25 / 200
501067	3/4" F x 3/4" F x 3/4" F		KA	15 / 120
501068	1" F x 1" F x 1" F		KA	10 / 80
506623	1"1/4 F x 1"1/4 F x 1"1/4 F		KA	5 / 40
506624	1"1/2 F x 1"1/2 F x 1"1/2 F		KA	5 / 40
506622N	3/8" F x 3/8" F x 3/8" F		KA	1
501041	1/2" F x 1/2" F x 1/2" F		KA	25 / 200
501042	3/4" F x 3/4" F x 3/4" F		KA	15 / 120
501043	1" F x 1" F x 1" F		KA	10 / 80
506623N	1"1/4 F x 1"1/4 F x 1"1/4 F		KA	5 / 40
506624N	1"1/2 F x 1"1/2 F x 1"1/2 F		KA	5 / 40

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PRO-FIX 5732 RM



Universal plasterboard fixing kit complete with:
- 2 pcs >> female angle fittings with EUROK connection;
- 1 pc >> stainless steel fixing plate;
- 8 pcs >> M8 expansion plugs with screws;
- 1 pc >> pre-cut template on the packaging box;
- 2 pcs >> ring nuts;
- 2 pcs >> caps for installation phase.

Code	Size	Class	Packaging
520532	1/2" F x EUROK	KA	1 / 4



FOCUS: Adjustable wall fittings for plasterboard >>p. 82

RM 4760



Wall fitting.

Code	Size	Color	Class	Packaging
500594	1/2" F x EUROK		KA	25 / 200
500307	3/4" F x EUROK		KA	20 / 80

RM 780



Double female wall fitting.



FOCUS: Double wall fittings >>p. 81

Code	Size	Color	Class	Packaging
500401	1/2" F x 1/2" F		KA	10 / 40



AS 1929 >> p. 106



AS 1927 >>p. 106

RM 4770



Double wall fitting.



FOCUS: Double wall fittings >>p. 81

Code	Size	Color	Class	Packaging
500405	1/2" F x EUROK		KA	10 / 80

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ACCESSORIES AND SPARE PARTS FOR FITTINGS

AR 28

Extension for built in valve MP 5738 series.



Code	Size	Model	Class	Packaging
502110	+25 mm	MP 5738	IM	20 / 80

AR 27

Kit consisting of chromed-plated knob and plate for built-in valve with press-fitting connections series MP 5738.



Code	Model	Class	Packaging
502109	MP 5738	IM	1

AR 26

Kit consisting of chromed-plated lever and plate for built-in valve with press-fitting connections series MP 5738.



Code	Model	Class	Packaging
502108	MP 5738	IM	10 / 40

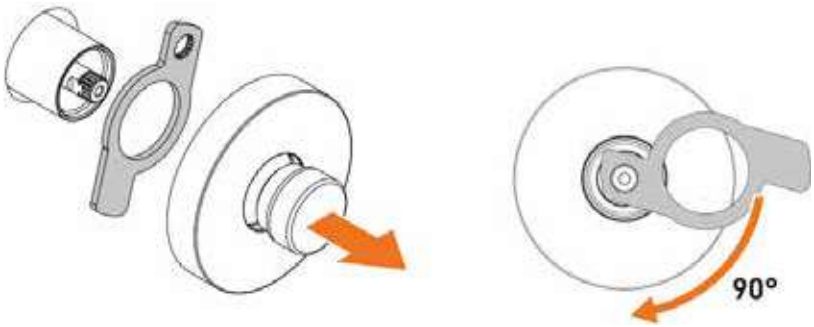
AR 25

Kit consisting of chromed-plated threaded cap and plate for built-in valve with press-fitting connections series MP 5738.



Code	Model	Class	Packaging
502107	MP 5738	IM	10 / 40

FOCUS: AR 25 retractable key for tap opening/closing



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AR 22

Extension for built in valve, compatible with MP/MPL 5729-5730 and IS-BOX manifolds.



Code	Size	Class	Packaging
550199	+13 mm | DN 15	IG	50 / 400

AR 21

Headwork for built in valve series MP/MPL 5729-5730.



Code	Size	Class	Packaging
550196	DN 15	IG	20 / 160

AR 23

Kit chromed knob and plate for built-in valve series MP/MPL 5729-5730 with press-fitting connection DN 15.



Code	Model	Class	Packaging
550198	MP/MPL 5729-5730	IG	10 / 80

AR 24

Kit chromed cap and plate for built-in valve series MP/MPL 5729-5730 with press-fitting connection DN 15.



Code	Model	Class	Packaging
550197	MP/MPL 5729-5730	IG	10 / 80

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RR 702

Chrome-plated copper connection pipe with soft seal for concealed distribution boxes.



Code	Size	Color	Class	Packaging
520003	Ø15 x 1/2" M - 108 mm		JC	35 / 280
520001	Ø15 x 1/2" M - 175 mm		JC	30 / 240

AS 1925

Divisible template for under-floor distribution boxes MP/MPL 5610 - MP 5767 - SS 1711.



Code	Size	Class	Packaging
501011	MP 5610 - SS 1711	JC	60

AS 1928

Wall fitting hanger for horizontal chases.



Code	Size	Class	Packaging
510037	Distance 100 / 153 mm	IG	2 / 30

AS 1927

Bracket for wall fitting.



Code	Size	Class	Packaging
510000	Distance 100 / 153 mm	JC	2 / 50

AS 1929

Bracket for wall fitting.



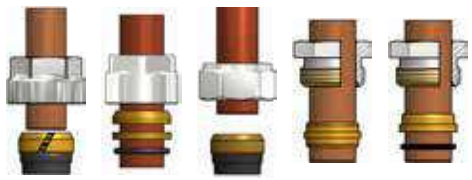
Code	Size	Class	Packaging
500574	Distance 153 mm	JC	1 / 100

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SCREW FITTINGS

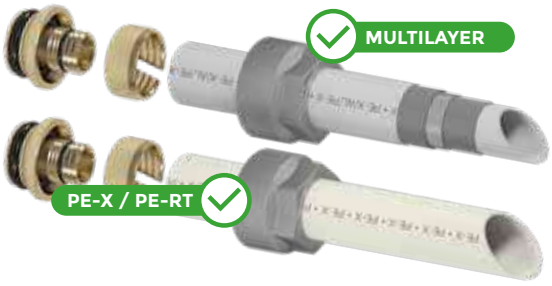
The range of IVAR screw fittings is extremely complete, with connections for different types of pipes such as copper (TR), multilayer (TA) and polyethylene (TP).
The fittings are compatible with the Eurokonus standard and each type has several variants depending on the outside diameter and thickness of the pipe.
The offer is completed with pre-assembled solutions (RR, RA, RP) with male or female connection on straight or elbow terminals

T = Max. tightening torque

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
				

FOCUS: Screw fittings for both multilayer and PEX pipe

1 fittings, 2 types of **pipe**



Pipe calibration and chamfering **not needed**



Larger internal bore and
reduced pressure drops



No corrosion
due to stray currents



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TR 4430

EUROK fitting for copper and mild steel pipe.



Code	Size	Color	Class	Packaging
500998	EUROK x 10/1		JA	40 / 320
500157	EUROK x 12/1		JA	40 / 320
500024	EUROK x 14/1		JA	40 / 320
500025	EUROK x 15/1		JA	40 / 320
500026	EUROK x 16/1		JA	40 / 320

TR 4430-18

EUROK fitting for copper and mild steel pipe.



Code	Size	Color	Class	Packaging
500417	EUROK x 18/1		JA	40 / 320

TP 4410

EUROK fitting for polyethylene pipe.



Code	Size	Color	Class	Packaging
500590	EUROK x 12/1		JA	40 / 320
520041	EUROK x 12/2		JA	40 / 320
500679	EUROK x 14/2		JA	40 / 320
500148	EUROK x 15/1,7		JA	40 / 320
500769	EUROK x 15/2,5		JA	40 / 320
500591	EUROK x 16/1,5		JA	40 / 320
500680	EUROK x 16/2		JA	40 / 320
500681	EUROK x 16/2,2		JA	40 / 320
500682	EUROK x 17/2		JA	40 / 320
500650	EUROK x 18/2		JA	40 / 320
506020	EUROK x 18/2,5		JA	40 / 320
500651	EUROK x 20/2		JA	40 / 320
500649	EUROK x 20/2,8		JA	40 / 320
506200	EUROK x 20/3,4		JA	40 / 320
500753	EUROK x 21/2,5		JA	40 / 320

TA 4420

EUROK fitting for multilayer and polyethylene pipe.



Code	Size	Color	Class	Packaging
506061	EUROK x 12/1,8		JA	40 / 320
500683	EUROK x 14/2		JA	40 / 320
500400	EUROK x 15/1,5		JA	40 / 320
500684	EUROK x 16/2		JA	40 / 320
500579	EUROK x 16/2,25		JA	40 / 320
506040	EUROK x 16,2/2,6		JA	40 / 160
500012	EUROK x 17/2		JA	40 / 320
500685	EUROK x 18/2		JA	40 / 320
500754	EUROK x 18/2,5		JA	40 / 320
500914	EUROK x 20/2		JA	40 / 320
500009	EUROK x 20/2,25		JA	40 / 320
501010	EUROK x 20/2,5		JA	40 / 320
506295	EUROK x 20/2,9 (for multilayer pipe only)		JA	40 / 320

TP 4410 HK

EUROK fitting for polyethylene pipe.



Code	Size	Color	Class	Packaging
TFEK10-1	EUROK x 10/1,3		JA	10 / 200

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TR 430 P

1/2" F fitting for copper and mild steel pipe with NBR bushing.



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

TR 430

M24 fitting for copper and mild steel pipe.



Code	Size	Color	Class	Packaging
500938	M24x1,5 x 10/1		JA	50 / 400
500141	M24x1,5 x 12/1		JA	50 / 400
500014	M24x1,5 x 14/1		JA	50 / 400
500007	M24x1,5 x 15/1		JA	50 / 400
500016	M24x1,5 x 16/1		JA	50 / 400

TP 410 P

1/2" F fitting for polyethylene pipe.



Code	Size	Color	Class	Packaging
506268	1/2" F x 12/1,1		JA	50 / 200
506269	1/2" F x 12/2		JA	50 / 200
506272	1/2" F x 15/2,5		JA	50 / 200
506273	1/2" F x 16/1,5		JA	50 / 200
506275	1/2" F x 16/2,2		JA	50 / 200

TP 410

M24 fitting for polyethylene pipe.



Code	Size	Color	Class	Packaging
501056	M24x1,5 x 12/1		JA	50 / 400
501032	M24x1,5 x 14/2		JA	50 / 400
501022	M24x1,5 x 16/1,5		JA	50 / 400
501034	M24x1,5 x 16/2		JA	50 / 400
501035	M24x1,5 x 16/2,2		JA	50 / 400
501048	M24x1,5 x 17/2		JA	50 / 400
501037	M24x1,5 x 18/2		JA	50 / 400

TA 420 P

1/2" F fitting for multilayer and polyethylene pipe.



Code	Size	Color	Class	Packaging
506265	1/2" F x 14/2 (for multilayer pipe only)		JA	50 / 400
500759	1/2" F x 16/2		JA	40 / 320
506267	1/2" F x 16/2,25 (for multilayer pipe only)		JA	50 / 400

TA 420

M24 fitting for multilayer and polyethylene pipe.



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

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TR 401



Fitting for copper and mild steel pipe with annealed ogive.

Code	Size	Color	Class	Packaging
501047	G 1/2" x 15/1		JA	100 / 800

TR 402



Fitting for copper and mild steel with ogive and o-ring.

Code	Size	Color	Class	Packaging
501009	G 1/2" x 15/1		JA	100 / 800

RR 781 N



Fitting for copper and mild steel pipe EUROK x 1/2" M.

Code	Size	Color	Class	Packaging
570051N	1/2" M x 10/1		LA	50 / 200
570053N	1/2" M x 12/1		LA	50 / 50
570054N	1/2" M x 14/1		LA	50 / 200
570055N	1/2" M x 15/1		LA	40 / 160
570056N	1/2" M x 16/1		LA	50 / 200
570057N	1/2" M x 18/1		LA	50 / 200

RA 761 N



Fitting for multilayer and polyethylene pipe EUROK x 1/2" M.

Code	Size	Color	Class	Packaging
570002N	1/2" M x 16/2		LA	50 / 200
570005N	1/2" M x 18/2		LA	50 / 200
570007N	1/2" M x 20/2		LA	50 / 200

RA 761



Compression straight male fitting for multilayer pipe.

Code	Size	Color	Class	Packaging
500043	3/4" M x 20/2		LA	20 / 160
501361	3/4" M x 25/2,5		LA	25 / 100
501084	3/4" M x 26/3		LA	20 / 80
506489	1" M x 25/2,5		LA	15 / 60
506057	1" M x 26/3		LA	15 / 60
500203	1" M x 32/3		LA	10 / 40
500043N	3/4" M x 20/2		LA	25 / 100
501361N	3/4" M x 25/2,5		LA	25 / 100
501084N	3/4" M x 26/3		LA	25 / 100
506489N	1" M x 25/2,5		LA	15 / 60
506057N	1" M x 26/3		LA	15 / 60
500203N	1" M x 32/3		LA	10 / 40

RP 731 N



Fitting for polyethylene pipe EUROK x 1/2" M.

Code	Size	Color	Class	Packaging
570020N	1/2" M x 12/1		LA	50 / 200
570021N	1/2" M x 12/2		LA	50 / 200
570022N	1/2" M x 14/2		LA	50 / 200
570023N	1/2 M x 15/1,7		LA	50 / 200
570024N	1/2" M x 15/2,5		LA	50 / 200
570025N	1/2" M x 16/1,5		LA	50 / 200
570026N	1/2" M x 16/2		LA	50 / 200
570027N	1/2" M x 16/2,2		LA	50 / 200
570028N	1/2" M x 17/2		LA	50 / 200
570030N	1/2" M x 18/2		LA	50 / 200
570031N	1/2" M x 20/2		LA	50 / 200
570032N	1/2" M x 20/2,8		LA	50 / 200
570033N	1/2" M x 21/2,5		LA	50 / 200

RP 731



Compression straight male fitting for polyethylene pipe.

Code	Size	Color	Class	Packaging
506209	3/4" M x 20/2		LA	25 / 100
501051	3/4" M x 20/2,8		LA	25 / 100
501054	3/4"M x 25/2,3		LA	20 / 80
550042	3/4" M x 25/2,5		LA	25 / 100
501052	3/4" M x 25/3,5		LA	20 / 80
506492	1" M x 25/2,3		LA	20 / 80
506209N	3/4" M x 20/2,3		LA	25 / 100
501051N	3/4" M x 20/2,8		LA	25 / 100
501054N	3/4" M x 25/2,3		LA	25 / 100
550042N	3/4" M x 25/2,5		LA	25 / 100
501052N	3/4" M x 25/3,5		LA	20 / 80
506492N	1" M x 25/2,3		LA	20 / 80

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RA 762



Compression straight female fitting for multilayer pipe.

Code	Size	Color	Class	Packaging
506484	3/4" F x 25/2,5		LA	20 / 80
506455	3/4" F x 26/3		LA	20 / 80
506456	3/4" F x 32/3		LA	10 / 40
506483	1" F x 25/2,5		LA	15 / 60
506450	1" F x 26/3		LA	15 / 60
506451	1" F x 32/3		LA	15 / 60
506484N	3/4" F x 25/2,5		LA	20 / 80
506455N	3/4" F x 26/3		LA	20 / 80
506456N	3/4" F x 32/3		LA	10 / 40
506483N	1" F x 25/2,5		LA	15 / 60
506450N	1" F x 26/3		LA	15 / 60
506451N	1" F x 32/3		LA	15 / 60

RP 732



Compression straight female fitting for polyethylene pipe.

Code	Size	Color	Class	Packaging
506457	3/4" Fx25/2,3		LA	15 / 60
506494	1" F x 25/2,3		LA	15 / 60
506457N	3/4" F x 25/2,3		LA	15 / 60
506494N	1" F x 25/2,3		LA	15 / 60

RA 861



Compression angle male fitting for multilayer pipe.

Code	Size	Color	Class	Packaging
506488	3/4" M x 25/2,5		LA	20 / 80
506473	3/4" M x 26/3		LA	10 / 80
506486	1" M x 25/2,5		LA	10 / 80
506463	1" M x 26/3		LA	10 / 40
506464	1" M x 32/3		LA	10 / 40
506488N	3/4" M x 25/2,5		LA	20 / 80
506473N	3/4" M x 26/3		LA	10 / 80
506486N	1" M x 25/2,5		LA	10 / 80
506463N	1" M x 26/3		LA	10 / 80
506464N	1" M x 32/3		LA	10 / 40

RA 862



Compression angle female fitting for multilayer pipe.

Code	Size	Color	Class	Packaging
506487	3/4" F x 25/2,5		LA	10 / 40
506470	3/4" F x 26/3		LA	10 / 40
506485	1" F x 25/2,5		LA	10 / 40
506461	1" F x 26/3		LA	10 / 40
506462	1" F x 32/3		LA	10 / 40
506487N	3/4" F x 25/2,5		LA	10 / 40
506470N	3/4" F x 26/3		LA	10 / 40
506485N	1" F x 25/2,5		LA	10 / 40
506461N	1" F x 26/3		LA	10 / 40
506462N	1" F x 32/3		LA	10 / 40

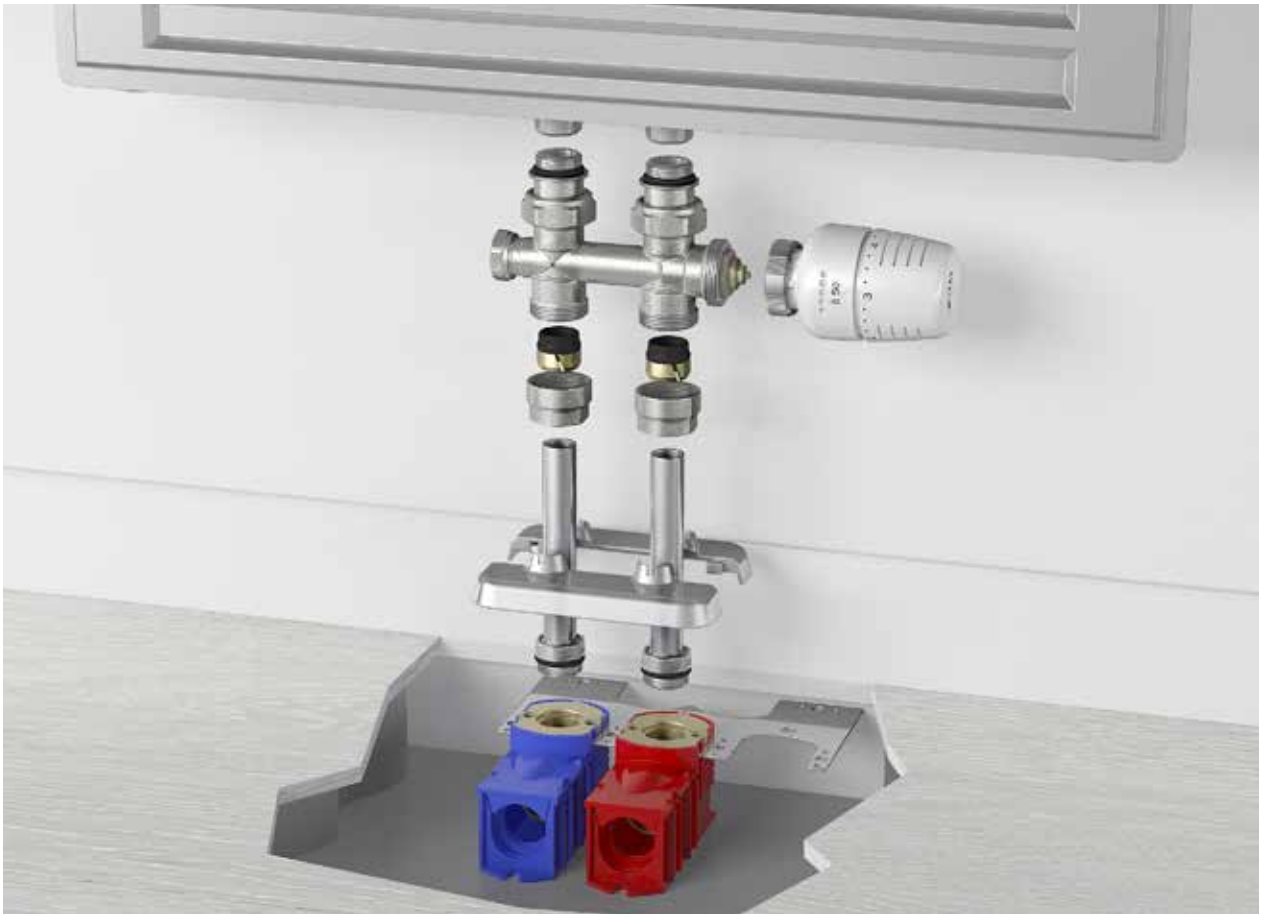
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UNDER-FLOOR FITTINGS

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.

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.



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SS 1740



Under-floor distribution box with double EUROK male output for serial connections.

Code	Size	Color	Class	Packaging
500154	1/2" F x EUROK	■	MA	6 / 72

SS 1710 BR



Under-floor distribution boxes with 90° EUROK male fitting equipped with template.

Code	Size	Color	Class	Packaging
520060	1/2" F x EUROK	■ - ■	MA	4 / 48

SS 1710 B



Under-floor distribution boxes with 90° EUROK male fitting equipped with template.

Code	Size	Color	Class	Packaging
500132	1/2" F x EUROK	■	MA	4 / 48

SS 1710 R



Under-floor distribution boxes with 90° EUROK male fitting equipped with template.

Code	Size	Color	Class	Packaging
500132R	1/2" F x EUROK	■	MA	4 / 48

SS 1711 B



Under-floor distribution box with 90° EUROK male fitting.

Code	Size	Color	Class	Packaging
500131	1/2" F x EUROK	■	MA	8 / 96

SS 1711 R



Under-floor distribution box with 90° EUROK male fitting.

Code	Size	Color	Class	Packaging
500131R	1/2" F x EUROK	■	MA	8 / 96



AS 1925 >> p. 106



RR 702 >>p. 106

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TOOLS AND GENERAL ACCESSORIES

ACO 103 is a battery-powered pressing device equipped with numerous innovative functions that make work safer and more efficient.
The swivelling head of the pressing machine enables optimum positioning, even in the tightest working areas.
The ergonomically designed 2K housing ensures safe handling, while the powerful Milwaukee® lithium-ion batteries guarantee reliable performance.
The ACO 103 has a redundant power cut-off and a pressing force monitor with LED display, which gives you feedback on the status of the tool at all times.
Another highlight is the electric retaining bolt lock, which offers additional safety during installation.
The integrated pressing point lighting makes it easier to work in poor lighting conditions and, thanks to Bluetooth® technology, you can conveniently call up device-related data via the NovoCheck app.
This innovative technology allows you to monitor the performance of your crimping tool and quickly recognise any error messages.

Scope of application:
- Drinking water-, gas- and heating installations, pipe installations in the refrigeration/air conditioning sector, industry and commercial applications and many more
- Suitable for all authorized jaws of other system manufacturers in the market
- All common profiles for metal and plastic systems available

Technical specifications
Nominal dimensions (metal pipe): up to 35 mm
Nominal dimensions (plastic pipe): up to 40 mm
Weight without battery: 1.6 kg
Electrical power absorbed: 240 W
Piston force: 19 kN
Piston stroke: 30 mm
Battery: M12™ Milwaukee® battery system (1)
Battery capacity (2): up to 250 pressing cycles
Charging time (3): 45 -75 min.

(1) all Milwaukee® capacities available on the market can be used
(2) depending on the material processed, nominal widths and battery capacity
(3) depending on battery capacity

+ PLUS

- Rotatable head: enables the best possible positioning of the cordless crimping machine (Fig. 1).
- Ergonomic handling: the 2K housing and low weight of just 1.6 kg ensure easy and safe one-handed operation.
- Powerful batteries: the Milwaukee® lithium-ion batteries offer reliable performance and a battery capacity of up to 250 crimps.
- LED indicator: Indicates the battery charge level and the status of the crimping tool (Fig. 2).
- Pressing force monitoring: the redundant force cut-off provides additional safety.
- Electrical retaining bolt lock: provides greater safety during installation.
- Pressing point lighting: makes it easier to work in low ambient light.
- Bluetooth® technology: enables evaluation of the crimping tool performance via the NovoCheck app

Fig. 1

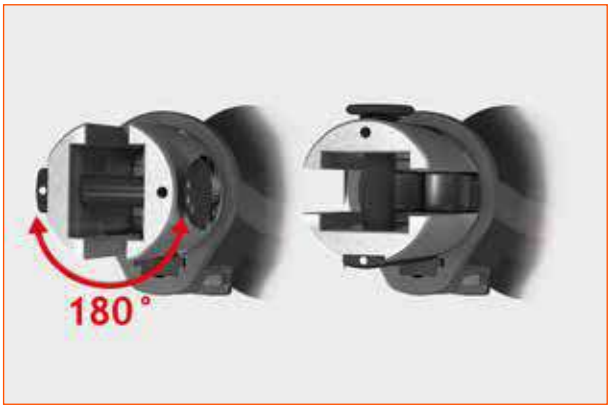


Fig. 2



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Metal up to 35 mm
Plastic up to 40 mm

One-hand operation

Rotatable head

Illumination of the press area

Data transfer via Bluetooth®

ACO 103



Battery-pressmachine with transport case, battery and charger.

Code	Class	Packaging
5217380-320	IR	1

AR 10 NP



Jaws for press fittings.

Code	Size	Class	Packaging
46460-50	Ø16 B	IR	1
46462-50	Ø20 B	IR	1
46463-50	Ø26 B	IR	1
48058-50	Ø16 TH	IR	1
48060-50	Ø20 TH	IR	1
48061-50	Ø25 TH	IR	1
48062-50	Ø26 TH	IR	1
48066-50	Ø16 U	IR	1
48068-50	Ø20 U	IR	1
48069-50	Ø25 U	IR	1

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AR 02



Kit of calipers for multilayer pipe complete with carrying case.

Code	Size	Class	Packaging
501797	Ø14/2 - Ø16/2 - Ø18/2 Ø20/2 - Ø26/3 - Ø32/3 Ø40/3,5 - Ø50/4 - Ø63/4,5	IR	1

AR 09



Grip for multilayer pipe caliper.

Code	Class	Packaging
IM0001	IR	1

AR 04



Calipers for multilayer pipe.

Code	Size	Class	Packaging
CA0001	Ø14/2	IR	1
CA0002	Ø16/2	IR	1
CA0013	Ø16/2,25	IR	1
CA0003	Ø18/2	IR	1
CA0004	Ø20/2	IR	1
CA0015	Ø20/2,25	IR	1
CA0016	Ø20/2,5	IR	1
CA0017	Ø25/2,5	IR	1
CA0005	Ø26/3	IR	1
CA0006	Ø32/3	IR	1
CA0007	Ø40/3,5	IR	1
CA0008	Ø50/4	IR	1
CA0009	Ø63/4,5	IR	1

AR 01



Caliper for multilayer pipe.

Code	Size	Class	Packaging
500406	From Ø16/2 to Ø32/3	IR	1
500407	Ø40/3,5	IR	1
500408	Ø50/4	IR	1
500409	Ø63/4,5	IR	1

PT 5706

Self-threading plug.



Code	Size	Color	Class	Packaging
510112	16/2		JC	5 / 200
510114	20/2		JC	5 / 200

HD17



Roll distributor for polyethylene and multilayer pipe.

Code	Size	Class	Packaging
HD17	Pipe from Ø16 to Ø26	IR	1

AR 1920



Flexible internal core for rapid pipe bends.

Code	Size	Length	Class	Packaging
140069	Ø16/2	0.60 m	IR	1
140060	Ø16/2	2 m	IR	1
140068	Ø18/2	0.60 m	IR	1
140066	Ø18/2	2 m	IR	1
140081	Ø20/2	0.60 m	IR	1
140082	Ø20/2	2 m	IR	1
140043	Ø26/3	0.60 m	IR	1
140042	Ø32/3	0.60 m	IR	1

AR 1921



Flexible external core for rapid pipe bends.

Code	Size	Length	Class	Packaging
140045	Ø16/2	0.60 m	IR	1
140044	Ø18/2	0.60 m	IR	1
140039	Ø20/2	0.60 m	IR	1

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AC 671

Wrench for rotating nipples.



Code	Size	Class	Packaging
500030	27-30 mm	JC	20 / 160
500029	37-48 mm	JC	20

AC 670

Wrench for compression fittings.



Code	Size	Class	Packaging
501181	24-27 mm	JC	15

AC 873 FM

Food grade silicone grease for fittings lubrication (50 g pack).

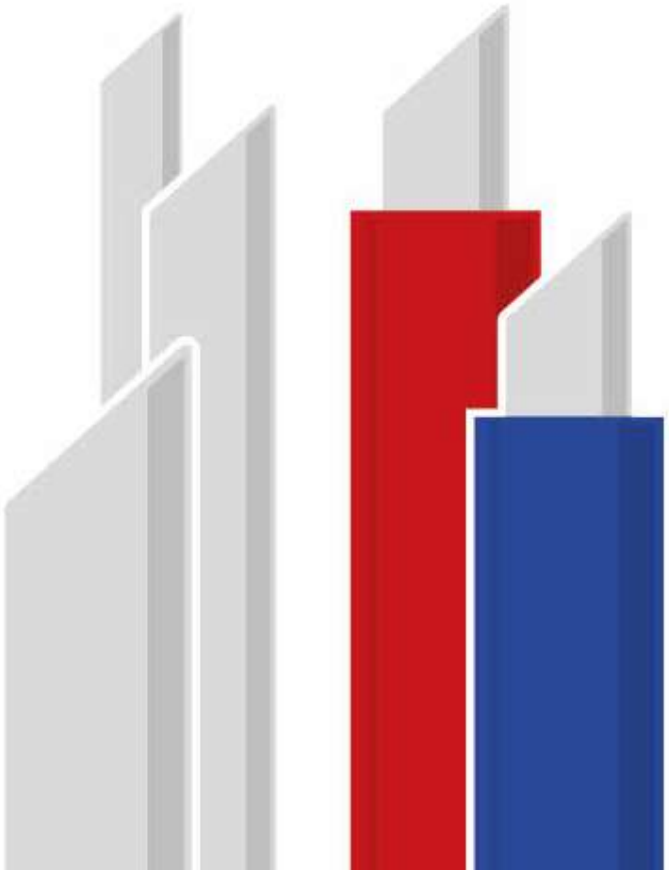


Code	Class	Packaging
GRASIL50G	IG	1 / 16

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PIPES



INDEX



IVAR-APEX multilayer pipes 122



IVAR-APERT multilayer pipes 124



PE-Xa pipes 126



PE-RT pipes 128

FOCUS: Multilayer pipes

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:

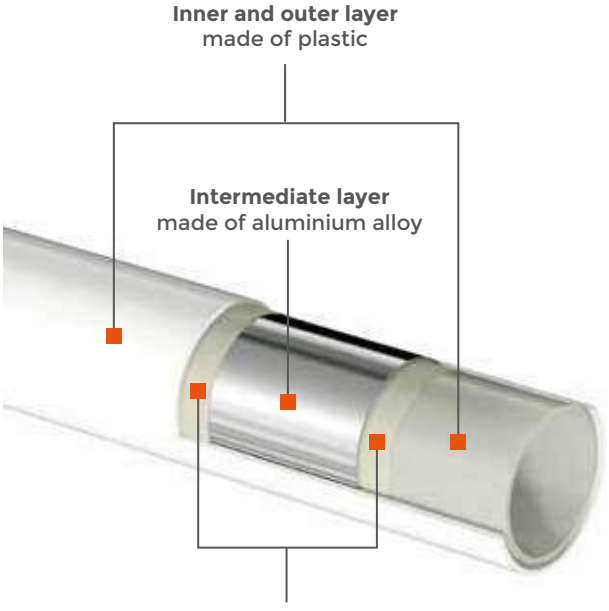
- light weight
- flexibility
- low surface roughness
- high resistance to corrosion and chlorinated water

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.



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“.



Fig. 1

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“.



Fig. 2

NOTE: Use only water or silicone-based oils to lubricate the fittings. Use of mineral-based oil or grease is prohibited. It is also prohibited to change the original o-rings.

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IVAR-APEX MULTILAYER PIPES

IVAR-APEX R



PE-Xb/Al/PE-Xb multilayer pipe in coils.

Code	Size	Class	Packaging
I-APEX16R100	Ø16/2 (Aluminium 0,20 mm)	HM	100 m
I-APEX16R200	Ø16/2 (Aluminium 0,20 mm)	HM	200 m
I-APEX16R400	Ø16/2 (Aluminium 0,20 mm)	HM	400 m
I-APEX20R100	Ø20/2 (Aluminium 0,25 mm)	HM	100 m
I-APEX25R50	Ø25/2,5 (Aluminium 0,30 mm)	HM	50 m
I-APEX26R50	Ø26/3 (Aluminium 0,30 mm)	HM	50 m
I-APEX32R50	Ø32/3 (Aluminium 0,40 mm)	HM	50 m

IVAR-APEX RCB



PE-Xb/Al/PE-Xb multilayer pipe in coils complete with thermal insulation.

Code	Size	Insulation thickness	Color	Class	Packaging
I-APEX16RCB50	Ø16/2 (Aluminium 0,20 mm)	6 mm		HO	50 m
I-APEX20RCB50	Ø20/2 (Aluminium 0,25 mm)	6 mm		HO	50 m
I-APEX25RCB25	Ø25/2,5 (Aluminium 0,30 mm)	10 mm		HO	25 m
I-APEX25RCB50	Ø25/2,5 (Aluminium 0,30 mm)	10 mm		HO	50 m
I-APEX26RCB50	Ø26/3 (Aluminium 0,30 mm)	10 mm		HO	50 m
I-APEX32RCB25	Ø32/3 (Aluminium 0,40 mm)	10 mm		HO	25 m

IVAR-APEX RCR



PE-Xb/Al/PE-Xb multilayer pipe in coils complete with thermal insulation.

Code	Size	Insulation thickness	Color	Class	Packaging
I-APEX16RCR50	Ø16/2 (Aluminium 0,20 mm)	6 mm		HO	50 m
I-APEX20RCR50	Ø20/2 (Aluminium 0,25 mm)	6 mm		HO	50 m
I-APEX25RCR25	Ø25/2,5 (Aluminium 0,30 mm)	10 mm		HO	25 m
I-APEX25RCR50	Ø25/2,5 (Aluminium 0,30 mm)	10 mm		HO	50 m
I-APEX26RCR50	Ø26/3 (Aluminium 0,30 mm)	10 mm		HO	50 m
I-APEX32RCR25	Ø32/3 (Aluminium 0,40 mm)	10 mm		HO	25 m

IVAR-APEX RCF



PE-Xb/Al/PE-Xb multilayer pipe in coils complete with thermal insulation for cooling.

Code	Size	Insulation thickness	Color	Class	Packaging
I-APEX16RCF50	Ø16/2 (Aluminium 0,20 mm)	13 mm		HO	50 m
I-APEX20RCF50	Ø20/2 (Aluminium 0,25 mm)	13 mm		HO	50 m
I-APEX26RCF50	Ø26/3 (Aluminium 0,30 mm)	13 mm		HO	50 m
I-APEX32RCF25	Ø32/3 (Aluminium 0,40 mm)	13 mm		HO	25 m

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IVAR-APEX B



PE-Xb/Al/PE-Xb multilayer pipe in bars.

Code	Size	Length	Class	Packaging
I-APEX16B4	Ø16/2 (Aluminium 0,20 mm)	4 m	HX	100 m
I-APEX20B4	Ø20/2 (Aluminium 0,25 mm)	4 m	HX	64 m
I-APEX26B4	Ø26/3 (Aluminium 0,30 mm)	4 m	HX	40 m
I-APEX32B4	Ø32/3 (Aluminium 0,40 mm)	4 m	HX	28 m

ALPEX DUO



PE-Xb/Al/PE-Xb multilayer pipe in bars.

Code	Size	Length	Class	Packaging
ALPEX-16B	Ø16/2 (Aluminium 0,30 mm)	5 m	HG	75 m
ALPEX-20B	Ø20/2 (Aluminium 0,40 mm)	5 m	HG	50 m
ALPEX-26B	Ø26/3 (Aluminium 0,65 mm)	5 m	HG	25 m
ALPEX-32B	Ø32/3 (Aluminium 0,85 mm)	5 m	HG	20 m
ALPEX-40B	Ø40/3,5 (Aluminium 0,85 mm)	5 m	HG	25 m
ALPEX-50B	Ø50/4 (Aluminium 1,00 mm)	5 m	HG	25 m
ALPEX-63B	Ø63/4,5 (Aluminium 1,20 mm)	5 m	HG	15 m

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IVAR-APERT MULTILAYER PIPES

IVAR-APERT R



PE-RT/Al/PE-RT multilayer pipe in coils.

Code	Size	Class	Packaging
I-APERT16R25	Ø16/2 (Aluminium 0,20 mm)	HC	25 m
I-APERT16R50	Ø16/2 (Aluminium 0,20 mm)	HC	50 m
I-APERT16R100	Ø16/2 (Aluminium 0,20 mm)	HC	100 m
I-APERT16R200	Ø16/2 (Aluminium 0,20 mm)	HC	200 m
I-APERT16R400	Ø16/2 (Aluminium 0,20 mm)	HC	400 m
I-APERT20R100	Ø20/2 (Aluminium 0,20 mm)	HC	100 m
I-APERT25R50	Ø25/2,5 (Aluminium 0,25 mm)	HC	50 m
I-APERT26R50	Ø26/3 (Aluminium 0,30 mm)	HC	50 m
I-APERT32R50	Ø32/3 (Aluminium 0,30 mm)	HC	50 m

IVAR-APERT RCB



PE-RT/Al/PE-RT multilayer pipe in coils complete with thermal insulation.

Code	Size	Insulation thickness	Color	Class	Packaging
I-APERT16RCB5	Ø16/2 (Aluminium 0,20 mm)	6 mm		HC	50 m
I-APERT20RCB5	Ø20/2 (Aluminium 0,20 mm)	9 mm		HC	50 m
I-APERT25RCB5	Ø25/2,5 (Aluminium 0,25 mm)	9 mm		HC	50 m
I-APERT26RCB5	Ø26/3 (Aluminium 0,30 mm)	9 mm		HC	50 m
I-APERT32RCB2	Ø32/3 (Aluminium 0,30 mm)	9 mm		HC	25 m

IVAR-APERT RCR



PE-RT/Al/PE-RT multilayer pipe in coils complete with thermal insulation.

Code	Size	Insulation thickness	Color	Class	Packaging
I-APERT16RCR5	Ø16/2 (Aluminium 0,20 mm)	6 mm		HC	50 m
I-APERT20RCR5	Ø20/2 (Aluminium 0,20 mm)	9 mm		HC	50 m
I-APERT25RCR5	Ø25/2,5 (Aluminium 0,25 mm)	9 mm		HC	50 m
I-APERT26RCR5	Ø26/3 (Aluminium 0,30 mm)	9 mm		HC	50 m
I-APERT32RCR2	Ø32/3 (Aluminium 0,30 mm)	9 mm		HC	25 m

IVAR-APERT RCF



PE-RT/Al/PE-RT multilayer pipe in coils complete with thermal insulation for cooling.

Code	Size	Insulation thickness	Color	Class	Packaging
I-APERT16RCF5	Ø16/2 (Aluminium 0,20 mm)	13 mm		HC	50 m
I-APERT20RCF5	Ø20/2 (Aluminium 0,20 mm)	13 mm		HC	50 m
I-APERT26RCF5	Ø26/3 (Aluminium 0,30 mm)	13 mm		HC	50 m
I-APERT32RCF2	Ø32/3 (Aluminium 0,30 mm)	13 mm		HC	25 m

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IVAR-APERT B



PE-RT/Al/PE-RT multilayer pipe in bars.

Code	Size	Length	Class	Packaging
I-APERT16B4	Ø16/2 (Aluminium 0,20 mm)	4 m	HC	92 m
I-APERT20B4	Ø20/2 (Aluminium 0,20 mm)	4 m	HC	56 m
I-APERT25B4	Ø25/2,5 (Aluminium 0,25 mm)	4 m	HC	40 m
I-APERT26B4	Ø26/3 (Aluminium 0,30 mm)	4 m	HC	80 m
I-APERT32B4	Ø32/3 (Aluminium 0,30 mm)	4 m	HC	40 m
I-APERT40B5	Ø40/3,5 (Aluminium 0,50 mm)	5 m	HC	40 m
I-APERT50B5	Ø50/4 (Aluminium 0,60 mm)	5 m	HC	25 m
I-APERT63B5	Ø63/4,5 (Aluminium 0,80 mm)	5 m	HC	15 m

IVAR-APERT CRB



PE-RT/Al/PE-RT multilayer pipe in coils complete with corrugated sheath.

Code	Size	Total thickness	Color	Class	Packaging
I-APERT16CRB5	Ø16/2 (Aluminium 0,20 mm)	26 mm		HC	50 m
I-APERT16CRB1	Ø16/2 (Aluminium 0,20 mm)	26 mm		HC	100 m
I-APERT20CRB5	Ø20/2 (Aluminium 0,20 mm)	32 mm		HC	50 m
I-APERT25CRB5	Ø25/2,5 (Aluminium 0,25 mm)	45 mm		HC	50 m
I-APERT26CRB5	Ø26/3 (Aluminium 0,30 mm)	46 mm		HC	50 m
I-APERT32CRB2	Ø32/3 (Aluminium 0,30 mm)	52 mm		HC	25 m

IVAR-APERT CRR



PE-RT/Al/PE-RT multilayer pipe in coils complete with corrugated sheath.

Code	Size	Total thickness	Color	Class	Packaging
I-APERT16CRR5	Ø16/2 (Aluminium 0,20 mm)	26 mm		HC	50 m
I-APERT16CRR1	Ø16/2 (Aluminium 0,20 mm)	26 mm		HC	100 m
I-APERT20CRR5	Ø20/2 (Aluminium 0,20 mm)	32 mm		HC	50 m
I-APERT25CRR5	Ø25/2,5 (Aluminium 0,25 mm)	45 mm		HC	50 m
I-APERT26CRR5	Ø26/3 (Aluminium 0,30 mm)	46 mm		HC	50 m
I-APERT32CRR2	Ø32/3 (Aluminium 0,30 mm)	52 mm		HC	25 m

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PE-Xa PIPES

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.

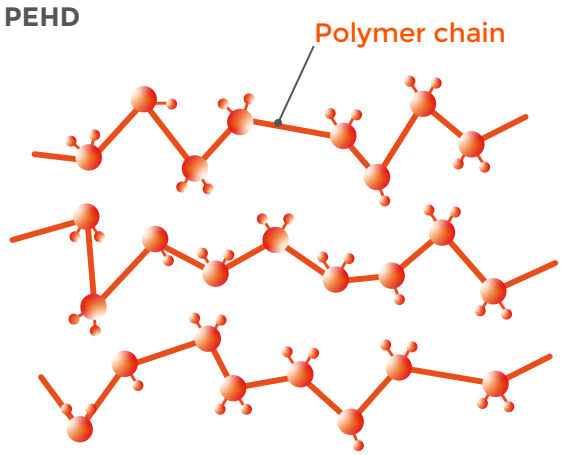
Current standards define different minimum levels of cross-linking for different cross-linked types, especially for reasons linked to manufacturing processes. However, this does not substantially change the final result, which is still cross-linked polyethylene. It makes no sense to compare cross-linking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

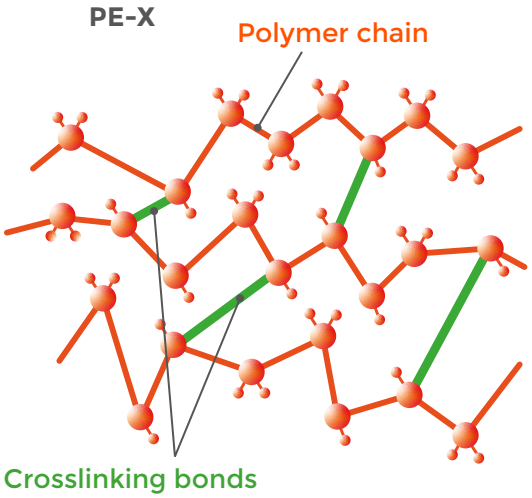
All plastics have a certain gas permeability, including oxygen. Therefore, a certain amount of oxygen can pass through the walls of PE-X pipes over time. for this reason, in closed loop systems such as heating and cooling, they must include an EVOH (Ethylene Vinyl Alcohol) barrier, capable of significantly 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.

+ 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





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IVAR PE-Xa 3



Pipe made of cross-linked polyethylene PE-Xa in coils with 3-layer EVOH barrier.

Code	Size	Class	Packaging
I-PEXA3L16R12	Ø16/2	HN	120 m
I-PEXA3L16R25	Ø16/2	HN	250 m
I-PEXA3L16R60	Ø16/2	HN	600 m
I-PEXA3L17R12	Ø17/2	HN	120 m
I-PEXA3L17R25	Ø17/2	HN	250 m
I-PEXA3L17R60	Ø17/2	HN	600 m
I-PEXA3L20R25	Ø20/2	HN	250 m
I-PEXA3L20R50	Ø20/2	HN	500 m

IVAR-PE-Xa 3 RCB



Pipe made of cross-linked polyethylene PE-Xa with 3-layer EVOH barrier complete with thermal insulation.

Code	Size	Insulation thickness	Color	Class	Packaging
I-PEXA20RCB25	Ø20/2	9 mm		HN	25 m

IVAR-PE-Xa 3 RCR



Pipe made of cross-linked polyethylene PE-Xa with 3-layer EVOH barrier complete with thermal insulation.

Code	Size	Insulation thickness	Color	Class	Packaging
I-PEXA20RCR25	Ø20/2	9 mm		HN	25 m

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PE-RT PIPES

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



High thermal resistance polyethylene PE-RT pipe in coils with 5-layer EVOH barrier.

Code	Size	Color	Class	Packaging
I-PERT5L16R12	Ø16/2		HN	120 m
I-PERT5L16R25	Ø16/2		HN	250 m
I-PERT5L16R30	Ø16/2		HN	300 m
I-PERT5L16R60	Ø16/2		HN	600 m
I-PERT5L17R12	Ø17/2		HN	120 m
I-PERT5L17R25	Ø17/2		HN	250 m
I-PERT5L17R60	Ø17/2		HN	600 m
I-PERT5L20R25	Ø20/2		HN	250 m
I-PERT5L20R50	Ø20/2		HN	500 m

IVAR PE-RT 5R



High thermal resistance polyethylene PE-RT pipe in coils with 5-layer EVOH barrier.

Code	Size	Color	Class	Packaging
I-PERT5L16RR2	Ø16/2		HN	240 m
I-PERT5L16RR6	Ø16/2		HN	600 m
I-PERT5L17RR2	Ø17/2		HN	240 m
I-PERT5L17RR6	Ø17/2		HN	600 m

HK PE-RT

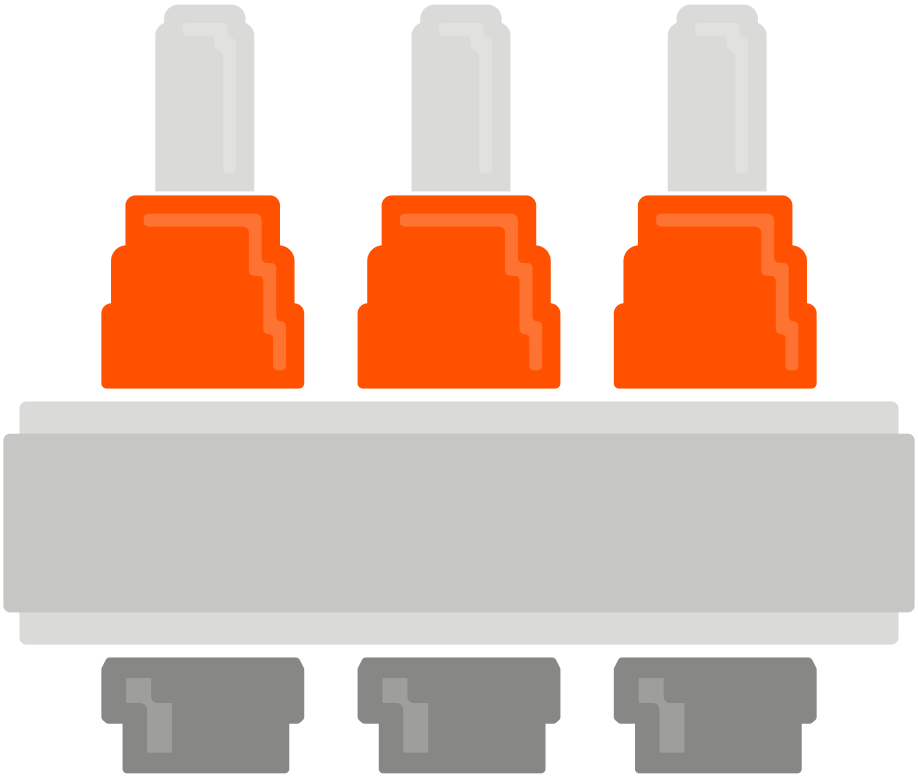


High thermal resistance polyethylene PE-RT pipe in coils.

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

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MANIFOLDS



INDEX


Brass-rod manifolds 132


Stainless steel manifolds 154


Technopolymer manifolds 172


Coplanar manifolds 176


Modular manifolds EASY•RADIANT 180


Modular manifolds EASY•LOCK 184


Modular manifolds COMPACT series 194


Sanitary manifolds IS•BOX 197


Cabinets 202


Terminals for manifolds 206



Air vent valves 207



Brackets 208



Bypass valves 210



Fittings and plugs 212



Spare parts and complementary items 214



Ball valves 218



Zone valves 224

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.

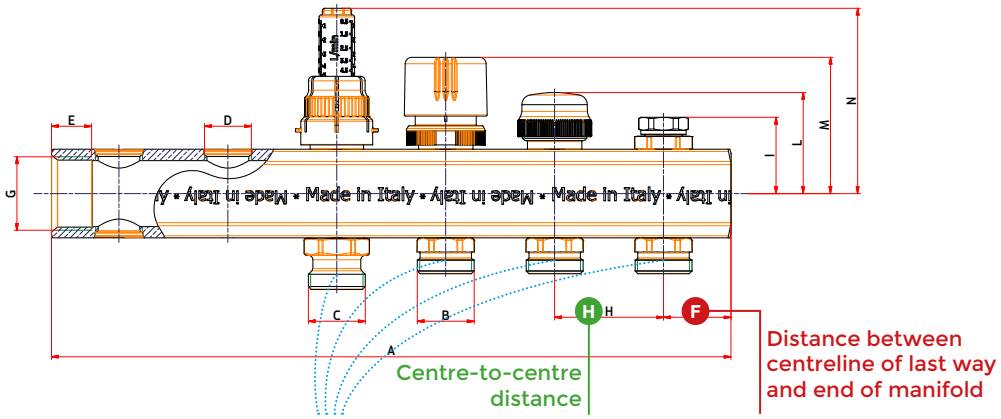
Materials
Body: brass CW617N
Seals and O-rings: peroxide EPDM
Shutoff knobs and caps: ABS

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.

Single manifold dimensions



$$A = (WAYS - 1) \times H + (2 \times F)$$

Size	3/4"	1"	1"1/4	1"1/2
A	(WAYS - 1) × H + (2 × F)			
B	EUROK	EUROK	EUROK	3/4" F
C	EUROK	EUROK	EUROK	-
D	1/2" F	1/2" F	1/2" F	1/2" F
E	15 mm	18 mm	19 mm	21 mm
F	26,5 mm	31 mm	32 mm	38 mm
G	3/4"	1"	1"1/4	1"1/2
H	40 mm	50 mm	50 mm	50 mm
I	-	36 mm	41 mm	45,5 mm
L	-	46,5 mm	51,5 mm	-
M	-	66,5 mm	72 mm	77 mm
N	-	88 mm	93,5 mm	-

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Examples of application for brass rod manifold accessories

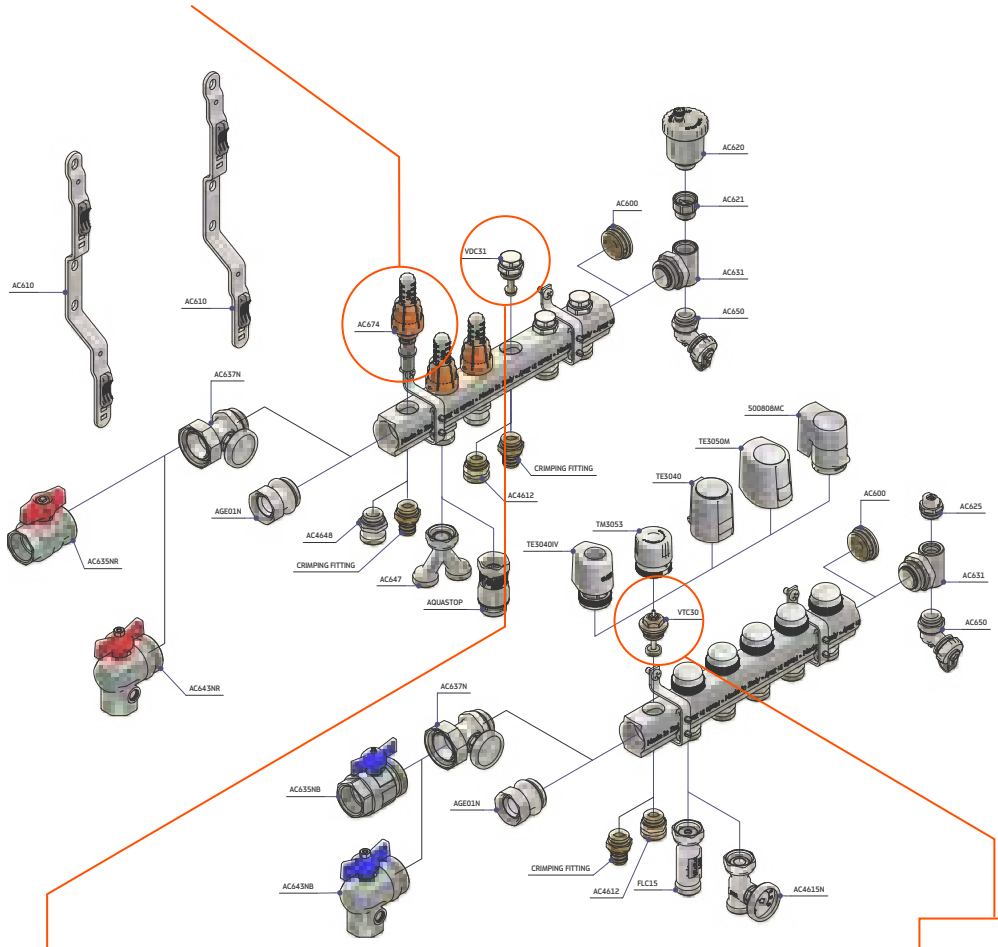


FLUXER 0-2,5 l/m

The maximum flow rate remains the same, but thanks to an adjustment range of 0-2.5 l/min*, the balance of modern radiant systems is even more accurate.

+ **Glass panel replaceable also with system in operation**
+ **Possibility of shutoff and position memory**

**FLUXER 0-2.5 l/min as standard on 1" manifolds; FLUXER 0-5 l/min as standard on 1"1/4 manifolds*



Insert with thermostatic control option

(NEW version with dynamic insert available)
The manifolds with thermostatic control option are supplied with a control knob to protect the thread and possible isolation of the bypass circuit.

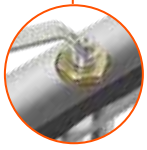


FOCUS
See next page



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.



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The **dynamic balancing cartridges** for manifolds represent a major evolution in IVAR's product range for radiant systems.

In a correctly balanced system, the water is distributed between the various circuits on the basis of the design parameters defined by the technical heating engineer. Typically, balancing at the manifold is static, and the flow meters are set at system commissioning. However, during operation, the system often finds itself in conditions other than those envisaged in the design: circuits opening and closing on the basis of the ambient temperature modify the flow rates even in correctly balanced circuits. Static balancing is not designed to react to the system's operating conditions.

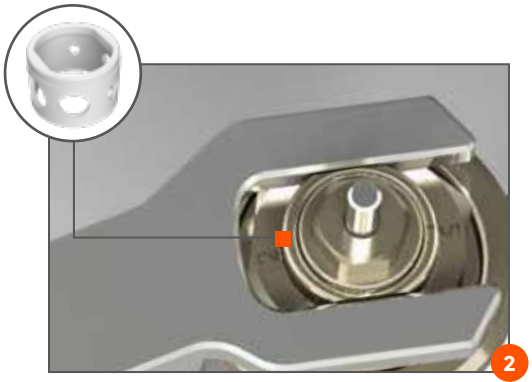
On the other hand, the dynamic balancing cartridges react when the system operating conditions change to maintain the required flow rates in each circuit. This therefore guarantees the correct heat output during operation not only in total load, but also in partial load conditions, with concrete benefits in terms of comfort and energy efficiency. The dynamic balancing cartridges can also be used for shutting off the circuit.

The new dynamic balancing head is made up of three elements:

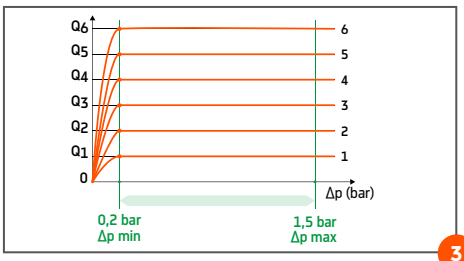
1. **thermostatic insert** which, when combined with an electrothermal head controlled by a room thermostat, allows the opening and closing of each floor circuit;
2. **flow selector** that lets you set the maximum flow rate through the single circuit. The headwork has a selector with 6 positions, one for each a flow rate value;
3. **dynamic insert** to keep the flow rate constant on that circuit regardless of pressure variations in the system, because of opening / closing of the circuits.



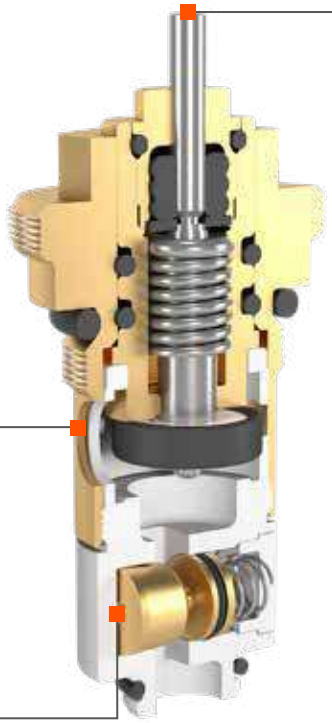
1 Thermostatic insert



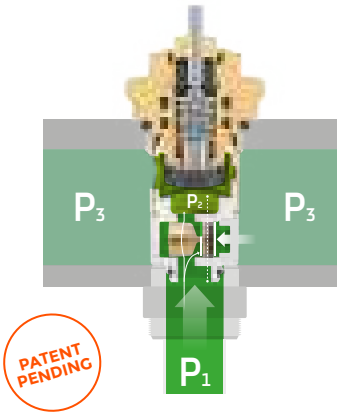
2 Flow selector



3 Dynamic insert



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FOCUS: Dynamic insert

The dynamic insert is a mobile element on which the pressures P1, P3 and the action of a calibrated spring insist: the combined action of these forces and the profile of the insert makes the pressure difference between P2 and P3 (between the thermostatic insert and the calibrated orifice of the flow selector) constant, even in case of pressure variations of P1 or P3. In this way the flow is constant through the single circuit.

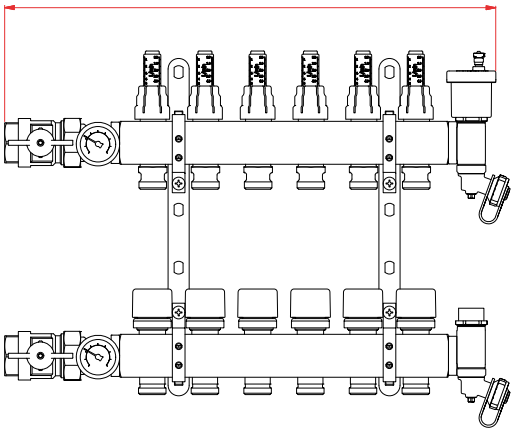
It is possible to order manifolds with dynamic balancing inserts:
add suffix "D" at the end of the code >> +14,00€ for each manifold output.

EXAMPLE



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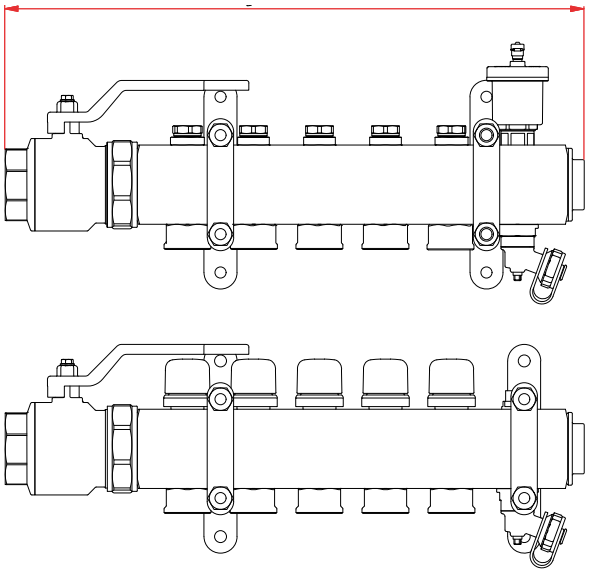
1” - 1”1/4 manifolds kit width and suitable cabinet



Manifold	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways	13 Ways
1” brass 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
AC 841 E - Cabinet code Cabinet width	200171 500 mm	200171 500 mm	200171 500 mm	200171 500 mm	200172 700 mm	200172 700 mm	200172 700 mm	200172 700 mm	200173 900 mm	200173 900 mm	200173 900 mm	200173 900 mm
AC 840 - Cabinet code Cabinet width	200086 500 mm	200086 500 mm	200086 500 mm	200086 500 mm	200686 600 mm	200686 600 mm	200186 700 mm	200186 700 mm	200786 800 mm	200786 800 mm	200286 900 mm	200286 900 mm

Manifold	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways
1”1/4 brass 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
AC 841 E - Cabinet code Cabinet width	200171 500 mm	200171 500 mm	200171 500 mm	200172 700 mm	200172 700 mm	200172 700 mm	200172 700 mm	200173 900 mm	200173 900 mm	200173 900 mm	200173 900 mm
AC 840 - Cabinet code Cabinet width	200086 500 mm	200086 500 mm	200086 500 mm	200686 600 mm	200686 600 mm	200186 700 mm	200186 700 mm	200786 800 mm	200786 800 mm	200286 900 mm	200286 900 mm

1”1/2 Manifolds kit width and suitable cabinet



Manifold	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways
1”1/2 brass 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
AC 830 - Cabinet code Cabinet width	200089 500 mm	200089 500 mm	200590 600 mm	200590 600 mm	200090 700 mm	200090 700 mm	200690 800 mm	200690 800 mm	200190 900 mm	200190 900 mm	200790 1.000 mm

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CI 600 N



Flow manifold with flow meter/adjuster FLUXER (1": 0-2.5 l/min*; 1"1/4: 0-5 l/min) and EUROK connections.



* 0-5 l/min ON REQUEST

Code	Ways	Size	Color	Class	Packaging
502372N	2	1" x EUROK		NE	12
502373N	3	1" x EUROK		NE	12
502374N	4	1" x EUROK		NE	8
502375N	5	1" x EUROK		NE	6
502376N	6	1" x EUROK		NE	6
502377N	7	1" x EUROK		NE	6
502378N	8	1" x EUROK		NE	6
502379N	9	1" x EUROK		NE	6
502380N	10	1" x EUROK		NE	6
502381N	11	1" x EUROK		NE	6
502382N	12	1" x EUROK		NE	6
502383N	13	1" x EUROK		NE	6
502392N	2	1"1/4 x EUROK		NE	8
502393N	3	1"1/4 x EUROK		NE	6
502394N	4	1"1/4 x EUROK		NE	5
502395N	5	1"1/4 x EUROK		NE	5
502396N	6	1"1/4 x EUROK		NE	5
502397N	7	1"1/4 x EUROK		NE	5
502398N	8	1"1/4 x EUROK		NE	5
502399N	9	1"1/4 x EUROK		NE	5
502400N	10	1"1/4 x EUROK		NE	5
502401N	11	1"1/4 x EUROK		NE	5
502402N	12	1"1/4 x EUROK		NE	5
502403N	13	1"1/4 x EUROK		NE	5



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).



TA 4420 / TP 4410 >>p. 108

CI 601 N



Flow manifold with flow meter/adjuster FLUXER (1": 0-2.5 l/min*; 1"1/4: 0-5 l/min), EUROK connections, additional connections for air vent valve and filling/drainage valve.



* 0-5 l/min ON REQUEST

Code	Ways	Size	Color	Class	Packaging
502082N	2	1" x EUROK		NE	12
502083N	3	1" x EUROK		NE	8
502084N	4	1" x EUROK		NE	6
502085N	5	1" x EUROK		NE	6
502086N	6	1" x EUROK		NE	6
502087N	7	1" x EUROK		NE	6
502088N	8	1" x EUROK		NE	6
502089N	9	1" x EUROK		NE	6
502090N	10	1" x EUROK		NE	6
502091N	11	1" x EUROK		NE	6
502092N	12	1" x EUROK		NE	6
502182N	2	1"1/4 x EUROK		NE	6
502183N	3	1"1/4 x EUROK		NE	6
502184N	4	1"1/4 x EUROK		NE	5
502185N	5	1"1/4 x EUROK		NE	5
502186N	6	1"1/4 x EUROK		NE	5
502187N	7	1"1/4 x EUROK		NE	5
502188N	8	1"1/4 x EUROK		NE	5
502189N	9	1"1/4 x EUROK		NE	5
502190N	10	1"1/4 x EUROK		NE	5
502191N	11	1"1/4 x EUROK		NE	5
502192N	12	1"1/4 x EUROK		NE	5

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BRASS-ROD MANIFOLDS

CI 552 N

Flow manifold with micrometric dually adjusted lockshields and EUROK connections.



Code	Ways	Size	Color	Class	Packaging
400042N	2	1" x EUROK		NC	12
400043N	3	1" x EUROK		NC	12
400044N	4	1" x EUROK		NC	8
400045N	5	1" x EUROK		NC	6
400046N	6	1" x EUROK		NC	6
400047N	7	1" x EUROK		NC	6
400048N	8	1" x EUROK		NC	6
400049N	9	1" x EUROK		NC	6
400050N	10	1" x EUROK		NC	6
400051N	11	1" x EUROK		NC	6
400052N	12	1" x EUROK		NC	6
400053N	13	1" x EUROK		NC	6
400082N	2	1"1/4 x EUROK		NC	12
400083N	3	1"1/4 x EUROK		NC	10
400084N	4	1"1/4 x EUROK		NC	8
400085N	5	1"1/4 x EUROK		NC	8
400086N	6	1"1/4 x EUROK		NC	6
400087N	7	1"1/4 x EUROK		NC	5
400088N	8	1"1/4 x EUROK		NC	5
400089N	9	1"1/4 x EUROK		NC	4
400090N	10	1"1/4 x EUROK		NC	4
400091N	11	1"1/4 x EUROK		NC	4
400092N	12	1"1/4 x EUROK		NC	4
400093N	13	1"1/4 x EUROK		NC	4



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).



TA 4420 / TP 4410 >>p. 108

CI 553 N

Flow manifold with micrometric dually adjusted lockshields, EUROK connections, additional connections for air vent valve and filling/ drainage valve.



Code	Ways	Size	Color	Class	Packaging
500962N	2	1" x EUROK		NC	12
500963N	3	1" x EUROK		NC	8
500964N	4	1" x EUROK		NC	6
500965N	5	1" x EUROK		NC	6
500966N	6	1" x EUROK		NC	6
500967N	7	1" x EUROK		NC	6
500968N	8	1" x EUROK		NC	6
500969N	9	1" x EUROK		NC	6
500970N	10	1" x EUROK		NC	6
500971N	11	1" x EUROK		NC	6
500972N	12	1" x EUROK		NC	6
400002N	2	1"1/4 x EUROK		NC	10
400003N	3	1"1/4 x EUROK		NC	8
400004N	4	1"1/4 x EUROK		NC	8
400005N	5	1"1/4 x EUROK		NC	6
400006N	6	1"1/4 x EUROK		NC	5
400007N	7	1"1/4 x EUROK		NC	5
400008N	8	1"1/4 x EUROK		NC	4
400009N	9	1"1/4 x EUROK		NC	4
400010N	10	1"1/4 x EUROK		NC	4
400011N	11	1"1/4 x EUROK		NC	4
400012N	12	1"1/4 x EUROK		NC	4

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CI 552 (1"1/2)

Flow manifold with micrometric dually adjusted lockshields and 3/4" F connections.



Code	Ways	Size	Color	Class	Packaging
560002	2	1"1/2 x 3/4" F		NC	1
560003	3	1"1/2 x 3/4" F		NC	1
560004	4	1"1/2 x 3/4" F		NC	1
560005	5	1"1/2 x 3/4" F		NC	1
560006	6	1"1/2 x 3/4" F		NC	1
560007	7	1"1/2 x 3/4" F		NC	1
560008	8	1"1/2 x 3/4" F		NC	1
560009	9	1"1/2 x 3/4" F		NC	1
560010	10	1"1/2 x 3/4" F		NC	1
560011	11	1"1/2 x 3/4" F		NC	1
560012	12	1"1/2 x 3/4" F		NC	1
560013	13	1"1/2 x 3/4" F		NC	1



RA 761 / RP 731 (3/4" M) >>p. 110

CI 553 (1"1/2)

Flow manifold with micrometric dually adjusted lockshields, 3/4" F connections, additional connections for air vent valve and filling/ drainage valve.



Code	Ways	Size	Color	Class	Packaging
560002S	2	1"1/2 x 3/4" F		NC	1
560003S	3	1"1/2 x 3/4" F		NC	1
560004S	4	1"1/2 x 3/4" F		NC	1
560005S	5	1"1/2 x 3/4" F		NC	1
560006S	6	1"1/2 x 3/4" F		NC	1
560007S	7	1"1/2 x 3/4" F		NC	1
560008S	8	1"1/2 x 3/4" F		NC	1
560009S	9	1"1/2 x 3/4" F		NC	1
560010S	10	1"1/2 x 3/4" F		NC	1
560011S	11	1"1/2 x 3/4" F		NC	1
560012S	12	1"1/2 x 3/4" F		NC	1

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BRASS-ROD MANIFOLDS

CI 554 CN

Return manifold with isolation valves with protection cap for thermostatic insert and EUROK connections.



Code	Ways	Size	Color	Class	Packaging
501650CN	2	1" x EUROK		NC	12
501651CN	3	1" x EUROK		NC	12
501652CN	4	1" x EUROK		NC	8
501653CN	5	1" x EUROK		NC	6
501654CN	6	1" x EUROK		NC	6
501655CN	7	1" x EUROK		NC	6
501656CN	8	1" x EUROK		NC	6
501657CN	9	1" x EUROK		NC	6
501658CN	10	1" x EUROK		NC	6
501659CN	11	1" x EUROK		NC	6
501660CN	12	1" x EUROK		NC	6
501661CN	13	1" x EUROK		NC	6
400122CN	2	1"1/4 x EUROK		NC	12
400123CN	3	1"1/4 x EUROK		NC	10
400124CN	4	1"1/4 x EUROK		NC	8
400125CN	5	1"1/4 x EUROK		NC	8
400126CN	6	1"1/4 x EUROK		NC	6
400127CN	7	1"1/4 x EUROK		NC	5
400128CN	8	1"1/4 x EUROK		NC	5
400129CN	9	1"1/4 x EUROK		NC	4
400130CN	10	1"1/4 x EUROK		NC	4
400131CN	11	1"1/4 x EUROK		NC	4
400132CN	12	1"1/4 x EUROK		NC	4
400133CN	13	1"1/4 x EUROK		NC	4



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).



It is possible to order these items with manual heads (suffix "MN" instead of "CN" at the end of the code).



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).



Electrothermal heads >>p. 444



TA 4420 / TP 4410 >>p. 108

CI 555 CN

Return manifold with isolation valves with protection cap for thermostatic insert, EUROK connections, additional connections for air vent valve and filling/drainage valve.



Code	Ways	Size	Color	Class	Packaging
500462CN	2	1" x EUROK		NC	12
500463CN	3	1" x EUROK		NC	8
500464CN	4	1" x EUROK		NC	6
500465CN	5	1" x EUROK		NC	6
500466CN	6	1" x EUROK		NC	6
500467CN	7	1" x EUROK		NC	6
500468CN	8	1" x EUROK		NC	6
500469CN	9	1" x EUROK		NC	6
500470CN	10	1" x EUROK		NC	6
500471CN	11	1" x EUROK		NC	6
500472CN	12	1" x EUROK		NC	6
400022CN	2	1"1/4 x EUROK		NC	1
400023CN	3	1"1/4 x EUROK		NC	1
400024CN	4	1"1/4 x EUROK		NC	1
400025CN	5	1"1/4 x EUROK		NC	1
400026CN	6	1"1/4 x EUROK		NC	1
400027CN	7	1"1/4 x EUROK		NC	1
400028CN	8	1"1/4 x EUROK		NC	5
400029CN	9	1"1/4 x EUROK		NC	8
400030CN	10	1"1/4 x EUROK		NC	8
400031CN	11	1"1/4 x EUROK		NC	8
400032CN	12	1"1/4 x EUROK		NC	8

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CI 554 C (1"1/2)



Return manifold with isolation valves with protection cap for thermostatic insert and 3/4" F connections.

Code	Ways	Size	Color	Class	Packaging
560042C	2	1"1/2 x 3/4" F		NC	1
560043C	3	1"1/2 x 3/4" F		NC	1
560044C	4	1"1/2 x 3/4" F		NC	1
560045C	5	1"1/2 x 3/4" F		NC	1
560046C	6	1"1/2 x 3/4" F		NC	1
560047C	7	1"1/2 x 3/4" F		NC	1
560048C	8	1"1/2 x 3/4" F		NC	1
560049C	9	1"1/2 x 3/4" F		NC	1
560050C	10	1"1/2 x 3/4" F		NC	1
560051C	11	1"1/2 x 3/4" F		NC	1
560052C	12	1"1/2 x 3/4" F		NC	1
560053C	13	1"1/2 x 3/4" F		NC	1



It is possible to order these items with manual heads (suffix "M" instead of "C" at the end of the code).



Electrothermal heads >>p. 444



RA 761 / RP 731 (3/4" M) >>p. 110

CI 555 C (1"1/2)



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.

Code	Ways	Size	Color	Class	Packaging
560042SC	2	1"1/2 x 3/4" F		NC	1
560043SC	3	1"1/2 x 3/4" F		NC	1
560044SC	4	1"1/2 x 3/4" F		NC	1
560045SC	5	1"1/2 x 3/4" F		NC	1
560046SC	6	1"1/2 x 3/4" F		NC	1
560047SC	7	1"1/2 x 3/4" F		NC	1
560048SC	8	1"1/2 x 3/4" F		NC	1
560049SC	9	1"1/2 x 3/4" F		NC	1
560050SC	10	1"1/2 x 3/4" F		NC	1
560051SC	11	1"1/2 x 3/4" F		NC	1
560052SC	12	1"1/2 x 3/4" F		NC	1

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BRASS-ROD MANIFOLDS

CS 500

Plain manifold.



Code	Ways	Size	Color	Class	Packaging
500032	2	3/4" x 1/2" F		NA	45
500033	3	3/4" x 1/2" F		NA	30
500034	4	3/4" x 1/2" F		NA	30
500035	5	3/4" x 1/2" F		NA	30
500036	6	3/4" x 1/2" F		NA	20
500037	7	3/4" x 1/2" F		NA	20
500038	8	3/4" x 1/2" F		NA	20
500039	9	3/4" x 1/2" F		NA	20
500040	10	3/4" x 1/2" F		NA	20
500041	11	3/4" x 1/2" F		NA	18
500042	12	3/4" x 1/2" F		NA	18
501402	2	1" x 1/2" F		NA	64
501403	3	1" x 1/2" F		NA	40
501404	4	1" x 1/2" F		NA	32
501405	5	1" x 1/2" F		NA	25
501406	6	1" x 1/2" F		NA	24
501407	7	1" x 1/2" F		NA	15
501408	8	1" x 1/2" F		NA	15
501409	9	1" x 1/2" F		NA	15
501410	10	1" x 1/2" F		NA	15
501411	11	1" x 1/2" F		NA	15
501412	12	1" x 1/2" F		NA	15
501413	13	1" x 1/2" F		NA	15
500792	2	1"1/4 x 1/2" F		NA	10
500793	3	1"1/4 x 1/2" F		NA	10
500794	4	1"1/4 x 1/2" F		NA	10
500795	5	1"1/4 x 1/2" F		NA	8
500796	6	1"1/4 x 1/2" F		NA	8
500797	7	1"1/4 x 1/2" F		NA	10
500798	8	1"1/4 x 1/2" F		NA	10
500799	9	1"1/4 x 1/2" F		NA	8
500800	10	1"1/4 x 1/2" F		NA	8
500801	11	1"1/4 x 1/2" F		NA	8
500802	12	1"1/4 x 1/2" F		NA	8
500803	13	1"1/4 x 1/2" F		NA	8



RA 761 N / RP 731 N (1/2" M) >>p. 110

CS 500 (1"1/2)

Plain manifold.



Code	Ways	Size	Color	Class	Packaging
560022	2	1"1/2 x 3/4" F		NA	1
560023	3	1"1/2 x 3/4" F		NA	1
560024	4	1"1/2 x 3/4" F		NA	1
560025	5	1"1/2 x 3/4" F		NA	1
560026	6	1"1/2 x 3/4" F		NA	1
560027	7	1"1/2 x 3/4" F		NA	1
560028	8	1"1/2 x 3/4" F		NA	1
560029	9	1"1/2 x 3/4" F		NA	1
560030	10	1"1/2 x 3/4" F		NA	1
560031	11	1"1/2 x 3/4" F		NA	1
560032	12	1"1/2 x 3/4" F		NA	1
560033	13	1"1/2 x 3/4" F		NA	1



RA 761 / RP 731 (3/4" M) >>p. 110

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CS 501

Plain manifold with additional connection for air vent valve.



Code	Ways	Size	Color	Class	Packaging
507002	2	1" x 1/2" F		NA	64
507003	3	1" x 1/2" F		NA	48
507004	4	1" x 1/2" F		NA	32
507005	5	1" x 1/2" F		NA	25
507006	6	1" x 1/2" F		NA	24
507007	7	1" x 1/2" F		NA	15
507008	8	1" x 1/2" F		NA	15
507009	9	1" x 1/2" F		NA	15
507010	10	1" x 1/2" F		NA	15
507011	11	1" x 1/2" F		NA	15
507012	12	1" x 1/2" F		NA	15
507013	13	1" x 1/2" F		NA	15
400362	2	1"1/4 x 1/2" F		NA	12
400363	3	1"1/4 x 1/2" F		NA	12
400364	4	1"1/4 x 1/2" F		NA	10
400365	5	1"1/4 x 1/2" F		NA	10
400366	6	1"1/4 x 1/2" F		NA	10
400367	7	1"1/4 x 1/2" F		NA	10
400368	8	1"1/4 x 1/2" F		NA	10
400369	9	1"1/4 x 1/2" F		NA	8
400370	10	1"1/4 x 1/2" F		NA	8
400371	11	1"1/4 x 1/2" F		NA	8
400372	12	1"1/4 x 1/2" F		NA	8
400373	13	1"1/4 x 1/2" F		NA	8



RA 761 N / RP 731 N (1/2" M) >>p. 110

CS 501 (1"1/2)

Plain manifold with additional connection for air vent valve.



Code	Ways	Size	Color	Class	Packaging
560022S	2	1"1/2 x 3/4" F		NA	1
560023S	3	1"1/2 x 3/4" F		NA	1
560024S	4	1"1/2 x 3/4" F		NA	1
560025S	5	1"1/2 x 3/4" F		NA	1
560026S	6	1"1/2 x 3/4" F		NA	1
560027S	7	1"1/2 x 3/4" F		NA	1
560028S	8	1"1/2 x 3/4" F		NA	1
560029S	9	1"1/2 x 3/4" F		NA	1
560030S	10	1"1/2 x 3/4" F		NA	1
560031S	11	1"1/2 x 3/4" F		NA	1
560032S	12	1"1/2 x 3/4" F		NA	1
560033S	13	1"1/2 x 3/4" F		NA	1



RA 761 / RP 731 (3/4" M) >>p. 110

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CS 502

Plain manifold with EUROK connections.



Code	Ways	Size	Color	Class	Packaging
400812	2	3/4 x EUROK		NA	50
400813	3	3/4 x EUROK		NA	38
400814	4	3/4 x EUROK		NA	25
400815	5	3/4 x EUROK		NA	22
400816	6	3/4 x EUROK		NA	18
400817	7	3/4 x EUROK		NA	16
400818	8	3/4 x EUROK		NA	16
400819	9	3/4 x EUROK		NA	14
400820	10	3/4 x EUROK		NA	14
400821	11	3/4 x EUROK		NA	14
400822	12	3/4 x EUROK		NA	14
400392	2	1" x EUROK		NA	35
400393	3	1" x EUROK		NA	28
400394	4	1" x EUROK		NA	20
400395	5	1" x EUROK		NA	15
400396	6	1" x EUROK		NA	15
400397	7	1" x EUROK		NA	12
400398	8	1" x EUROK		NA	12
400399	9	1" x EUROK		NA	12
400400	10	1" x EUROK		NA	12
400401	11	1" x EUROK		NA	10
400402	12	1" x EUROK		NA	10
400403	13	1" x EUROK		NA	10
400432	2	1"1/4 x EUROK		NA	10
400433	3	1"1/4 x EUROK		NA	10
400434	4	1"1/4 x EUROK		NA	8
400435	5	1"1/4 x EUROK		NA	10
400436	6	1"1/4 x EUROK		NA	6
400437	7	1"1/4 x EUROK		NA	6
400438	8	1"1/4 x EUROK		NA	6
400439	9	1"1/4 x EUROK		NA	6
400440	10	1"1/4 x EUROK		NA	6
400441	11	1"1/4 x EUROK		NA	5
400442	12	1"1/4 x EUROK		NA	5
400443	13	1"1/4 x EUROK		NA	5



TA 4420 / TP 4410 >>p. 108

CS 536 B (1"1/2)

Plain manifold with plug and isolation ball valves (blue) on the outlets.



Code	Ways	Size	Color	Class	Packaging
506672B	2	1"1/2 x 3/4" F		N3	1
506673B	3	1"1/2 x 3/4" F		N3	1
506674B	4	1"1/2 x 3/4" F		N3	1
506675B	5	1"1/2 x 3/4" F		N3	1
506676B	6	1"1/2 x 3/4" F		N3	1
506677B	7	1"1/2 x 3/4" F		N3	1
506678B	8	1"1/2 x 3/4" F		N3	1

CS 536 R (1"1/2)

Plain manifold with plug and isolation ball valves (red) on the outlets.



Code	Ways	Size	Color	Class	Packaging
506672R	2	1"1/2 x 3/4" F		N3	1
506673R	3	1"1/2 x 3/4" F		N3	1
506674R	4	1"1/2 x 3/4" F		N3	1
506675R	5	1"1/2 x 3/4" F		N3	1
506676R	6	1"1/2 x 3/4" F		N3	1
506677R	7	1"1/2 x 3/4" F		N3	1
506678R	8	1"1/2 x 3/4" F		N3	1



RA 761 / RP 731 (3/4" M) >>p. 110

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KSA 037 (1"1/2)



Plain manifolds kit with brackets, straight ball valves with fitting, filling/drainage valves, air vent valves, plugs and connections with isolation ball valves.

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
KSA0037B02	2	1"1/2 x 3/4" F	130 mm	500 mm		N3	1
KSA0037B03	3	1"1/2 x 3/4" F	130 mm	500 mm		N3	1
KSA0037B04	4	1"1/2 x 3/4" F	130 mm	600 mm		N3	1
KSA0037B05	5	1"1/2 x 3/4" F	130 mm	600 mm		N3	1
KSA0037B06	6	1"1/2 x 3/4" F	130 mm	700 mm		N3	1
KSA0037B07	7	1"1/2 x 3/4" F	130 mm	700 mm		N3	1
KSA0037B08	8	1"1/2 x 3/4" F	130 mm	800 mm		N3	1
KSA0037B09	9	1"1/2 x 3/4" F	130 mm	800 mm		N3	1
KSA0037B10	10	1"1/2 x 3/4" F	130 mm	900 mm		N3	1
KSA0037B11	11	1"1/2 x 3/4" F	130 mm	900 mm		N3	1
KSA0037B12	12	1"1/2 x 3/4" F	130 mm	1000 mm		N3	1



Cabinet not included >> p. 203



RA 761 / RP 731 (3/4" M) >>p. 110

KSA 035 (1"1/2)



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.

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
KSA0035B02	2	1"1/2 x 3/4" F	120 mm	500 mm		N3	1
KSA0035B03	3	1"1/2 x 3/4" F	120 mm	500 mm		N3	1
KSA0035B04	4	1"1/2 x 3/4" F	120 mm	600 mm		N3	1
KSA0035B05	5	1"1/2 x 3/4" F	120 mm	600 mm		N3	1
KSA0035B06	6	1"1/2 x 3/4" F	120 mm	700 mm		N3	1
KSA0035B07	7	1"1/2 x 3/4" F	120 mm	700 mm		N3	1
KSA0035B08	8	1"1/2 x 3/4" F	120 mm	800 mm		N3	1
KSA0035B09	9	1"1/2 x 3/4" F	120 mm	800 mm		N3	1
KSA0035B10	10	1"1/2 x 3/4" F	120 mm	900 mm		N3	1
KSA0035B11	11	1"1/2 x 3/4" F	120 mm	900 mm		N3	1
KSA0035B12	12	1"1/2 x 3/4" F	120 mm	1000 mm		N3	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



RA 761 / RP 731 (3/4" M) >>p. 110

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CI 562 CN



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.

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
400242CN	2	1" x EUROK	110 mm	500 mm		NC	1
400243CN	3	1" x EUROK	110 mm	500 mm		NC	1
400244CN	4	1" x EUROK	110 mm	500 mm		NC	1
400245CN	5	1" x EUROK	110 mm	500 mm		NC	1
400246CN	6	1" x EUROK	110 mm	600 mm		NC	1
400247CN	7	1" x EUROK	110 mm	600 mm		NC	1
400248CN	8	1" x EUROK	110 mm	700 mm		NC	1
400249CN	9	1" x EUROK	110 mm	700 mm		NC	1
400250CN	10	1" x EUROK	110 mm	800 mm		NC	1
400251CN	11	1" x EUROK	110 mm	800 mm		NC	1
400252CN	12	1" x EUROK	110 mm	900 mm		NC	1
400253CN	13	1" x EUROK	110 mm	900 mm		NC	1
400282CN	2	1"1/4 x EUROK	110 mm	500 mm		NC	1
400283CN	3	1"1/4 x EUROK	110 mm	500 mm		NC	1
400284CN	4	1"1/4 x EUROK	110 mm	500 mm		NC	1
400285CN	5	1"1/4 x EUROK	110 mm	600 mm		NC	1
400286CN	6	1"1/4 x EUROK	110 mm	600 mm		NC	1
400287CN	7	1"1/4 x EUROK	110 mm	700 mm		NC	1
400288CN	8	1"1/4 x EUROK	110 mm	700 mm		NC	1
400289CN	9	1"1/4 x EUROK	110 mm	800 mm		NC	1
400290CN	10	1"1/4 x EUROK	110 mm	800 mm		NC	1
400291CN	11	1"1/4 x EUROK	110 mm	900 mm		NC	1
400292CN	12	1"1/4 x EUROK	110 mm	900 mm		NC	1
400293CN	13	1"1/4 x EUROK	110 mm	1000 mm		NC	1



Cabinet not included >> p. 203



Electrothermal heads >>p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).



It is possible to order these items with manual heads (suffix "MN" instead of "CN" at the end of the code).



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).



It is possible to order 1" manifolds with reduced depth (80 mm) brackets (adding suffix "P80" at the end of the code).

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CI 594 CN



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.

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
500922CN	2	1" x EUROK	110 mm	500 mm		NC	1
500923CN	3	1" x EUROK	110 mm	500 mm		NC	1
500924CN	4	1" x EUROK	110 mm	500 mm		NC	1
500925CN	5	1" x EUROK	110 mm	500 mm		NC	1
500926CN	6	1" x EUROK	110 mm	600 mm		NC	1
500927CN	7	1" x EUROK	110 mm	600 mm		NC	1
500928CN	8	1" x EUROK	110 mm	700 mm		NC	1
500929CN	9	1" x EUROK	110 mm	700 mm		NC	1
500930CN	10	1" x EUROK	110 mm	800 mm		NC	1
500931CN	11	1" x EUROK	110 mm	800 mm		NC	1
500932CN	12	1" x EUROK	110 mm	900 mm		NC	1
400342CN	2	1"1/4 x EUROK	110 mm	500 mm		NC	1
400343CN	3	1"1/4 x EUROK	110 mm	500 mm		NC	1
400344CN	4	1"1/4 x EUROK	110 mm	500 mm		NC	1
400345CN	5	1"1/4 x EUROK	110 mm	600 mm		NC	1
400346CN	6	1"1/4 x EUROK	110 mm	600 mm		NC	1
400347CN	7	1"1/4 x EUROK	110 mm	700 mm		NC	1
400348CN	8	1"1/4 x EUROK	110 mm	700 mm		NC	1
400349CN	9	1"1/4 x EUROK	110 mm	800 mm		NC	1
400350CN	10	1"1/4 x EUROK	110 mm	800 mm		NC	1
400351CN	11	1"1/4 x EUROK	110 mm	900 mm		NC	1
400352CN	12	1"1/4 x EUROK	110 mm	900 mm		NC	1



Cabinet not included >> p. 203



Electrothermal heads >>p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).



It is possible to order these items with manual heads (suffix "MN" instead of "CN" at the end of the code).



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).



It is possible to order 1" manifolds with reduced depth (80 mm) brackets (adding suffix "P80" at the end of the code).

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CI 595 CN



Kit made of flow manifold with flow meters/adjusters FLUXER (1": 0-2.5 l/min*; 1"1/4: 0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets and EUROK connections.



* 0-5 l/min ON REQUEST

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
500082CN	2	1" x EUROK	110 mm	500 mm		NE	1
500083CN	3	1" x EUROK	110 mm	500 mm		NE	1
500084CN	4	1" x EUROK	110 mm	500 mm		NE	1
500085CN	5	1" x EUROK	110 mm	500 mm		NE	1
500086CN	6	1" x EUROK	110 mm	600 mm		NE	1
500087CN	7	1" x EUROK	110 mm	600 mm		NE	1
500088CN	8	1" x EUROK	110 mm	700 mm		NE	1
500089CN	9	1" x EUROK	110 mm	700 mm		NE	1
500090CN	10	1" x EUROK	110 mm	800 mm		NE	1
500091CN	11	1" x EUROK	110 mm	800 mm		NE	1
500092CN	12	1" x EUROK	110 mm	900 mm		NE	1
500093CN	13	1" x EUROK	110 mm	900 mm		NE	1
502142CN	2	1"1/4 x EUROK	110 mm	500 mm		NE	1
502143CN	3	1"1/4 x EUROK	110 mm	500 mm		NE	1
502144CN	4	1"1/4 x EUROK	110 mm	500 mm		NE	1
502145CN	5	1"1/4 x EUROK	110 mm	600 mm		NE	1
502146CN	6	1"1/4 x EUROK	110 mm	600 mm		NE	1
502147CN	7	1"1/4 x EUROK	110 mm	700 mm		NE	1
502148CN	8	1"1/4 x EUROK	110 mm	700 mm		NE	1
502149CN	9	1"1/4 x EUROK	110 mm	800 mm		NE	1
502150CN	10	1"1/4 x EUROK	110 mm	800 mm		NE	1
502151CN	11	1"1/4 x EUROK	110 mm	900 mm		NE	1
502152CN	12	1"1/4 x EUROK	110 mm	900 mm		NE	1
502153CN	13	1"1/4 x EUROK	110 mm	1000 mm		NE	1



Cabinet not included >> p. 203



Electrothermal heads >>p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).



It is possible to order these items with manual heads (suffix "MN" instead of "CN" at the end of the code).



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).



It is possible to order 1" manifolds with reduced depth (80 mm) brackets (adding suffix "P80" at the end of the code).

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CI 596 CN



Kit made of flow manifold with flow meters/adjusters FLUXER (1": 0-2.5 l/min*; 1"1/4: 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.



* 0-5 l/min ON REQUEST

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
502252CN	2	1" x EUROK	110 mm	500 mm		NE	1
502253CN	3	1" x EUROK	110 mm	500 mm		NE	1
502254CN	4	1" x EUROK	110 mm	500 mm		NE	1
502255CN	5	1" x EUROK	110 mm	500 mm		NE	1
502256CN	6	1" x EUROK	110 mm	600 mm		NE	1
502257CN	7	1" x EUROK	110 mm	600 mm		NE	1
502258CN	8	1" x EUROK	110 mm	700 mm		NE	1
502259CN	9	1" x EUROK	110 mm	700 mm		NE	1
502260CN	10	1" x EUROK	110 mm	800 mm		NE	1
502261CN	11	1" x EUROK	110 mm	800 mm		NE	1
502262CN	12	1" x EUROK	110 mm	900 mm		NE	1
502272CN	2	1"1/4 x EUROK	110 mm	500 mm		NE	1
502273CN	3	1"1/4 x EUROK	110 mm	500 mm		NE	1
502274CN	4	1"1/4 x EUROK	110 mm	500 mm		NE	1
502275CN	5	1"1/4 x EUROK	110 mm	600 mm		NE	1
502276CN	6	1"1/4 x EUROK	110 mm	600 mm		NE	1
502277CN	7	1"1/4 x EUROK	110 mm	700 mm		NE	1
502278CN	8	1"1/4 x EUROK	110 mm	700 mm		NE	1
502279CN	9	1"1/4 x EUROK	110 mm	800 mm		NE	1
502280CN	10	1"1/4 x EUROK	110 mm	800 mm		NE	1
502281CN	11	1"1/4 x EUROK	110 mm	900 mm		NE	1
502282CN	12	1"1/4 x EUROK	110 mm	900 mm		NE	1



Cabinet not included >> p. 203



Electrothermal heads >>p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).



It is possible to order these items with manual heads (suffix "MN" instead of "CN" at the end of the code).



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).



It is possible to order 1" manifolds with reduced depth (80 mm) brackets (adding suffix "P80" at the end of the code).

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KC 01 KC (1")



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.

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
507162KC	2	1" x EUROK	80 mm	500 mm		N3	1
507163KC	3	1" x EUROK	80 mm	500 mm		N3	1
507164KC	4	1" x EUROK	80 mm	500 mm		N3	1
507165KC	5	1" x EUROK	80 mm	500 mm		N3	1
507166KC	6	1" x EUROK	80 mm	600 mm		N3	1
507167KC	7	1" x EUROK	80 mm	600 mm		N3	1
507168KC	8	1" x EUROK	80 mm	700 mm		N3	1
507169KC	9	1" x EUROK	80 mm	700 mm		N3	1
507170KC	10	1" x EUROK	80 mm	800 mm		N3	1
507171KC	11	1" x EUROK	80 mm	800 mm		N3	1
507172KC	12	1" x EUROK	80 mm	900 mm		N3	1
507173KC	13	1" x EUROK	80 mm	900 mm		N3	1

KC 01 KC (1"1/4)



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.

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
508162KC	2	1"1/4 x EUROK	110 mm	500 mm		N3	1
508163KC	3	1"1/4 x EUROK	110 mm	500 mm		N3	1
508164KC	4	1"1/4 x EUROK	110 mm	500 mm		N3	1
508165KC	5	1"1/4 x EUROK	110 mm	600 mm		N3	1
508166KC	6	1"1/4 x EUROK	110 mm	600 mm		N3	1
508167KC	7	1"1/4 x EUROK	110 mm	700 mm		N3	1
508168KC	8	1"1/4 x EUROK	110 mm	700 mm		N3	1
508169KC	9	1"1/4 x EUROK	110 mm	800 mm		N3	1
508170KC	10	1"1/4 x EUROK	110 mm	800 mm		N3	1
508171KC	11	1"1/4 x EUROK	110 mm	900 mm		N3	1
508172KC	12	1"1/4 x EUROK	110 mm	900 mm		N3	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108



Ball valves >> p. 218



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).

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KC 02 KC (1")



Kit made of flow manifold with flow meters/adjusters FLUXER (0-2.5 l/min*), return manifold with manually operated isolation valves, brackets, terminals, filling/drainage valves, air vent valves and EUROK connections.



* 0-5 l/min ON REQUEST

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
507182KC	2	1" x EUROK	80 mm	500 mm		N3	1
507183KC	3	1" x EUROK	80 mm	500 mm		N3	1
507184KC	4	1" x EUROK	80 mm	500 mm		N3	1
507185KC	5	1" x EUROK	80 mm	500 mm		N3	1
507186KC	6	1" x EUROK	80 mm	600 mm		N3	1
507187KC	7	1" x EUROK	80 mm	600 mm		N3	1
507188KC	8	1" x EUROK	80 mm	700 mm		N3	1
507189KC	9	1" x EUROK	80 mm	700 mm		N3	1
507190KC	10	1" x EUROK	80 mm	800 mm		N3	1
507191KC	11	1" x EUROK	80 mm	800 mm		N3	1
507192KC	12	1" x EUROK	80 mm	900 mm		N3	1
507193KC	13	1" x EUROK	80 mm	900 mm		N3	1

KC 02 KC (1"1/4)



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.



* 0-5 l/min ON REQUEST

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
508182KC	2	1"1/4 x EUROK	110 mm	500 mm		N3	1
508183KC	3	1"1/4 x EUROK	110 mm	500 mm		N3	1
508184KC	4	1"1/4 x EUROK	110 mm	500 mm		N3	1
508185KC	5	1"1/4 x EUROK	110 mm	600 mm		N3	1
508186KC	6	1"1/4 x EUROK	110 mm	600 mm		N3	1
508187KC	7	1"1/4 x EUROK	110 mm	700 mm		N3	1
508188KC	8	1"1/4 x EUROK	110 mm	700 mm		N3	1
508189KC	9	1"1/4 x EUROK	110 mm	800 mm		N3	1
508190KC	10	1"1/4 x EUROK	110 mm	800 mm		N3	1
508191KC	11	1"1/4 x EUROK	110 mm	900 mm		N3	1
508192KC	12	1"1/4 x EUROK	110 mm	900 mm		N3	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108



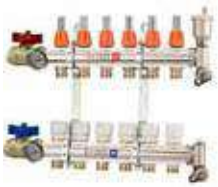
Ball valves >> p. 218



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).

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KC 02 A (1")



Kit made of flow manifold with flow meters/adjusters FLUXER (0-2,5 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.



* 0-5 l/min ON REQUEST

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
507182AIV	2	1" x EUROK	80 mm	500 mm		N3	1
507183AIV	3	1" x EUROK	80 mm	500 mm		N3	1
507184AIV	4	1" x EUROK	80 mm	500 mm		N3	1
507185AIV	5	1" x EUROK	80 mm	500 mm		N3	1
507186AIV	6	1" x EUROK	80 mm	600 mm		N3	1
507187AIV	7	1" x EUROK	80 mm	600 mm		N3	1
507188AIV	8	1" x EUROK	80 mm	700 mm		N3	1
507189AIV	9	1" x EUROK	80 mm	700 mm		N3	1
507190AIV	10	1" x EUROK	80 mm	800 mm		N3	1
507191AIV	11	1" x EUROK	80 mm	800 mm		N3	1
507192AIV	12	1" x EUROK	80 mm	900 mm		N3	1
507193AIV	13	1" x EUROK	80 mm	900 mm		N3	1

KC 02 A (1"1/4)



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.

Code	Ways	Size	Depth	Cabinet width	Color	Class	Packaging
508182AIV	2	1"1/4 x EUROK	110 mm	500 mm		N3	1
508183AIV	3	1"1/4 x EUROK	110 mm	500 mm		N3	1
508184AIV	4	1"1/4 x EUROK	110 mm	500 mm		N3	1
508185AIV	5	1"1/4 x EUROK	110 mm	600 mm		N3	1
508186AIV	6	1"1/4 x EUROK	110 mm	600 mm		N3	1
508187AIV	7	1"1/4 x EUROK	110 mm	700 mm		N3	1
508188AIV	8	1"1/4 x EUROK	110 mm	700 mm		N3	1
508189AIV	9	1"1/4 x EUROK	110 mm	800 mm		N3	1
508190AIV	10	1"1/4 x EUROK	110 mm	800 mm		N3	1
508191AIV	11	1"1/4 x EUROK	110 mm	900 mm		N3	1
508192AIV	12	1"1/4 x EUROK	110 mm	900 mm		N3	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with angle ball valves (suffix "ASIV" instead of "AIV" at the end of the code).



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).

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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 ¾" BSP EUROK branches, they are available with 2 to 16 ways and are perfectly compatible with all the accessories available for the brass rod manifolds.

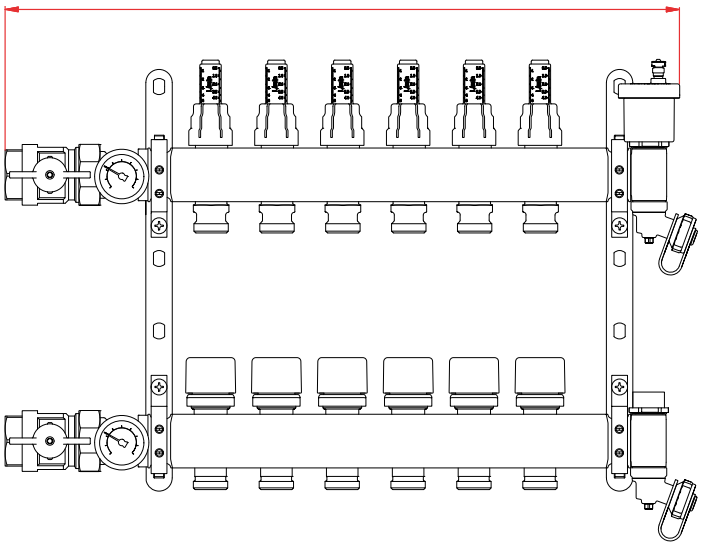
Materials
Body: AISI 304 stainless steel
Seals and O-rings: peroxide EPDM
Shutoff knobs and caps: ABS

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.

Manifolds kit width and suitable cabinet



Manifold	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways	13 Ways
1" stainless steel manifolds kit width	328 mm	378 mm	428 mm	478 mm	528 mm	578 mm	628 mm	678 mm	728 mm	778 mm	828 mm	878 mm
AC 841 E - Cabinet code Cabinet width	200171 500 mm	200171 500 mm	200172 700 mm	200172 700 mm	200172 700 mm	200172 700 mm	200173 900 mm	200173 900 mm	200173 900 mm	200173 900 mm	200174 1.100 mm	200174 1.100 mm
AC 840 - Cabinet code Cabinet width	200086 500 mm	200086 500 mm	200086 600 mm	200086 600 mm	200186 700 mm	200186 700 mm	200786 800 mm	200786 800 mm	200286 900 mm	200286 900 mm	200886 1.000 mm	200886 1.000 mm

Manifold	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways
1"1/4 stainless steel manifolds kit width	352 mm	402 mm	452 mm	502 mm	552 mm	602 mm	652 mm	702 mm	752 mm	802 mm	852 mm
AC 841 E - Cabinet code Cabinet width	200171 500 mm	200171 500 mm	200172 700 mm	200172 700 mm	200172 700 mm	200172 700 mm	200173 900 mm	200173 900 mm	200173 900 mm	200173 900 mm	200174 1.100 mm
AC 840 - Cabinet code Cabinet width	200086 500 mm	200086 500 mm	200686 600 mm	200686 600 mm	200186 700 mm	200186 700 mm	200786 800 mm	200786 800 mm	200286 900 mm	200286 900 mm	200886 1.000 mm

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Examples of application for stainless-steel manifold accessories

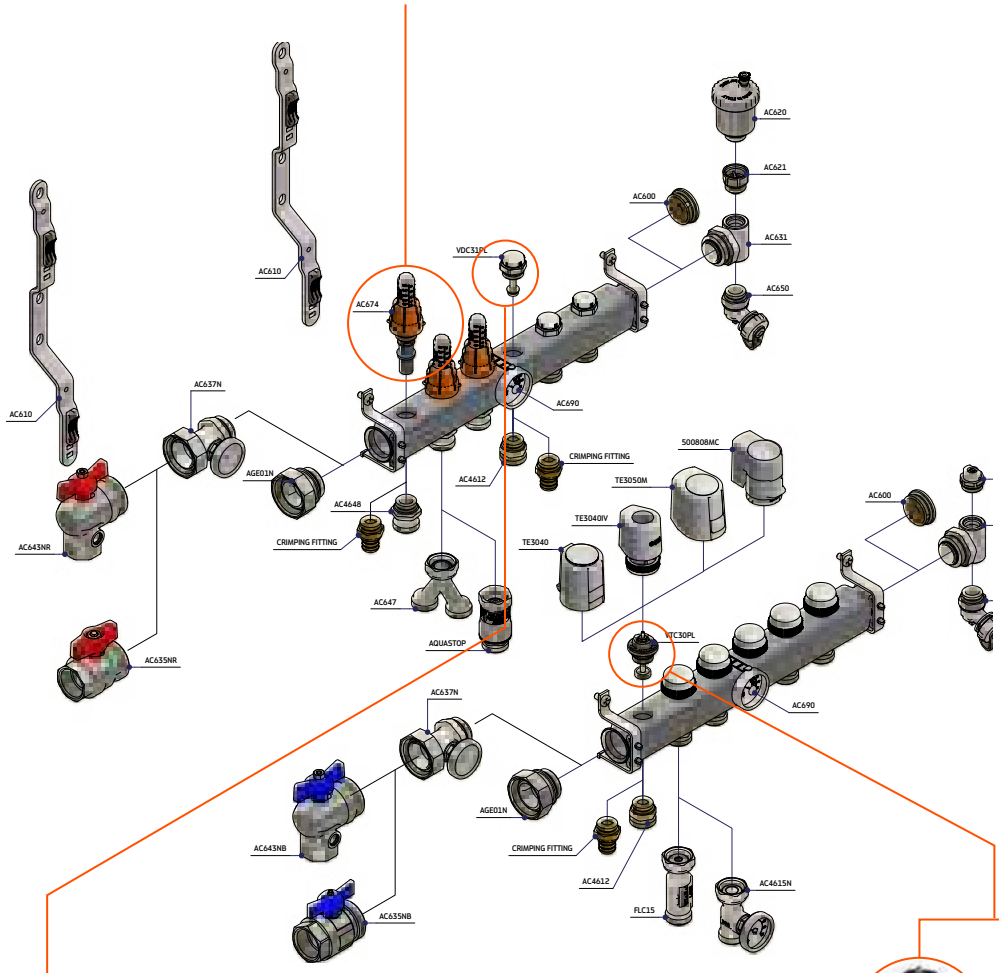


FLUXER 0-2,5 l/m

The maximum flow rate remains the same, but thanks to an adjustment range of 0-2.5 l/min*, the balance of modern radiant systems is even more accurate.

+ **Glass panel replaceable also with system in operation**
+ **Possibility of shutoff and position memory**

**FLUXER 0-2.5 l/min as standard on 1" manifolds; FLUXER 0-5 l/min as standard on 1"1/4 manifolds*



Insert with thermostatic control option

(NEW version with dynamic insert available)
The manifolds with thermostatic control option are supplied with a control knob to protect the thread and possible isolation of the bypass circuit.

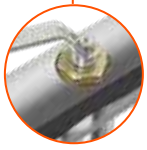


FOCUS
See next page



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.



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The **dynamic balancing cartridges** for manifolds represent a major evolution in IVAR's product range for radiant systems.

In a correctly balanced system, the water is distributed between the various circuits on the basis of the design parameters defined by the technical heating engineer. Typically, balancing at the manifold is static, and the flow meters are set at system commissioning. However, during operation, the system often finds itself in conditions other than those envisaged in the design: circuits opening and closing on the basis of the ambient temperature modify the flow rates even in correctly balanced circuits. Static balancing is not designed to react to the system's operating conditions.

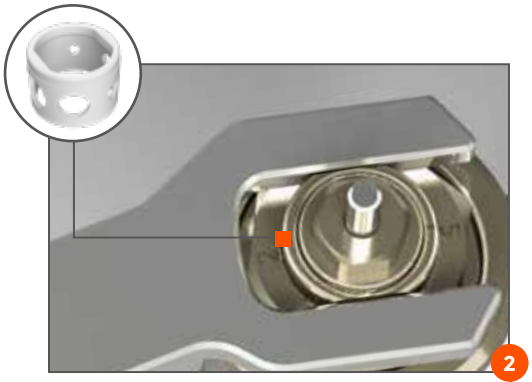
On the other hand, the dynamic balancing cartridges react when the system operating conditions change to maintain the required flow rates in each circuit. This therefore guarantees the correct heat output during operation not only in total load, but also in partial load conditions, with concrete benefits in terms of comfort and energy efficiency. The dynamic balancing cartridges can also be used for shutting off the circuit.

The new dynamic balancing head is made up of three elements:

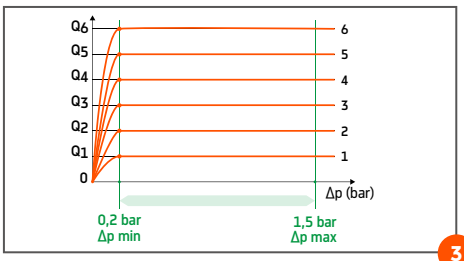
1. **thermostatic insert** which, when combined with an electrothermal head controlled by a room thermostat, allows the opening and closing of each floor circuit;
2. **flow selector** that lets you set the maximum flow rate through the single circuit. The headwork has a selector with 6 positions, one for each a flow rate value;
3. **dynamic insert** to keep the flow rate constant on that circuit regardless of pressure variations in the system, because of opening / closing of the circuits.



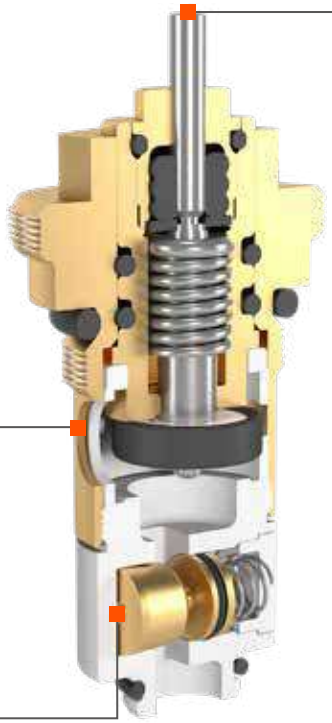
1 Thermostatic insert



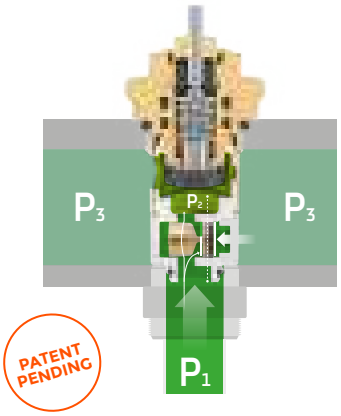
2 Flow selector



3 Dynamic insert



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FOCUS: Dynamic insert

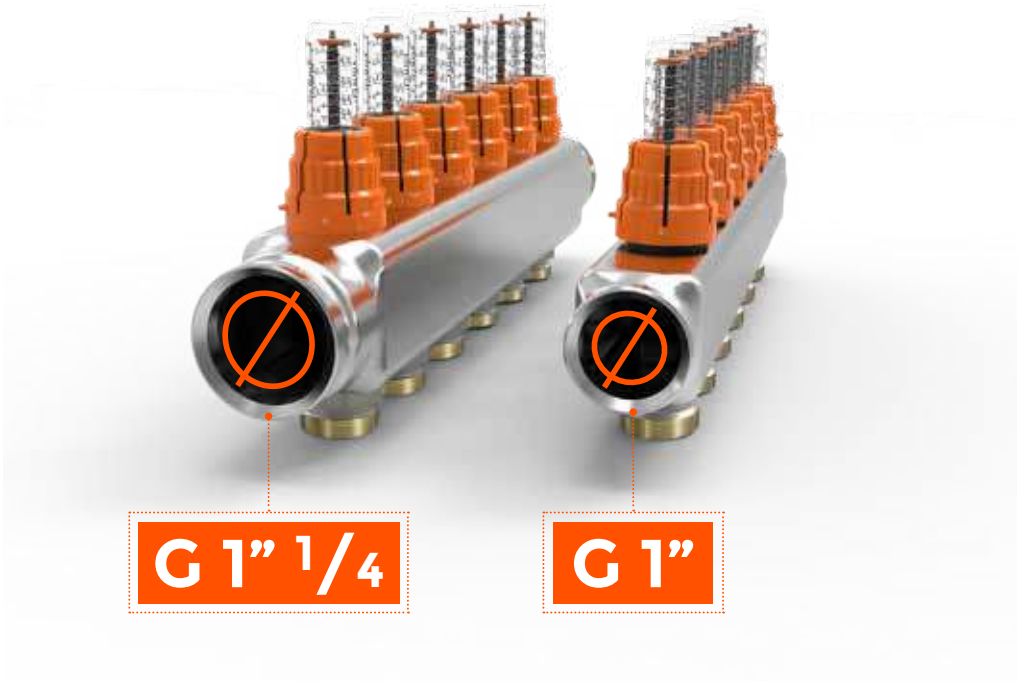
The dynamic insert is a mobile element on which the pressures P1, P3 and the action of a calibrated spring insist: the combined action of these forces and the profile of the insert makes the pressure difference between P2 and P3 (between the thermostatic insert and the calibrated orifice of the flow selector) constant, even in case of pressure variations of P1 or P3. In this way the flow is constant through the single circuit.

It is possible to order manifolds with dynamic balancing inserts:
add suffix "D" at the end of the code >> +14,00€ for each manifold output.

EXAMPLE



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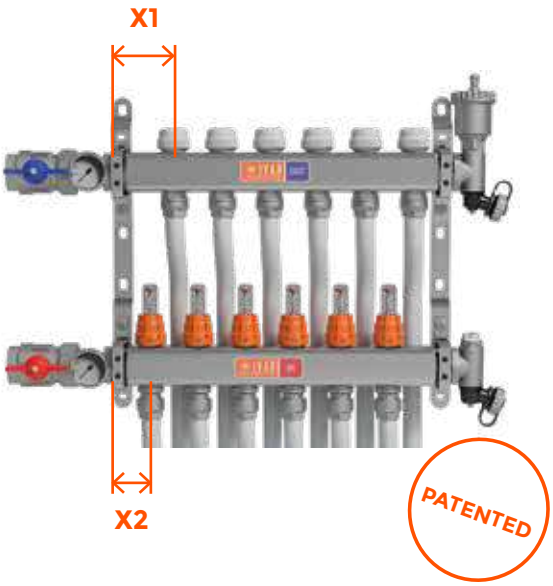


Available with up to 16 OUTPUTS



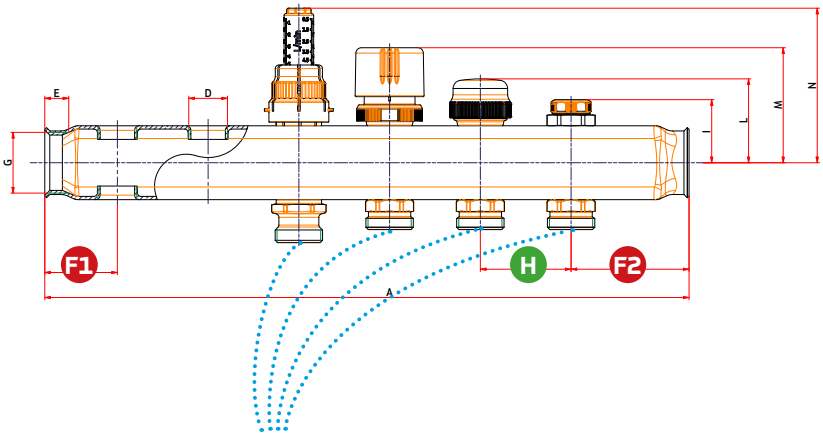
FOCUS: outlets misalignment (for 1” manifolds only)

X1 distance is 65 mm long, while X2 distance is 40 mm long.
Outputs are misaligned and this feature makes the installation of pipes very simple.



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1“ Single manifold dimensions



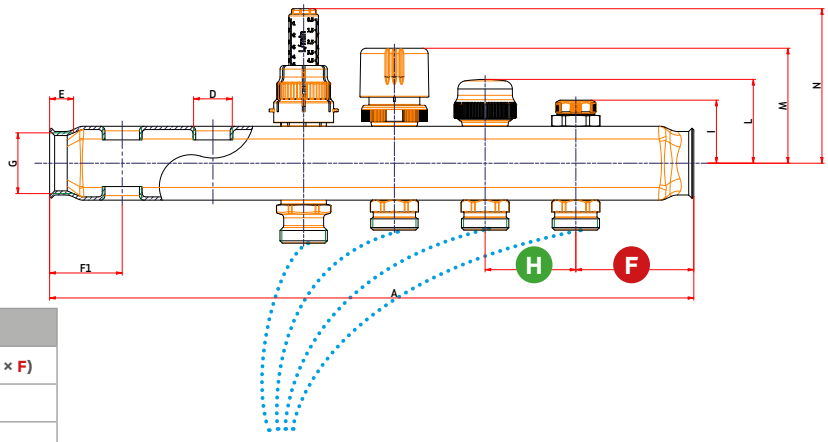
Size	1“
A	(WAYS - 1) × H + F1 + F2
B	EUROK
C	EUROK
D	1/2“ F
E	13 mm
F1	40 mm
F2	65 mm
G	1“
H	50 mm
I	36 mm
L	46,5 mm
M	66,5 mm
N	88 mm

$$A = (WAYS - 1) \times H + F1 + F2$$

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) × H + (2 × 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

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CI 598



Flow manifold with flow meter/adjuster FLUXER (1": 0-2.5 l/min*; 1"1/4: 0-5 l/min) and EUROK connections.



* 0-5 l/min ON REQUEST

Code	Ways	Size	Class	Packaging
503322	2	1" x EUROK	OB	12
503323	3	1" x EUROK	OB	10
503324	4	1" x EUROK	OB	8
503325	5	1" x EUROK	OB	6
503326	6	1" x EUROK	OB	6
503327	7	1" x EUROK	OB	6
503328	8	1" x EUROK	OB	6
503329	9	1" x EUROK	OB	6
503330	10	1" x EUROK	OB	6
503331	11	1" x EUROK	OB	6
503332	12	1" x EUROK	OB	6
503333	13	1" x EUROK	OB	6
503334	14	1" x EUROK	OB	5
503335	15	1" x EUROK	OB	5
503336	16	1" x EUROK	OB	5
503442	2	1"1/4 x EUROK	OB	12
503443	3	1"1/4 x EUROK	OB	12
503444	4	1"1/4 x EUROK	OB	8
503445	5	1"1/4 x EUROK	OB	6
503446	6	1"1/4 x EUROK	OB	6
503447	7	1"1/4 x EUROK	OB	6
503448	8	1"1/4 x EUROK	OB	6
503449	9	1"1/4 x EUROK	OB	6
503450	10	1"1/4 x EUROK	OB	6
503451	11	1"1/4 x EUROK	OB	6
503452	12	1"1/4 x EUROK	OB	5
503453	13	1"1/4 x EUROK	OB	5
503454	14	1"1/4 x EUROK	OB	4
503455	15	1"1/4 x EUROK	OB	4
503456	16	1"1/4 x EUROK	OB	4



TA 4420 / TP 4410 >>p. 108

CI 598 SP



Flow manifold with flow meter/adjuster FLUXER (1": 0-2.5 l/min*; 1"1/4: 0-5 l/min), EUROK connections, additional connections for air vent valve and filling/drainage valve.



* 0-5 l/min ON REQUEST

Code	Ways	Size	Class	Packaging
503382	2	1" x EUROK	OB	10
503383	3	1" x EUROK	OB	8
503384	4	1" x EUROK	OB	6
503385	5	1" x EUROK	OB	6
503386	6	1" x EUROK	OB	6
503387	7	1" x EUROK	OB	6
503388	8	1" x EUROK	OB	6
503389	9	1" x EUROK	OB	6
503390	10	1" x EUROK	OB	6
503391	11	1" x EUROK	OB	6
503392	12	1" x EUROK	OB	6
503393	13	1" x EUROK	OB	5
503394	14	1" x EUROK	OB	5
503395	15	1" x EUROK	OB	5
503462	2	1"1/4 x EUROK	OB	12
503463	3	1"1/4 x EUROK	OB	8
503464	4	1"1/4 x EUROK	OB	6
503465	5	1"1/4 x EUROK	OB	6
503466	6	1"1/4 x EUROK	OB	6
503467	7	1"1/4 x EUROK	OB	6
503468	8	1"1/4 x EUROK	OB	6
503469	9	1"1/4 x EUROK	OB	6
503470	10	1"1/4 x EUROK	OB	6
503471	11	1"1/4 x EUROK	OB	5
503472	12	1"1/4 x EUROK	OB	5
503473	13	1"1/4 x EUROK	OB	4
503474	14	1"1/4 x EUROK	OB	4
503475	15	1"1/4 x EUROK	OB	4

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CI 599

Flow manifold with micrometric dually adjusted lockshields and EUROK connections.



Code	Ways	Size	Class	Packaging
503342	2	1" x EUROK	OB	12
503343	3	1" x EUROK	OB	10
503344	4	1" x EUROK	OB	8
503345	5	1" x EUROK	OB	6
503346	6	1" x EUROK	OB	6
503347	7	1" x EUROK	OB	6
503348	8	1" x EUROK	OB	6
503349	9	1" x EUROK	OB	6
503350	10	1" x EUROK	OB	6
503351	11	1" x EUROK	OB	6
503352	12	1" x EUROK	OB	6
503353	13	1" x EUROK	OB	6
503354	14	1" x EUROK	OB	6
503355	15	1" x EUROK	OB	6
503356	16	1" x EUROK	OB	6
503642	2	1"1/4 x EUROK	OB	12
503643	3	1"1/4 x EUROK	OB	12
503644	4	1"1/4 x EUROK	OB	8
503645	5	1"1/4 x EUROK	OB	6
503646	6	1"1/4 x EUROK	OB	6
503647	7	1"1/4 x EUROK	OB	6
503648	8	1"1/4 x EUROK	OB	6
503649	9	1"1/4 x EUROK	OB	6
503650	10	1"1/4 x EUROK	OB	6
503651	11	1"1/4 x EUROK	OB	6
503652	12	1"1/4 x EUROK	OB	6
503653	13	1"1/4 x EUROK	OB	6
503654	14	1"1/4 x EUROK	OB	5
503655	15	1"1/4 x EUROK	OB	6
503656	16	1"1/4 x EUROK	OB	5



TA 4420 / TP 4410 >>p. 108

CI 599 SP

Flow manifold with micrometric dually adjusted lockshields, EUROK connections, additional connections for air vent valve and filling/ drainage valve.



Code	Ways	Size	Class	Packaging
503402	2	1" x EUROK	OB	10
503403	3	1" x EUROK	OB	8
503404	4	1" x EUROK	OB	6
503405	5	1" x EUROK	OB	6
503406	6	1" x EUROK	OB	6
503407	7	1" x EUROK	OB	6
503408	8	1" x EUROK	OB	6
503409	9	1" x EUROK	OB	6
503410	10	1" x EUROK	OB	6
503411	11	1" x EUROK	OB	6
503412	12	1" x EUROK	OB	6
503413	13	1" x EUROK	OB	6
503414	14	1" x EUROK	OB	6
503415	15	1" x EUROK	OB	6
503662	2	1"1/4 x EUROK	OB	12
503663	3	1"1/4 x EUROK	OB	8
503664	4	1"1/4 x EUROK	OB	6
503665	5	1"1/4 x EUROK	OB	6
503666	6	1"1/4 x EUROK	OB	6
503667	7	1"1/4 x EUROK	OB	6
503668	8	1"1/4 x EUROK	OB	6
503669	9	1"1/4 x EUROK	OB	6
503670	10	1"1/4 x EUROK	OB	6
503671	11	1"1/4 x EUROK	OB	6
503672	12	1"1/4 x EUROK	OB	6
503673	13	1"1/4 x EUROK	OB	5
503674	14	1"1/4 x EUROK	OB	5
503675	15	1"1/4 x EUROK	OB	5

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STAINLESS STEEL MANIFOLDS

CI 583

Return manifold with isolation valves with protection cap for thermostatic insert and EUROK connections.



Code	Ways	Size	Class	Packaging
503182	2	1" x EUROK	OB	12
503183	3	1" x EUROK	OB	10
503184	4	1" x EUROK	OB	8
503185	5	1" x EUROK	OB	6
503186	6	1" x EUROK	OB	6
503187	7	1" x EUROK	OB	6
503188	8	1" x EUROK	OB	6
503189	9	1" x EUROK	OB	6
503190	10	1" x EUROK	OB	6
503191	11	1" x EUROK	OB	6
503192	12	1" x EUROK	OB	6
503193	13	1" x EUROK	OB	6
503194	14	1" x EUROK	OB	6
503195	15	1" x EUROK	OB	6
503196	16	1" x EUROK	OB	6
503482	2	1"1/4 x EUROK	OB	12
503483	3	1"1/4 x EUROK	OB	12
503484	4	1"1/4 x EUROK	OB	8
503485	5	1"1/4 x EUROK	OB	6
503486	6	1"1/4 x EUROK	OB	6
503487	7	1"1/4 x EUROK	OB	6
503488	8	1"1/4 x EUROK	OB	6
503489	9	1"1/4 x EUROK	OB	6
503490	10	1"1/4 x EUROK	OB	6
503491	11	1"1/4 x EUROK	OB	6
503492	12	1"1/4 x EUROK	OB	6
503493	13	1"1/4 x EUROK	OB	6
503494	14	1"1/4 x EUROK	OB	5
503495	15	1"1/4 x EUROK	OB	5
503496	16	1"1/4 x EUROK	OB	5

CI 583 SP

Return manifold with isolation valves with protection cap for thermostatic insert, EUROK connections, additional connections for air vent valve and filling/drainage valve.



Code	Ways	Size	Class	Packaging
503362	2	1" x EUROK	OB	10
503363	3	1" x EUROK	OB	8
503364	4	1" x EUROK	OB	6
503365	5	1" x EUROK	OB	6
503366	6	1" x EUROK	OB	6
503367	7	1" x EUROK	OB	6
503368	8	1" x EUROK	OB	6
503369	9	1" x EUROK	OB	6
503370	10	1" x EUROK	OB	6
503371	11	1" x EUROK	OB	6
503372	12	1" x EUROK	OB	6
503373	13	1" x EUROK	OB	6
503374	14	1" x EUROK	OB	6
503375	15	1" x EUROK	OB	6
514362	2	1"1/4 x EUROK	OB	12
514363	3	1"1/4 x EUROK	OB	8
514364	4	1"1/4 x EUROK	OB	6
514365	5	1"1/4 x EUROK	OB	6
514366	6	1"1/4 x EUROK	OB	6
514367	7	1"1/4 x EUROK	OB	6
514368	8	1"1/4 x EUROK	OB	6
514369	9	1"1/4 x EUROK	OB	6
514370	10	1"1/4 x EUROK	OB	6
514371	11	1"1/4 x EUROK	OB	6
514372	12	1"1/4 x EUROK	OB	6
514373	13	1"1/4 x EUROK	OB	5
514374	14	1"1/4 x EUROK	OB	5
514375	15	1"1/4 x EUROK	OB	5



TA 4420 / TP 4410 >>p. 108



Electrothermal heads >>p. 444



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).

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CS 580

Plain manifold with EUROK connections.



1"1/4 version available on request.

Code	Ways	Size	Class	Packaging
503622	2	1" x EUROK	OA	36
503623	3	1" x EUROK	OA	26
503624	4	1" x EUROK	OA	18
503625	5	1" x EUROK	OA	16
503626	6	1" x EUROK	OA	14
503627	7	1" x EUROK	OA	14
503628	8	1" x EUROK	OA	14
503629	9	1" x EUROK	OA	14
503630	10	1" x EUROK	OA	14
503631	11	1" x EUROK	OA	14
503632	12	1" x EUROK	OA	14
503633	13	1" x EUROK	OA	14

CS 584



Plain manifolds kit with brackets and EUROK connections.

1"1/4 version available on request.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
503502	2	1" x EUROK	110 mm	500 mm	OA	1
503503	3	1" x EUROK	110 mm	500 mm	OA	1
503504	4	1" x EUROK	110 mm	600 mm	OA	1
503505	5	1" x EUROK	110 mm	600 mm	OA	1
503506	6	1" x EUROK	110 mm	700 mm	OA	1
503507	7	1" x EUROK	110 mm	700 mm	OA	1
503508	8	1" x EUROK	110 mm	800 mm	OA	1
503509	9	1" x EUROK	110 mm	800 mm	OA	1
503510	10	1" x EUROK	110 mm	900 mm	OA	1
503511	11	1" x EUROK	110 mm	900 mm	OA	1
503512	12	1" x EUROK	110 mm	1000 mm	OA	1
503513	13	1" x EUROK	110 mm	1000 mm	OA	1



Cabinet not included >> p. 203



TA 4420 / TP 4410 >>p. 108



It is possible to order 1" manifolds with reduced depth (80 mm) brackets (adding suffix "P80" at the end of the code).

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STAINLESS STEEL MANIFOLDS

CI 588 C



1"1/4 version available on request.

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.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
503572	2	1" x EUROK	110 mm	500 mm	OB	1
503573	3	1" x EUROK	110 mm	500 mm	OB	1
503574	4	1" x EUROK	110 mm	600 mm	OB	1
503575	5	1" x EUROK	110 mm	600 mm	OB	1
503576	6	1" x EUROK	110 mm	700 mm	OB	1
503577	7	1" x EUROK	110 mm	700 mm	OB	1
503578	8	1" x EUROK	110 mm	800 mm	OB	1
503579	9	1" x EUROK	110 mm	800 mm	OB	1
503580	10	1" x EUROK	110 mm	900 mm	OB	1
503581	11	1" x EUROK	110 mm	900 mm	OB	1
503582	12	1" x EUROK	110 mm	1000 mm	OB	1
503583	13	1" x EUROK	110 mm	800 mm	OB	1

CI 591 C



1"1/4 version available on request.

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.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
503222	2	1" x EUROK	110 mm	500 mm	OB	1
503223	3	1" x EUROK	110 mm	500 mm	OB	1
503224	4	1" x EUROK	110 mm	600 mm	OB	1
503225	5	1" x EUROK	110 mm	600 mm	OB	1
503226	6	1" x EUROK	110 mm	700 mm	OB	1
503227	7	1" x EUROK	110 mm	700 mm	OB	1
503228	8	1" x EUROK	110 mm	800 mm	OB	1
503229	9	1" x EUROK	110 mm	800 mm	OB	1
503230	10	1" x EUROK	110 mm	900 mm	OB	1
503231	11	1" x EUROK	110 mm	900 mm	OB	1
503232	12	1" x EUROK	110 mm	1000 mm	OB	1
503233	13	1" x EUROK	110 mm	1000 mm	OB	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).



It is possible to order 1" manifolds with reduced depth (80 mm) brackets (adding suffix "P80" at the end of the code).

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CI 590 C



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.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
503282	2	1" x EUROK	110 mm	500 mm	OB	1
503283	3	1" x EUROK	110 mm	500 mm	OB	1
503284	4	1" x EUROK	110 mm	600 mm	OB	1
503285	5	1" x EUROK	110 mm	600 mm	OB	1
503286	6	1" x EUROK	110 mm	700 mm	OB	1
503287	7	1" x EUROK	110 mm	700 mm	OB	1
503288	8	1" x EUROK	110 mm	800 mm	OB	1
503289	9	1" x EUROK	110 mm	800 mm	OB	1
503290	10	1" x EUROK	110 mm	900 mm	OB	1
503291	11	1" x EUROK	110 mm	900 mm	OB	1
503292	12	1" x EUROK	110 mm	1000 mm	OB	1
514282	2	1"1/4 x EUROK	110 mm	500 mm	OB	1
514283	3	1"1/4 x EUROK	110 mm	500 mm	OB	1
514284	4	1"1/4 x EUROK	110 mm	600 mm	OB	1
514285	5	1"1/4 x EUROK	110 mm	600 mm	OB	1
514286	6	1"1/4 x EUROK	110 mm	700 mm	OB	1
514287	7	1"1/4 x EUROK	110 mm	700 mm	OB	1
514288	8	1"1/4 x EUROK	110 mm	800 mm	OB	1
514289	9	1"1/4 x EUROK	110 mm	800 mm	OB	1
514290	10	1"1/4 x EUROK	110 mm	900 mm	OB	1
514291	11	1"1/4 x EUROK	110 mm	900 mm	OB	1
514292	12	1"1/4 x EUROK	110 mm	1000 mm	OB	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).



It is possible to order 1" manifolds with reduced depth (80 mm) brackets (adding suffix "P80" at the end of the code).

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CI 589 C





Kit made of flow manifold with flow meters/adjusters FLUXER (1": 0-2.5 l/min*; 1"1/4: 0-5 l/min), return manifold with isolation valves with protection cap for thermostatic insert, brackets and EUROK connections.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
503202	2	1" x EUROK	110 mm	500 mm	OB	1
503203	3	1" x EUROK	110 mm	500 mm	OB	1
503204	4	1" x EUROK	110 mm	600 mm	OB	1
503205	5	1" x EUROK	110 mm	600 mm	OB	1
503206	6	1" x EUROK	110 mm	700 mm	OB	1
503207	7	1" x EUROK	110 mm	700 mm	OB	1
503208	8	1" x EUROK	110 mm	800 mm	OB	1
503209	9	1" x EUROK	110 mm	800 mm	OB	1
503210	10	1" x EUROK	110 mm	900 mm	OB	1
503211	11	1" x EUROK	110 mm	900 mm	OB	1
503212	12	1" x EUROK	110 mm	1000 mm	OB	1
503213	13	1" x EUROK	110 mm	1000 mm	OB	1
514202	2	1"1/4 x EUROK	110 mm	500 mm	OB	1
514203	3	1"1/4 x EUROK	110 mm	500 mm	OB	1
514204	4	1"1/4 x EUROK	110 mm	600 mm	OB	1
514205	5	1"1/4 x EUROK	110 mm	600 mm	OB	1
514206	6	1"1/4 x EUROK	110 mm	700 mm	OB	1
514207	7	1"1/4 x EUROK	110 mm	700 mm	OB	1
514208	8	1"1/4 x EUROK	110 mm	800 mm	OB	1
514209	9	1"1/4 x EUROK	110 mm	800 mm	OB	1
514210	10	1"1/4 x EUROK	110 mm	900 mm	OB	1
514211	11	1"1/4 x EUROK	110 mm	900 mm	OB	1
514212	12	1"1/4 x EUROK	110 mm	1000 mm	OB	1
514213	13	1"1/4 x EUROK	110 mm	1000 mm	OB	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).



It is possible to order 1" manifolds with reduced depth (80 mm) brackets (adding suffix "P80" at the end of the code).

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CI 592 C



1"1/4 version available on request.



* 0-5 l/min ON REQUEST

Kit made of flow manifold with flow meters/adjusters FLUXER (1": 0-2.5 l/min*; 1"1/4: 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.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
503242	2	1" x EUROK	110 mm	500 mm	OB	1
503243	3	1" x EUROK	110 mm	500 mm	OB	1
503244	4	1" x EUROK	110 mm	600 mm	OB	1
503245	5	1" x EUROK	110 mm	600 mm	OB	1
503246	6	1" x EUROK	110 mm	700 mm	OB	1
503247	7	1" x EUROK	110 mm	700 mm	OB	1
503248	8	1" x EUROK	110 mm	800 mm	OB	1
503249	9	1" x EUROK	110 mm	800 mm	OB	1
503250	10	1" x EUROK	110 mm	900 mm	OB	1
503251	11	1" x EUROK	110 mm	900 mm	OB	1
503252	12	1" x EUROK	110 mm	1000 mm	OB	1
503253	13	1" x EUROK	110 mm	1000 mm	OB	1

CI 587 C



1"1/4 version available on request.



* 0-5 l/min ON REQUEST

Kit made of flow manifold with flow meters/adjusters FLUXER (1": 0-2.5 l/min*; 1"1/4: 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.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
503262	2	1" x EUROK	110 mm	500 mm	OB	1
503263	3	1" x EUROK	110 mm	500 mm	OB	1
503264	4	1" x EUROK	110 mm	600 mm	OB	1
503265	5	1" x EUROK	110 mm	600 mm	OB	1
503266	6	1" x EUROK	110 mm	700 mm	OB	1
503267	7	1" x EUROK	110 mm	700 mm	OB	1
503268	8	1" x EUROK	110 mm	800 mm	OB	1
503269	9	1" x EUROK	110 mm	800 mm	OB	1
503270	10	1" x EUROK	110 mm	900 mm	OB	1
503271	11	1" x EUROK	110 mm	900 mm	OB	1
503272	12	1" x EUROK	110 mm	1000 mm	OB	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).



It is possible to order 1" manifolds with reduced depth (80 mm) brackets (adding suffix "P80" at the end of the code).

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CI 592 KC (1")





Kit made of flow manifold with flow meters/adjusters FLUXER (0-2.5 l/min*), return manifold with isolation valves with protection cap for thermostatic insert, brackets, terminals, filling/drainage valves, air vent valves and EUROK connections.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
503242KC	2	1" x EUROK	80 mm	500 mm	OB	1
503243KC	3	1" x EUROK	80 mm	500 mm	OB	1
503244KC	4	1" x EUROK	80 mm	600 mm	OB	1
503245KC	5	1" x EUROK	80 mm	600 mm	OB	1
503246KC	6	1" x EUROK	80 mm	700 mm	OB	1
503247KC	7	1" x EUROK	80 mm	700 mm	OB	1
503248KC	8	1" x EUROK	80 mm	800 mm	OB	1
503249KC	9	1" x EUROK	80 mm	800 mm	OB	1
503250KC	10	1" x EUROK	80 mm	900 mm	OB	1
503251KC	11	1" x EUROK	80 mm	900 mm	OB	1
503252KC	12	1" x EUROK	80 mm	1000 mm	OB	1
503253KC	13	1" x EUROK	80 mm	1000 mm	OB	1

CI 592 KC (1"1/4)



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.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
514242KC	2	1"1/4 x EUROK	110 mm	500 mm	OB	1
514243KC	3	1"1/4 x EUROK	110 mm	500 mm	OB	1
514244KC	4	1"1/4 x EUROK	110 mm	600 mm	OB	1
514245KC	5	1"1/4 x EUROK	110 mm	600 mm	OB	1
514246KC	6	1"1/4 x EUROK	110 mm	700 mm	OB	1
514247KC	7	1"1/4 x EUROK	110 mm	700 mm	OB	1
514248KC	8	1"1/4 x EUROK	110 mm	800 mm	OB	1
514249KC	9	1"1/4 x EUROK	110 mm	800 mm	OB	1
514250KC	10	1"1/4 x EUROK	110 mm	900 mm	OB	1
514251KC	11	1"1/4 x EUROK	110 mm	900 mm	OB	1
514252KC	12	1"1/4 x EUROK	110 mm	1000 mm	OB	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108



Ball valves >> p. 218



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).

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KCA 02 A (1")



1"1/4 version available on request.



* 0-5 l/min ON REQUEST

Kit made of flow manifold with flow meters/adjusters FLUXER (0-2.5 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.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
503202AIV	2	1" x EUROK	80 mm	500 mm	OB	1
503203AIV	3	1" x EUROK	80 mm	500 mm	OB	1
503204AIV	4	1" x EUROK	80 mm	600 mm	OB	1
503205AIV	5	1" x EUROK	80 mm	600 mm	OB	1
503206AIV	6	1" x EUROK	80 mm	700 mm	OB	1
503207AIV	7	1" x EUROK	80 mm	700 mm	OB	1
503208AIV	8	1" x EUROK	80 mm	800 mm	OB	1
503209AIV	9	1" x EUROK	80 mm	800 mm	OB	1
503210AIV	10	1" x EUROK	80 mm	900 mm	OB	1
503211AIV	11	1" x EUROK	80 mm	900 mm	OB	1
503212AIV	12	1" x EUROK	80 mm	1000 mm	OB	1
503213AIV	13	1" x EUROK	80 mm	1000 mm	OB	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108



It is possible to order these items with angle ball valves (suffix "ASIV" instead of "AIV" at the end of the code).



It is possible to order these items with dynamic balancing inserts (adding suffix "D" at the end of the code).

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CS 656 (1"1/2 | 2")



Plain manifolds kit with brackets, terminals, filling/drainage valves, air vent valves and connections with isolation ball valves.

Code	Ways	Size	Class	Packaging
510402	2	1"1/2 x 3/4" F	OB	1
510403	3	1"1/2 x 3/4" F	OB	1
510404	4	1"1/2 x 3/4" F	OB	1
510405	5	1"1/2 x 3/4" F	OB	1
510406	6	1"1/2 x 3/4" F	OB	1
510407	7	1"1/2 x 3/4" F	OB	1
510408	8	1"1/2 x 3/4" F	OB	1
510409	9	1"1/2 x 3/4" F	OB	1
510410	10	1"1/2 x 3/4" F	OB	1
510411	11	1"1/2 x 3/4" F	OB	1
510412	12	1"1/2 x 3/4" F	OB	1
51040225	2	1"1/2 x 1" F	OB	1
51040325	3	1"1/2 x 1" F	OB	1
51040425	4	1"1/2 x 1" F	OB	1
51040525	5	1"1/2 x 1" F	OB	1
51040625	6	1"1/2 x 1" F	OB	1
51040725	7	1"1/2 x 1" F	OB	1
51040825	8	1"1/2 x 1" F	OB	1
51040925	9	1"1/2 x 1" F	OB	1
51041025	10	1"1/2 x 1" F	OB	1
51041125	11	1"1/2 x 1" F	OB	1
51041225	12	1"1/2 x 1" F	OB	1
510462	2	2" x 3/4" F	OB	1
510463	3	2" x 3/4" F	OB	1
510464	4	2" x 3/4" F	OB	1
510465	5	2" x 3/4" F	OB	1
510466	6	2" x 3/4" F	OB	1
510467	7	2" x 3/4" F	OB	1
510468	8	2" x 3/4" F	OB	1
510469	9	2" x 3/4" F	OB	1
510470	10	2" x 3/4" F	OB	1
510471	11	2" x 3/4" F	OB	1
510472	12	2" x 3/4" F	OB	1
51046225	2	2" x 1" F	OB	1
51046325	3	2" x 1" F	OB	1
51046425	4	2" x 1" F	OB	1
51046525	5	2" x 1" F	OB	1
51046625	6	2" x 1" F	OB	1
51046725	7	2" x 1" F	OB	1
51046825	8	2" x 1" F	OB	1
51046925	9	2" x 1" F	OB	1
51047025	10	2" x 1" F	OB	1
51047125	11	2" x 1" F	OB	1
51047225	12	2" x 1" F	OB	1



RA 761 / RP 731 >>p. 110

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CS 658 (1"1/2 | 2")



Kit made of flow manifold with lockshields, return manifold with isolation valves with protection cap for thermostatic insert, brackets, terminals, filling/drainage valves and air vent valves.

Code	Ways	Size	Class	Packaging
510442	2	1"1/2 x 1" F	OB	1
510443	3	1"1/2 x 1" F	OB	1
510444	4	1"1/2 x 1" F	OB	1
510445	5	1"1/2 x 1" F	OB	1
510446	6	1"1/2 x 1" F	OB	1
510447	7	1"1/2 x 1" F	OB	1
510448	8	1"1/2 x 1" F	OB	1
510449	9	1"1/2 x 1" F	OB	1
510450	10	1"1/2 x 1" F	OB	1
510451	11	1"1/2 x 1" F	OB	1
510452	12	1"1/2 x 1" F	OB	1
510482	2	2" x 1" F	OB	1
510483	3	2" x 1" F	OB	1
510484	4	2" x 1" F	OB	1
510485	5	2" x 1" F	OB	1
510486	6	2" x 1" F	OB	1
510487	7	2" x 1" F	OB	1
510488	8	2" x 1" F	OB	1
510489	9	2" x 1" F	OB	1
510490	10	2" x 1" F	OB	1
510491	11	2" x 1" F	OB	1
510492	12	2" x 1" F	OB	1



RA 761 / RP 731 >> p. 110



Electrothermal heads >>p. 444

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TECHNOPOLYMER MANIFOLDS

The monobloc polymer manifold is designed for underfloor heating and cooling systems. Made from high-performance, technologically advanced materials, it features new high-sensitivity flow regulators that ensure rapid circuit balancing with minimal pressure drops and total circuit closure.

The electrothermal actuators can be housed on the return segment. The manifold is equipped with two special shut-off valves with integrated thermometer and loading/unloading unit; thanks to its extremely small size, it is easy to install in limited spaces (boxes with a depth of 80 mm).

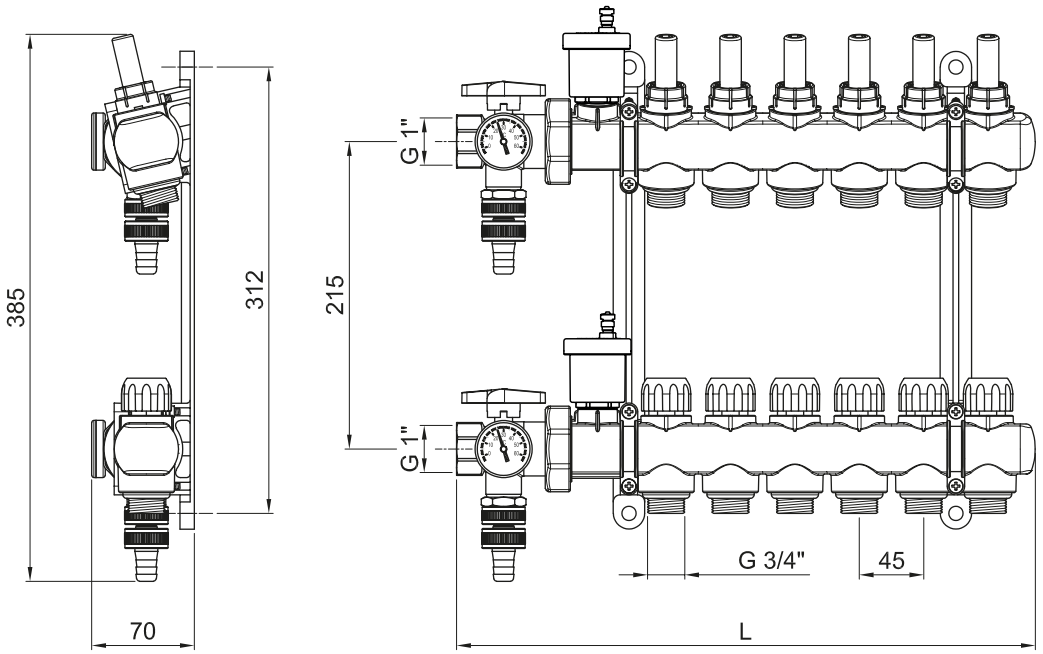
Kit consisting of a polymer delivery manifold with flow meters and a polymer return manifold with manually operated shut-off valves.

Technical characteristics
Maximum glycol percentage: 50%
Standard operating pressure: 1.5 ÷ 2.5 bar
Maximum operating pressure: 6 bar
Test pressure: 8 bar
Temperature range: 4 ÷ 70°C
Main connections: 1" F
Branches: Eurok
Branch centre distance: 45 mm
Box depth: 80 mm

+ PLUS

- Available with 2 to 12 outlets with Eurokonus connections, in the 1" version.
- Suitable for both heating and cooling applications.
- Assembled using automated processes and tested individually.
- Supplied in flow (F) / return (R) kits.

Manifolds kit width and suitable cabinet



Manifold	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways
1" technopolymer manifolds kit width	225 mm	270 mm	315 mm	360 mm	405 mm	450 mm	495 mm	540 mm	585 mm	630 mm	675 mm
AC 841 E - Cabinet code Cabinet width	200171 500 mm	200171 500 mm	200171 500 mm	200171 500 mm	200171 500 mm	200172 700 mm	200172 700 mm	200172 700 mm	200172 700 mm	200173 900 mm	200173 900 mm
AC 840 - Cabinet code Cabinet width	200086 500 mm	200086 500 mm	200086 500 mm	200086 500 mm	200086 500 mm	200686 600 mm	200686 600 mm	200186 700 mm	200186 700 mm	200786 800 mm	200786 800 mm

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1. Valve 1”
2. Gasket
3. Flow manifold
4. Flow meter
5. Fill and drain valve
6. Thermometer
7. Air vent valve
8. Return manifold
9. Bracket

CP 003 (1”)



Kit made of flow manifold with flow meters/adjusters FLUXER (0-2.5 l/min), return manifold with manually operated isolation valves, brackets, ball valves, thermometers, filling/drainage valves, automatic air vent valves, incorporated plugs and EUROK connections.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
400722	2	1” x EUROK	80 mm	500 mm	NV	1
400723	3	1” x EUROK	80 mm	500 mm	NV	1
400724	4	1” x EUROK	80 mm	500 mm	NV	1
400725	5	1” x EUROK	80 mm	500 mm	NV	1
400726	6	1” x EUROK	80 mm	500 mm	NV	1
400727	7	1” x EUROK	80 mm	600 mm	NV	1
400728	8	1” x EUROK	80 mm	600 mm	NV	1
400729	9	1” x EUROK	80 mm	700 mm	NV	1
400730	10	1” x EUROK	80 mm	700 mm	NV	1
400731	11	1” x EUROK	80 mm	800 mm	NV	1
400732	12	1” x EUROK	80 mm	800 mm	NV	1

CP 003 M (1”)



Kit made of flow manifold with flow meters/adjusters FLUXER (0-2.5 l/min), return manifold with manually operated isolation valves, brackets, ball valves, thermometers, filling/drainage valves, manual air vent valves, incorporated plugs and EUROK connections.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
400722M	2	1” x EUROK	80 mm	500 mm	NV	1
400723M	3	1” x EUROK	80 mm	500 mm	NV	1
400724M	4	1” x EUROK	80 mm	500 mm	NV	1
400725M	5	1” x EUROK	80 mm	500 mm	NV	1
400726M	6	1” x EUROK	80 mm	500 mm	NV	1
400727M	7	1” x EUROK	80 mm	600 mm	NV	1
400728M	8	1” x EUROK	80 mm	600 mm	NV	1
400729M	9	1” x EUROK	80 mm	700 mm	NV	1
400730M	10	1” x EUROK	80 mm	700 mm	NV	1
400731M	11	1” x EUROK	80 mm	800 mm	NV	1
400732M	12	1” x EUROK	80 mm	800 mm	NV	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



TA 4420 / TP 4410 >>p. 108

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CP 001 polymer manifolds are 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"1/4 version, complete with Fluxer (0-5 l/min) for flow rate control and inserts with option of thermostat control on the return manifold.

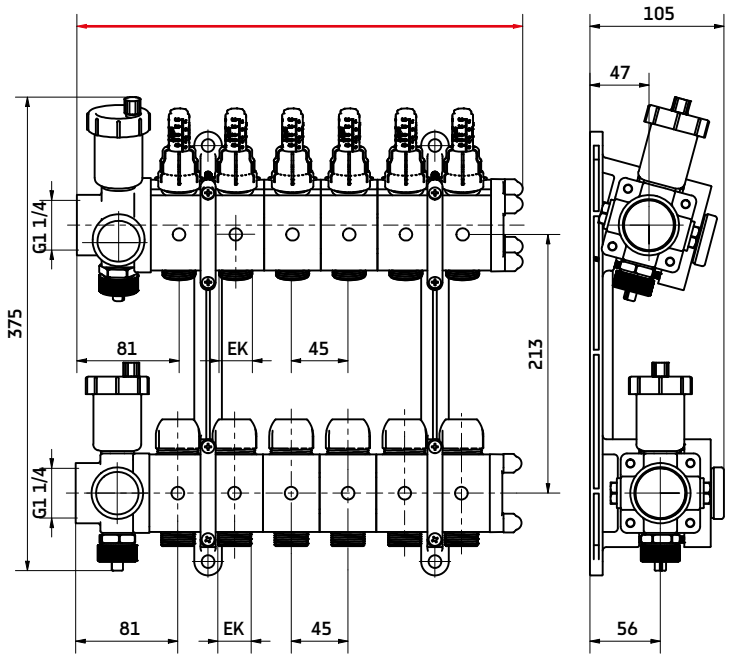
Materials
Body: PAS777
Seals and O-rings: peroxide EPDM
Shutoff knobs and caps: ABS

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	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways	13 Ways	14 Ways	15 Ways	16 Ways
1"1/4 technopolymer manifolds kit width	175 mm	220 mm	265 mm	310 mm	355 mm	400 mm	445 mm	490 mm	535 mm	580 mm	625 mm	670 mm	715 mm	760 mm	805 mm
AC 840 Cabinet code Cabinet width	200086 500 mm	200086 500 mm	200086 500 mm	200086 500 mm	200086 500 mm	200686 600 mm	200686 600 mm	200186 700 mm	200186 700 mm	200786 800 mm	200786 800 mm	200286 900 mm	200286 900 mm	200886 1000 mm	200886 1000 mm

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CP 001 (1"1/4)



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, automatic air vent valves, incorporated plugs and EUROK connections.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
410702	2	1"1/4 x EUROK	105 mm	500 mm	NV	1
410703	3	1"1/4 x EUROK	105 mm	500 mm	NV	1
410704	4	1"1/4 x EUROK	105 mm	500 mm	NV	1
410705	5	1"1/4 x EUROK	105 mm	500 mm	NV	1
410706	6	1"1/4 x EUROK	105 mm	500 mm	NV	1
410707	7	1"1/4 x EUROK	105 mm	600 mm	NV	1
410708	8	1"1/4 x EUROK	105 mm	600 mm	NV	1
410709	9	1"1/4 x EUROK	105 mm	700 mm	NV	1
410710	10	1"1/4 x EUROK	105 mm	700 mm	NV	1
410711	11	1"1/4 x EUROK	105 mm	800 mm	NV	1
410712	12	1"1/4 x EUROK	105 mm	800 mm	NV	1
410713	13	1"1/4 x EUROK	105 mm	900 mm	NV	1
410714	14	1"1/4 x EUROK	105 mm	900 mm	NV	1
410715	15	1"1/4 x EUROK	105 mm	1000 mm	NV	1
410716	16	1"1/4 x EUROK	105 mm	1000 mm	NV	1

CP 001 M (1"1/4)



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, manual air vent valves, incorporated plugs and EUROK connections.

Code	Ways	Size	Depth	Cabinet width	Class	Packaging
410702M	2	1"1/4 x EUROK	105 mm	500 mm	NV	1
410703M	3	1"1/4 x EUROK	105 mm	500 mm	NV	1
410704M	4	1"1/4 x EUROK	105 mm	500 mm	NV	1
410705M	5	1"1/4 x EUROK	105 mm	500 mm	NV	1
410706M	6	1"1/4 x EUROK	105 mm	500 mm	NV	1
410707M	7	1"1/4 x EUROK	105 mm	600 mm	NV	1
410708M	8	1"1/4 x EUROK	105 mm	600 mm	NV	1
410709M	9	1"1/4 x EUROK	105 mm	700 mm	NV	1
410710M	10	1"1/4 x EUROK	105 mm	700 mm	NV	1
410711M	11	1"1/4 x EUROK	105 mm	800 mm	NV	1
410712M	12	1"1/4 x EUROK	105 mm	800 mm	NV	1
410713M	13	1"1/4 x EUROK	105 mm	900 mm	NV	1
410714M	14	1"1/4 x EUROK	105 mm	900 mm	NV	1
410715M	15	1"1/4 x EUROK	105 mm	1000 mm	NV	1
410716M	16	1"1/4 x EUROK	105 mm	1000 mm	NV	1



Cabinet not included >> p. 203



Electrothermal heads >> p. 444



Ball valves >>p. 218



TA 4420 / TP 4410 >>p. 108

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COPLANAR MANIFOLDS

Coplanar manifolds integrate the flow and return manifold in a single component: they are therefore particularly compact and frequently used in traditional radiator heating systems, often in combination with a zone valve where there is a separate zone system.

Innovative and patented, the CC 00 coplanar manifold has important advantages compared to traditional coplanar manifolds: the design of the component has been particularly cared for so that the main ducts are completely empty and have no crossing tubes; this characteristic gives very low pressure drops and avoids possible mixing between flow and return due to imperfect sealing, typical of crossing tubes.

The manifold is made of cast brass and is 100% tested by means of air tests to verify the absence of porosity or micro-blooding that may be the cause of any leaks.

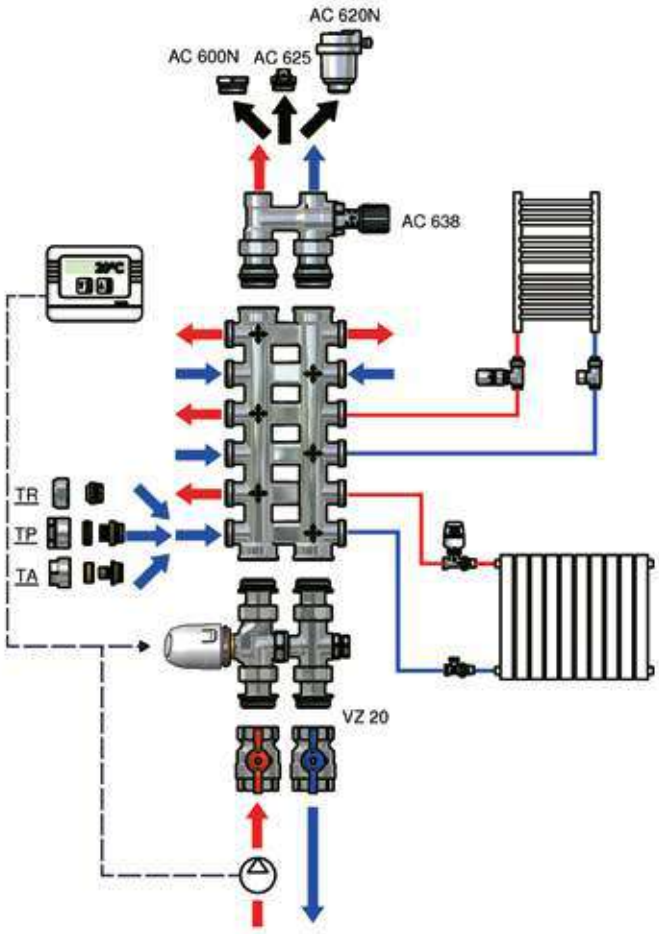
The coplanar manifold is also characterised by the absence of offset between flow and return, making it particularly compact in depth and easy to install in reduced thicknesses (less than 40 mm for size ¾ and less than 50 mm for size 1").

They are available in versions from 4 + 4 up to 12 + 12 branches and allow connection with various types of pipe (copper, polyethylene, multilayer, etc.), using the appropriate fittings. They are also further modular with the help of soft-seal swivel nipples.

They are completed with a range of dedicated accessories such as zone valves, overpressure bypasses with connections for connecting air release valves.

Materials
Body: brass CB753S

Technical specifications
Max. fluid temperature: 120 °C
Maximum operating pressure: 10 bar



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CC 00



Coplanar monoblock manifold.

Code	Ways	Size	Class	Packaging
502200	4	3/4" x EUROK	NQ	1
502202	6	3/4" x EUROK	NQ	1
502204	8	3/4" x EUROK	NQ	1
502201	4	1" x EUROK	NQ	1
502203	6	1" x EUROK	NQ	1
502205	8	1" x EUROK	NQ	1
502207	10	1" x EUROK	NQ	1



Cabinet not included >>p. 205



Ball valves >> p. 218



TA 4420 / TP 4410 >>p. 108

VZ 20



Zone valve with adjustable bypass and memorized settings for monoblock coplanar manifolds.

Code	Size	Class	Packaging
550705	3/4"	NY	1 / 10
550706	1"	NY	1 / 10



Electrothermal heads >>p. 444

AC 638

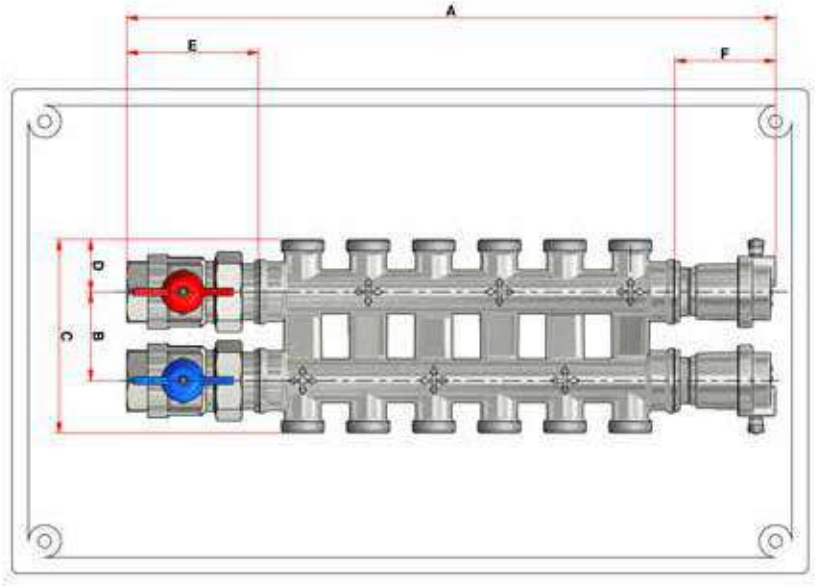


Adjustible bypass differential valve for monoblock coplanar manifolds.

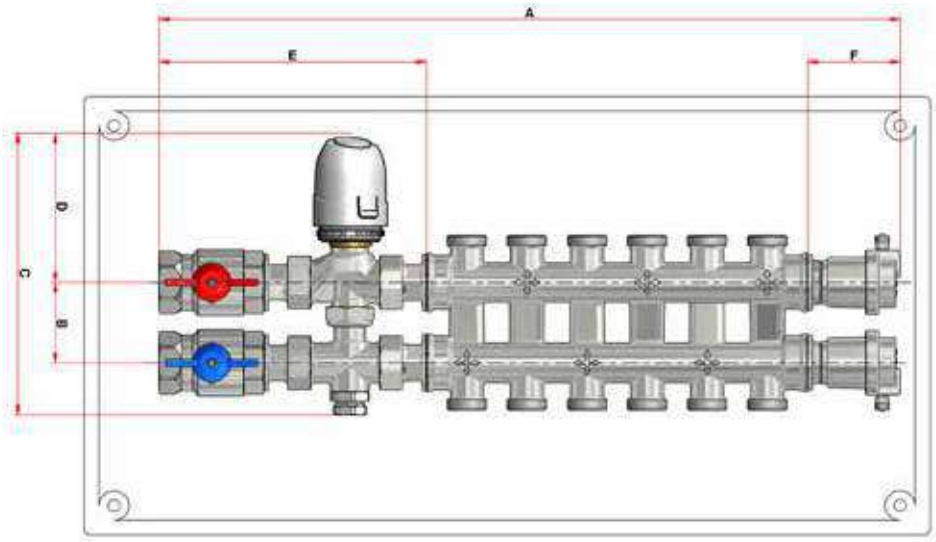
Code	Size	Range	Class	Packaging
507015	3/4"	0,2-0,6 bar	NJ	1 / 10
507016	1"	0,2-0,6 bar	NJ	1 / 10

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COPLANAR MANIFOLDS

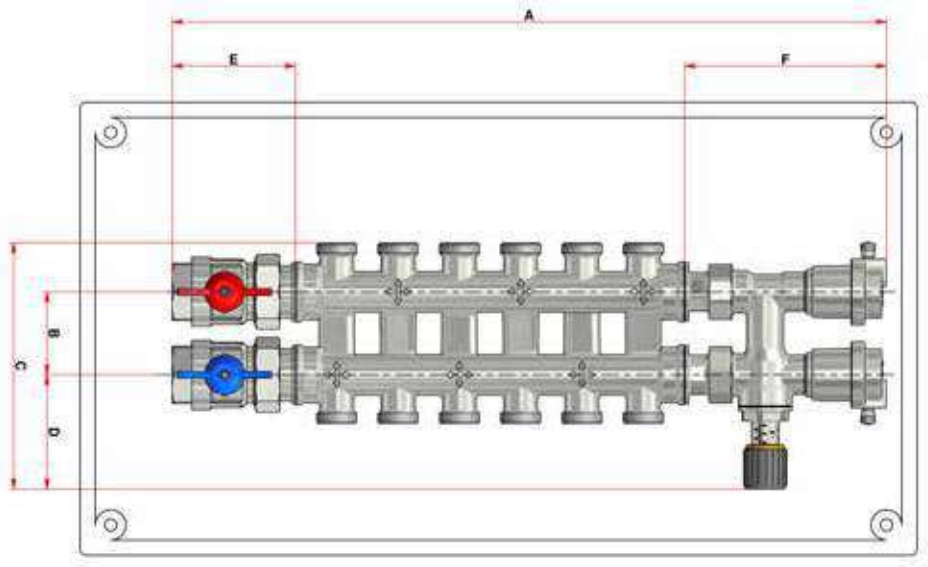


WAYS	A	B	C	D	E	F	Suitable cabinet (AC 850)	Suitable cabinet (AC 852)
2	225	55	120	32,5	81	62	SAM-032	SAM-135
4	320	55	120	32,5	81	62	SAM-040	SAM-150
6	400	55	120	32,5	81	62	SAM-050	SAM-150
8	480	55	120	32,5	81	62	SAM-060	SAM-165
10	560	55	120	32,5	81	62	SAM-060	SAM-165
12	640	55	120	32,5	81	62	/	SAM-180

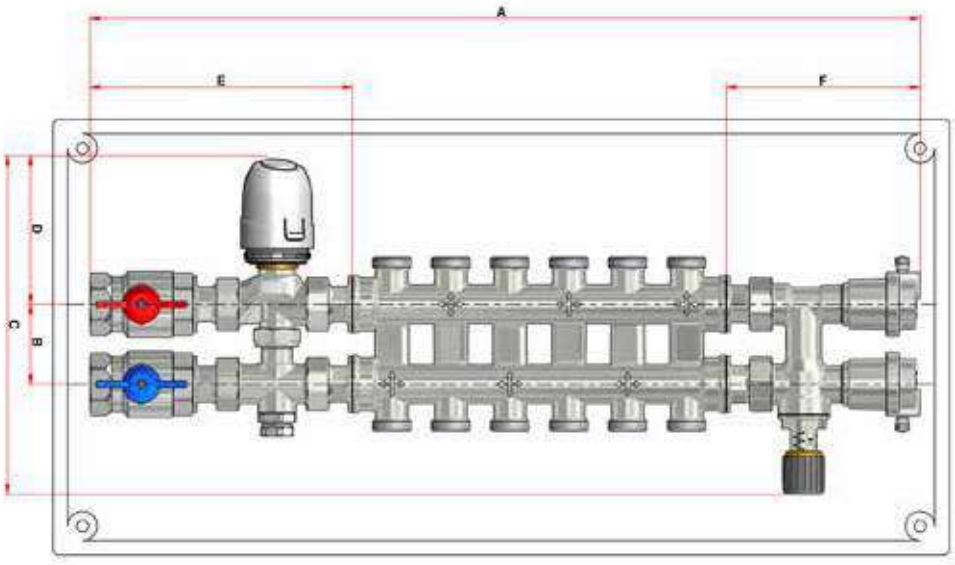


WAYS	A	B	C	D	E	F	Suitable cabinet (AC 850)	Suitable cabinet (AC 852)
2	330	55	184	103	178	62	SAM-040	SAM-150
4	415	55	184	103	178	62	SAM-050	SAM-150
6	495	55	184	103	178	62	SAM-060	SAM-165
8	575	55	184	103	178	62	SAM-060	SAM-165
10	655	55	184	103	178	62	/	SAM-180
12	735	55	184	103	178	62	/	SAM-180

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WAYS	A	B	C	D	E	F	Suitable cabinet (AC 850)	Suitable cabinet (AC 852)
2	305	55	164	76	81	132	SAM-040	SAM-150
4	390	55	164	76	81	132	SAM-050	SAM-150
6	470	55	164	76	81	132	SAM-050	SAM-165
8	550	55	164	76	81	132	SAM-060	SAM-165
10	630	55	164	76	81	132	/	SAM-180
12	710	55	164	76	81	132	/	SAM-180



WAYS	A	B	C	D	E	F	Suitable cabinet (AC 850)	Suitable cabinet (AC 852)
2	400	55	223	103	178	132	SAM-050	SAM-150
4	485	55	223	103	178	132	SAM-060	SAM-165
6	565	55	223	103	178	132	SAM-060	SAM-165
8	645	55	223	103	178	132	/	SAM-180
10	725	55	223	103	178	132	/	SAM-180
12	715	55	223	103	178	132	/	SAM-180 (without ball valves)

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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

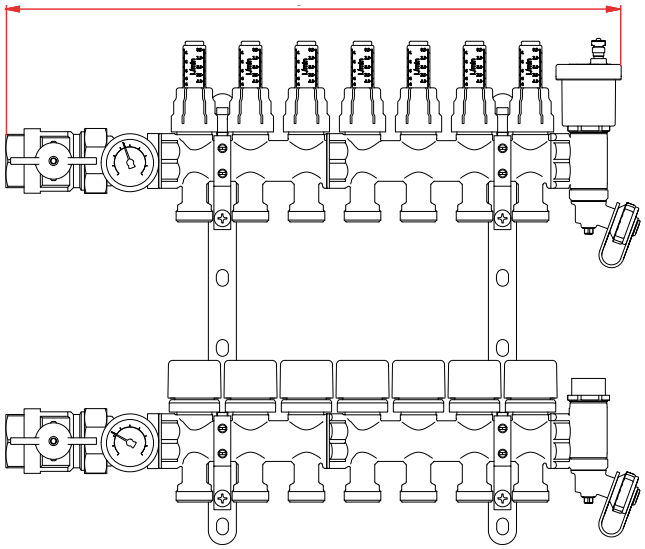
Technical specifications
Max. fluid temperature inside manifold: 90 °C
Maximum operating pressure: 10 bar
Outlet centre-to-centre distance: 40 mm

+ 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	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways	13 Ways
EASY-RADIANT 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
AC 841 E - Cabinet code Cabinet width	200171 500 mm	200171 500 mm	200171 500 mm	200171 500 mm	200172 700 mm	200172 700 mm	200172 700 mm	200172 700 mm	200172 700 mm	200173 900 mm	200173 900 mm
AC 840 - Cabinet code Cabinet width	200086 500 mm	200086 500 mm	200086 500 mm	200086 500 mm	200686 600 mm	200686 600 mm	200186 700 mm	200186 700 mm	200186 700 mm	200786 800 mm	200786 800 mm

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Examples of application for EASY•RADIANT manifolds accessories

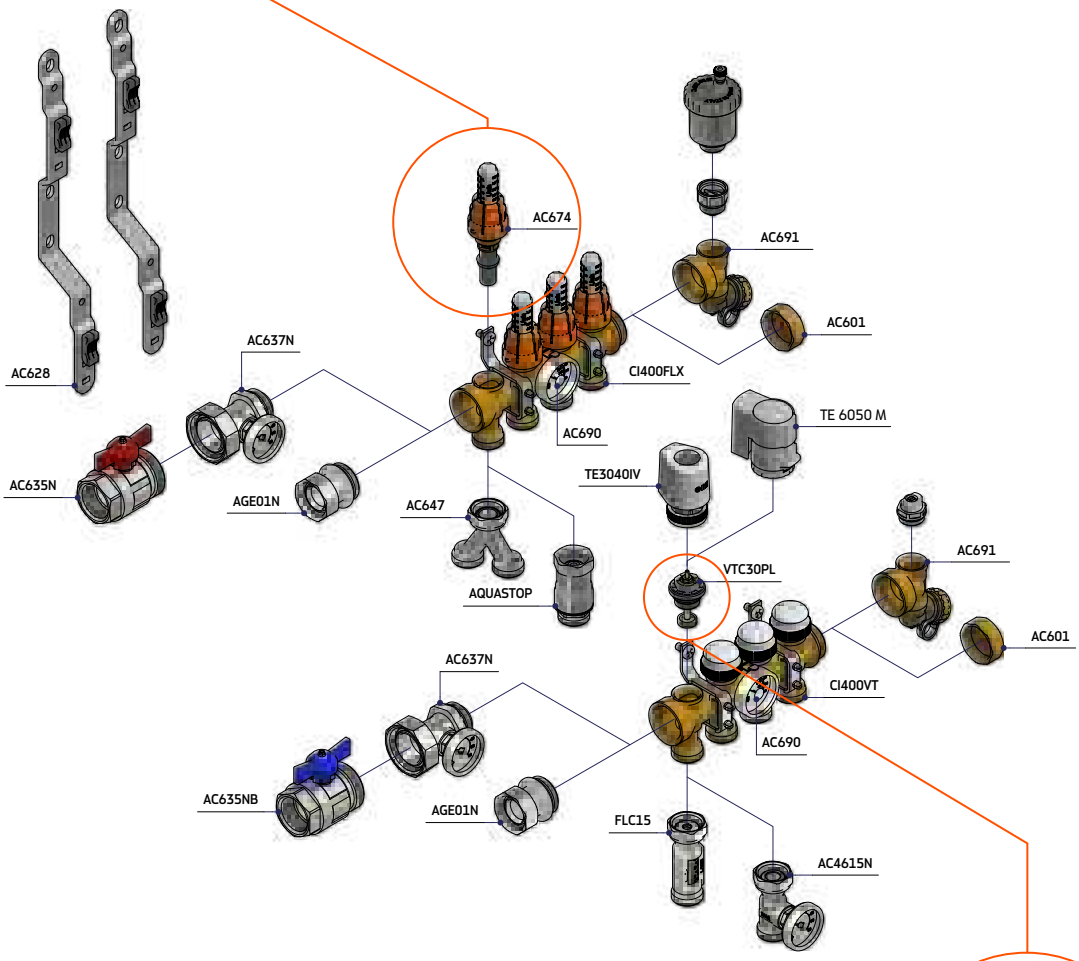


FLUXER 0-2,5 l/m

The maximum flow rate remains the same, but thanks to an adjustment range of 0-2.5 l/min*, the balance of modern radiant systems is even more accurate.

+ **Glass panel replaceable also with system in operation**
+ **Possibility of shutoff and position memory**

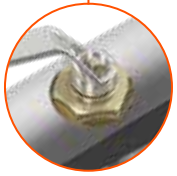
**FLUXER 0-2.5 l/min as standard on 1" manifolds; FLUXER 0-5 l/min as standard on 1"1/4 manifolds*



Insert with thermostatic control option
The manifolds with thermostatic 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.



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MODULAR MANIFOLDS EASY•RADIANT

CI 400 KC



EASY RADIANT kit (centre-to-centre distance 40 mm) made of modular flow manifold with flow meters/adjusters FLUXER (0-2.5 l/min), modular return manifold with isolation valves with protection cap for thermostatic insert and EUROK connections.

Code	Ways	Size	OC distance	Color	Class	Packaging
506875	3	1" x EUROK	40 mm		OH	1 / 8
506876	4	1" x EUROK	40 mm		OH	1 / 8
506877	5	1" x EUROK	40 mm		OH	1 / 8

CI 400 FLX



Modular flow manifold EASY RADIANT series (centre-to-centre distance 40 mm) with flow meter/adjuster FLUXER (0-2.5 l/min) and EUROK connections.

Code	Ways	Size	OC distance	Color	Class	Packaging
506862	3	1" x EUROK	40 mm		OH	18
506863	4	1" x EUROK	40 mm		OH	15
506864	5	1" x EUROK	40 mm		OH	15

CI 400 VT



Modular return manifold EASY RADIANT series (centre-to-centre distance 40 mm) with isolation valves with protection cap for thermostatic insert and EUROK connections.

Code	Ways	Size	OC distance	Color	Class	Packaging
506865C	3	1" x EUROK	40 mm		OH	20
506866C	4	1" x EUROK	40 mm		OH	18
506867C	5	1" x EUROK	40 mm		OH	12

TE 3040 IV



Electrothermal head normally closed (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 40 mm.

Code	Size	Manifolds type	Class	Packaging
501508E	M30 x 1,5 ; ON / OFF (230 V AC)	OC distance ≥ 40 mm	AC	1 / 100

TE 6050 M



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.

Code	Size	Manifolds type	Class	Packaging
501514	M30 x 1,5 ; ON / OFF (230 V AC)	OC distance ≥ 40 mm	AC	1 / 70
501401	M30 x 1,5 ; ON / OFF (24 V AC/DC)	OC distance ≥ 40 mm	AC	1 / 70



Cabinet not included >> p. 202



Fitting for multilayer pipe >> p. 108



TA 4420 / TP 4410 >>p. 108



Ball valves >> p. 218

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AC 628



Double bracket for modular manifolds EASY-LOCK / COMPACT / EASY-RADIANT series.

Code	OC distance	Depth	Manifolds type	Class	Packaging
501632	200 mm	80 mm	1" (EASY-LOCK / COMPACT/ EASY-RADIANT series)	NJ	2 / 70
501639	200 mm	95 mm	1" (EASY-LOCK / COMPACT / EASY-RADIANT series)	NJ	2 / 70

AC 691



Kit of swiveling terminals for EASY-RADIANT manifolds with drainage valves, check valve, automatic and manual air vent valves.

Code	Size	Class	Packaging
500134	1" F	NJ	1 / 16

AC 694



Insulating cover for EASY-RADIANT manifolds, suitable for radiant heating/cooling systems.

Code	Ways	Manifolds type	Class	Packaging
506547	12	1"	NJ	5

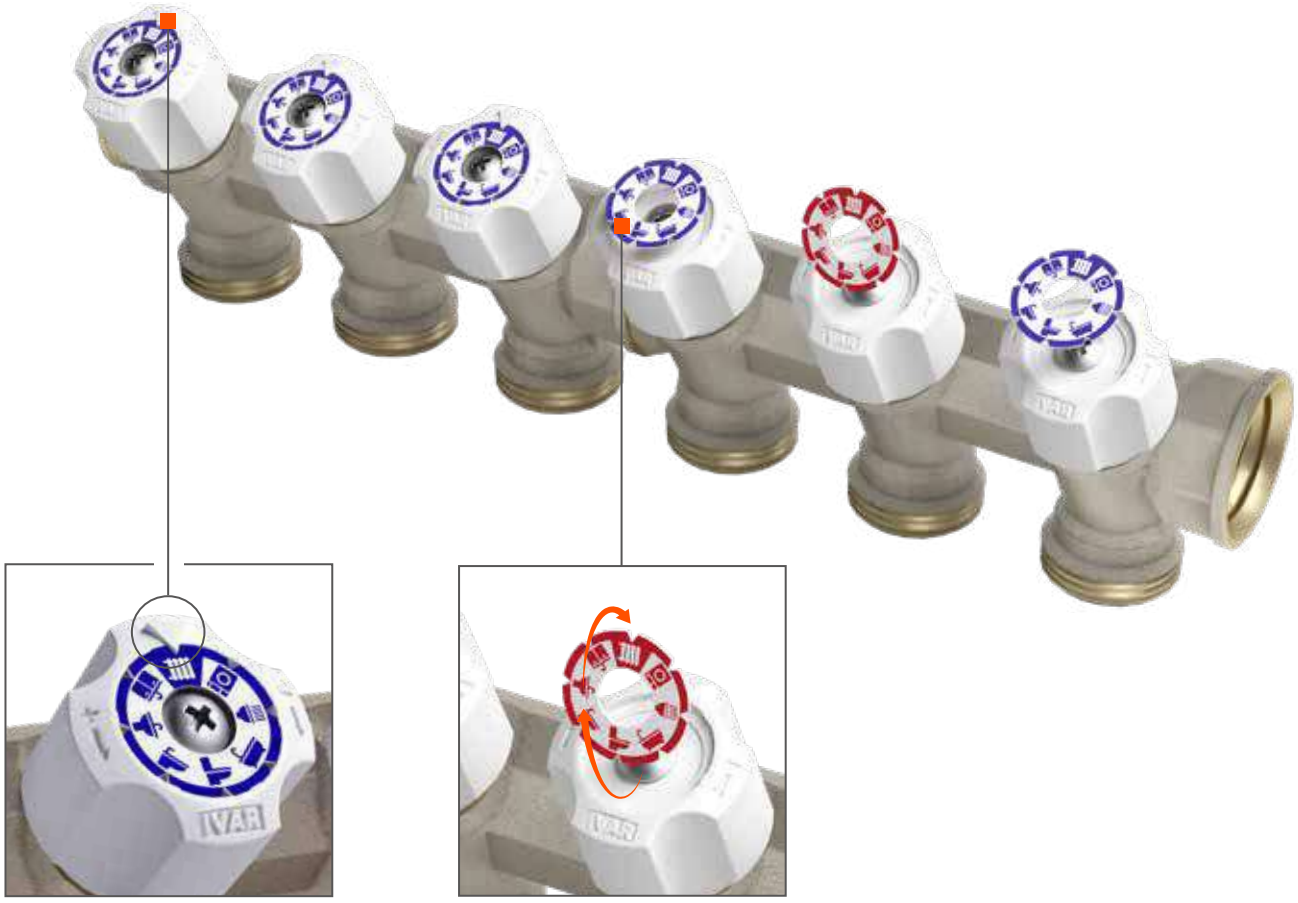
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EASY•LOCK

The manifolds of the **EASY•LOCK** range feature the option for practical and simple interconnection with one another. 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 that it is prohibited to use sealing systems such as hemp or PTFE, or to use additional sealants and tightening can be carried out by hand, without tools.

When shut-off valves or caps are fitted to the **EASY•LOCK** manifolds, the best solution is always to use IVAR components with the same sealing technology – soft seal with o-ring.

If it is necessary to make a connection to a threaded component without soft seal technology, the use of hemp is still prohibited; it is recommended instead to use PTFE tape or a thread sealing cord (e.g. Loctite® 55), of which the appropriate quantity should be used, applying a maximum tightening torque of between 15 and 20 Nm with a tool.



Indicator incorporated in the knob

Single reversible plate (hot/cold) with supply terminal icon

New Easy-Label technology
It is not necessary to remove the screw to insert the reversible plate, thanks to the interlocking positioning

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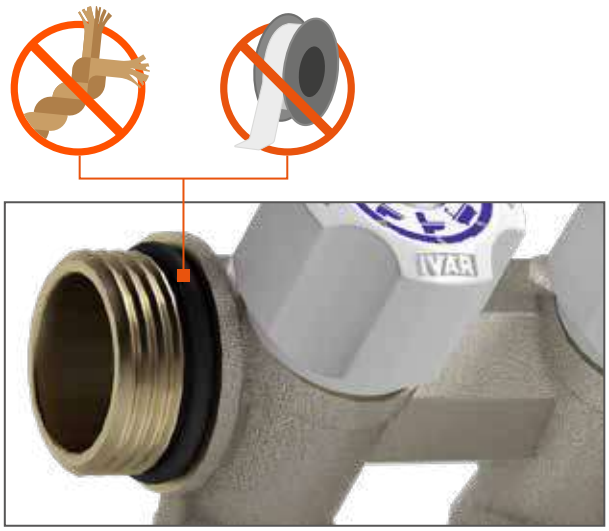
The manifolds are nickel plated on the exterior only, and therefore remain yellow on the inside, ensuring conformity for conveying drinking water.

Materials
Brass parts: CW617N nickel-plated on exterior only
Sealing elements: peroxide EPDM.

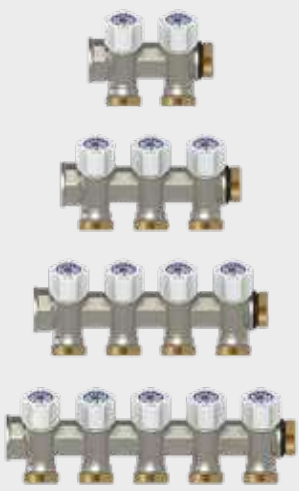
Technical specifications
Max. fluid temperature inside manifold: 100 °C
Maximum operating pressure: 10 bar
Outlet interaxis: 40 mm.



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.



Inclined at 30° shut-off knobs.



Available with
3/4" or 1"
MAIN CONNECTION.

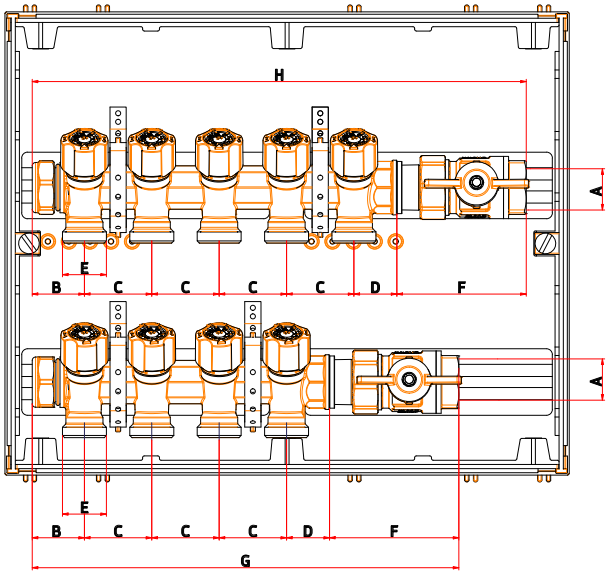




Straight shut-off knobs.

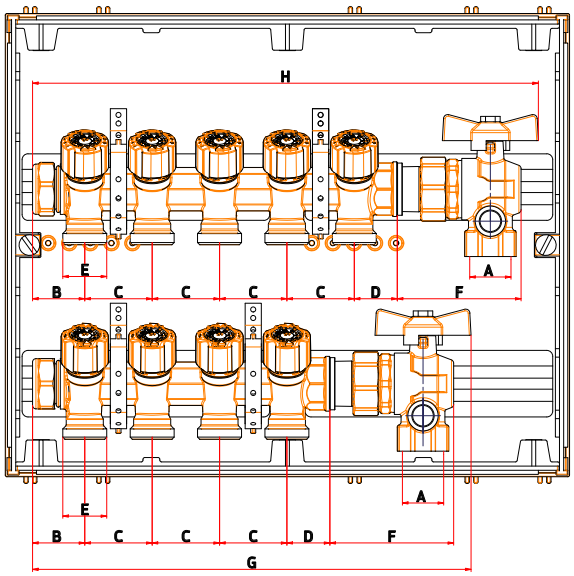
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MANIFOLD DIMENSIONS (Octagonal section) + 



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

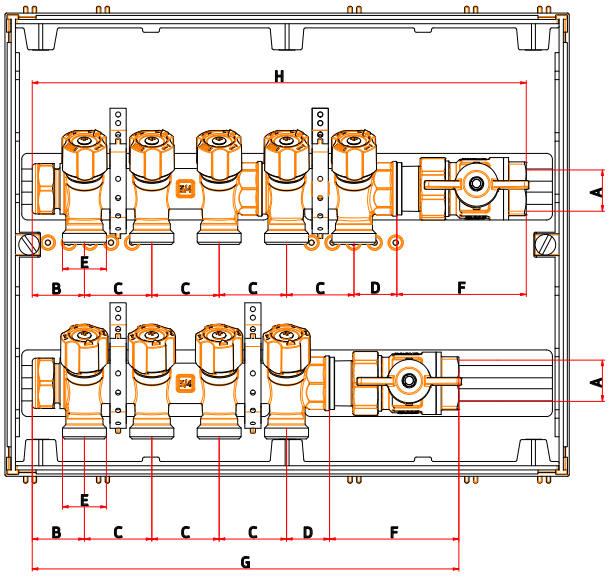
MANIFOLD DIMENSIONS (Octagonal section) + 



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

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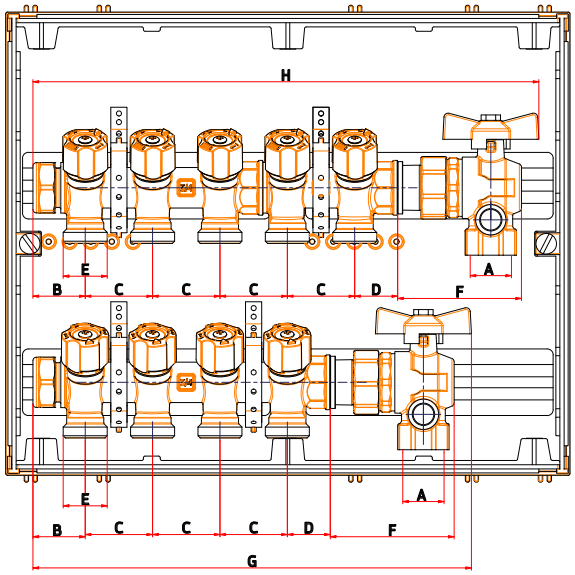
MANIFOLD DIMENSIONS (Round section) O +



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 (Round section) O +

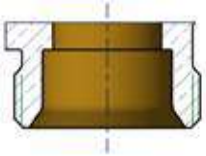


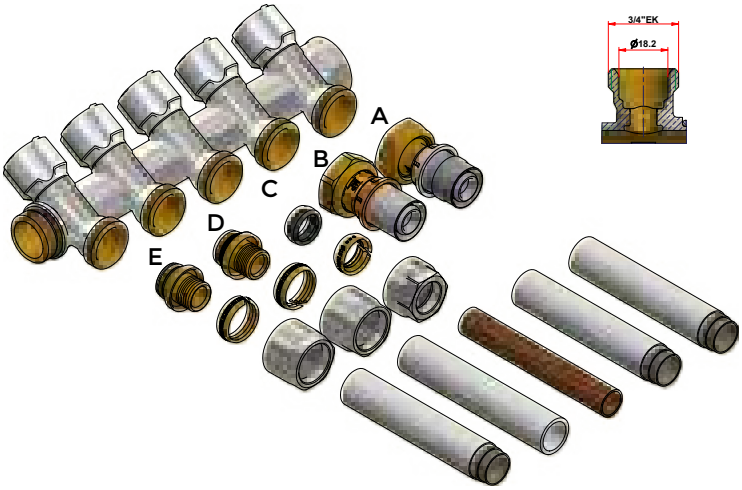
A	B	C	D	E	F	G	H
G 3/4" F	32 mm	40 mm	25,5 mm	EUROK* 1/2" F* 1/2" M 1/2" M TP M24x1,5	73,5 mm	261,5 mm	301,5 mm
G 1" F	34,5 mm	40 mm	25,5 mm	EUROK* 1/2" F* M24x1,5	93 mm	272,5 mm	312,5 mm

*CS 200 N only

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EASY•LOCK manifolds with EUROK connections and suitable fittings





A)  MPL 5705 >> p. 93

B)  MP 5705 >> p. 76

C)  TR 4430 >> p. 108

D)  TP 4410 >> p. 108

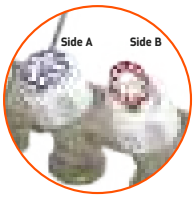
E)  TA 4420 >> p. 108

CI 390 N



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.

Code	Ways	Size	OC distance	Color	Class	Packaging
507800N	2	3/4" x EUROK	40 mm	or (reversible)	NG	8 / 32
507801N	3	3/4" x EUROK	40 mm	or (reversible)	NG	5 / 20
507802N	4	3/4" x EUROK	40 mm	or (reversible)	NG	4 / 16
507830N	5	3/4" x EUROK	40 mm	or (reversible)	NG	5
507815N	2	1" x EUROK	40 mm	or (reversible)	NG	8 / 32
507816N	3	1" x EUROK	40 mm	or (reversible)	NG	5 / 20
507817N	4	1" x EUROK	40 mm	or (reversible)	NG	4 / 16



 >>p. 205

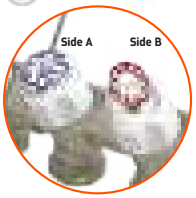
 AC 655 NST >> p. 218

 AC 601 >> p. 213

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CI 490 N





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.

Code	Ways	Size	OC distance	Color	Class	Packaging
507300N	2	3/4" x EUROK	40 mm	or (reversible)	NG	8 / 32
507301N	3	3/4" x EUROK	40 mm	or (reversible)	NG	5 / 20
507302N	4	3/4" x EUROK	40 mm	or (reversible)	NG	4 / 16
507320N	2	1" x EUROK	40 mm	or (reversible)	NG	8 / 32
507321N	3	1" x EUROK	40 mm	or (reversible)	NG	5 / 20
507322N	4	1" x EUROK	40 mm	or (reversible)	NG	4 / 16

CI 490 NW



Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valve.

Code	Ways	Size	OC distance	Color	Class	Packaging
507300NW	2	3/4" x EUROK	40 mm		NG	8 / 32
507301NW	3	3/4" x EUROK	40 mm		NG	5 / 20
507302NW	4	3/4" x EUROK	40 mm		NG	4 / 16
507320NW	2	1" x EUROK	40 mm		NG	8 / 32
507321NW	3	1" x EUROK	40 mm		NG	5 / 20
507322NW	4	1" x EUROK	40 mm		NG	4 / 16

CI 490 NB



Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valve.

Code	Ways	Size	OC distance	Color	Class	Packaging
507300NB	2	3/4" x EUROK	40 mm		NG	8 / 32
507301NB	3	3/4" x EUROK	40 mm		NG	5 / 20
507302NB	4	3/4" x EUROK	40 mm		NG	4 / 16
507320NB	2	1" x EUROK	40 mm		NG	8 / 32
507321NB	3	1" x EUROK	40 mm		NG	5 / 20
507322NB	4	1" x EUROK	40 mm		NG	4 / 16

CI 490 NR



Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valve.

Code	Ways	Size	OC distance	Color	Class	Packaging
507300NR	2	3/4" x EUROK	40 mm		NG	8 / 32
507301NR	3	3/4" x EUROK	40 mm		NG	5 / 20
507302NR	4	3/4" x EUROK	40 mm		NG	4 / 16
507320NR	2	1" x EUROK	40 mm		NG	8 / 32
507321NR	3	1" x EUROK	40 mm		NG	5 / 20
507322NR	4	1" x EUROK	40 mm		NG	4 / 16

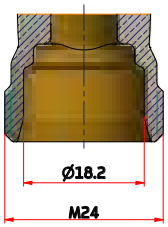

>>p. 205

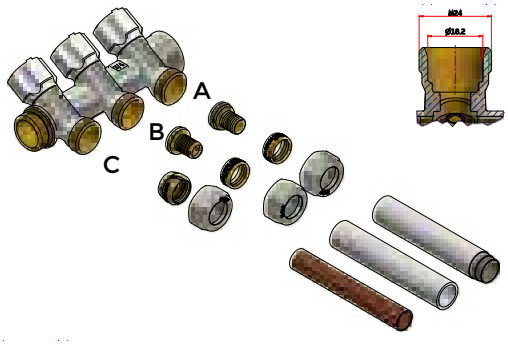

AC 655 NST >> p. 218


AC 601 >> p. 213

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EASY•LOCK manifolds with 1/2" M, 1/2" M TP and M24x1,5 connections and suitable fittings

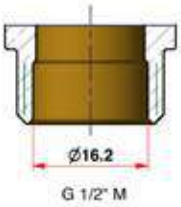


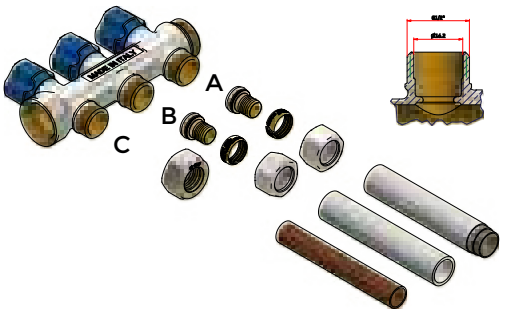


A)  TA 420 >> p. 109

B)  TP 410 >> p. 109

C)  TR 430 >> p. 109

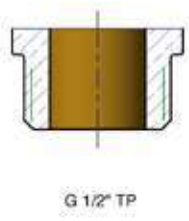


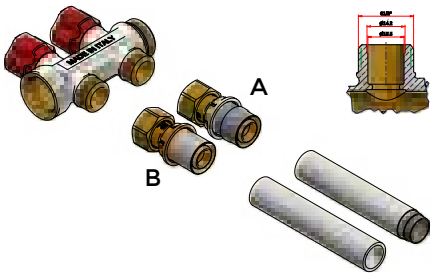


A)  TA 420 P >> p. 109

B)  TP 410 P >> p. 109

C)  TR 430 P >>p. 109





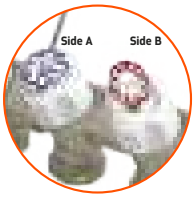
A)  MPL 5703 >>p. 93

B)  MP 5703 >> p. 76

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CI 350 N



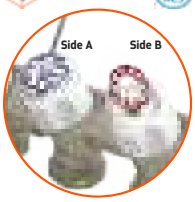


Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves, reversible plate (hot/cold) showing the element connected to the corresponding outtake and 30 ° inclined connections.

Code	Ways	Size	OC distance	Color	Class	Packaging
506806N	2	3/4" x 1/2" M	40 mm	or (reversible)	NG	30
506807N	3	3/4" x 1/2" M	40 mm	or (reversible)	NG	25
506808N	4	3/4" x 1/2" M	40 mm	or (reversible)	NG	20
506809N	2	3/4" x 1/2" M TP	40 mm	or (reversible)	NG	30
506810N	3	3/4" x 1/2" M TP	40 mm	or (reversible)	NG	25
506811N	4	3/4" x 1/2" M TP	40 mm	or (reversible)	NG	20
506834N	5	3/4" x 1/2" M TP	40 mm	or (reversible)	NG	15

CI 400 NBR





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.

Code	Ways	Size	OC distance	Color	Class	Packaging
506316NBR	2	3/4" x 1/2" M TP	40 mm	or (reversible)	NG	55
506317NBR	3	3/4" x 1/2" M TP	40 mm	or (reversible)	NG	35
506318NBR	4	3/4" x 1/2" M TP	40 mm	or (reversible)	NG	28
506324NBR	2	1" x M24x1,5	40 mm	or (reversible)	NG	35
506325NBR	3	1" x M24x1,5	40 mm	or (reversible)	NG	30
506326NBR	4	1" x M24x1,5	40 mm	or (reversible)	NG	20

CI 400 N



Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves.

Code	Ways	Size	OC distance	Color	Class	Packaging
506316N	2	3/4" x 1/2" M TP	40 mm	☐	NG	55
506317N	3	3/4" x 1/2" M TP	40 mm	☐	NG	35
506318N	4	3/4" x 1/2" M TP	40 mm	☐	NG	28
506304N	2	3/4" x M24x1,5	40 mm	☐	NG	55
506305N	3	3/4" x M24x1,5	40 mm	☐	NG	35
506306N	4	3/4" x M24x1,5	40 mm	☐	NG	28
506324N	2	1" x M24x1,5	40 mm	☐	NG	45
506325N	3	1" x M24x1,5	40 mm	☐	NG	30
506326N	4	1" x M24x1,5	40 mm	☐	NG	20



>>p. 205



AC 655 NST >> p. 218



AC 601 >> p. 213

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CI 400 NB



Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves.

Code	Ways	Size	OC distance	Color	Class	Packaging
506316NB	2	3/4" x 1/2" M TP	40 mm		NG	55
506317NB	3	3/4" x 1/2" M TP	40 mm		NG	35
506318NB	4	3/4" x 1/2" M TP	40 mm		NG	28
506304NB	2	3/4" x M24x1,5	40 mm		NG	55
506305NB	3	3/4" x M24x1,5	40 mm		NG	35
506306NB	4	3/4" x M24x1,5	40 mm		NG	28
506324NB	2	1" x M24x1,5	40 mm		NG	45
506325NB	3	1" x M24x1,5	40 mm		NG	30
506326NB	4	1" x M24x1,5	40 mm		NG	20

CI 400 NR



Modular manifold EASY LOCK series (centre-to-centre distance 40 mm) with manually operated isolation valves.

Code	Ways	Size	OC distance	Color	Class	Packaging
506316NR	2	3/4" x 1/2" M TP	40 mm		NG	55
506317NR	3	3/4" x 1/2" M TP	40 mm		NG	35
506318NR	4	3/4" x 1/2" M TP	40 mm		NG	28
506304NR	2	3/4" x M24x1,5	40 mm		NG	55
506305NR	3	3/4" x M24x1,5	40 mm		NG	35
506306NR	4	3/4" x M24x1,5	40 mm		NG	28
506324NR	2	1" x M24x1,5	40 mm		NG	45
506325NR	3	1" x M24x1,5	40 mm		NG	30
506326NR	4	1" x M24x1,5	40 mm		NG	20



>>p. 205



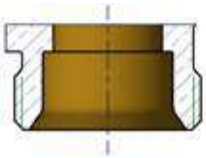
AC 655 NST >> p. 218

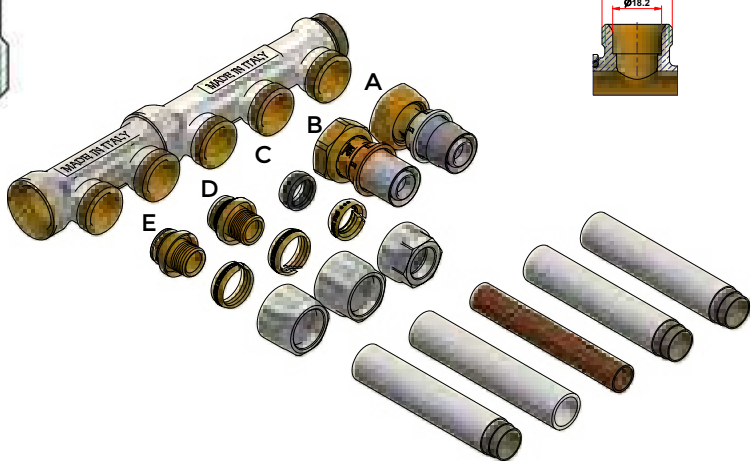


AC 601 >> p. 213

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EASY•LOCK manifolds (CS 200 N) with EUROK and 1/2" F connections and suitable fittings





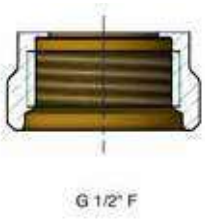
A)  MPL 5705 >> p. 93

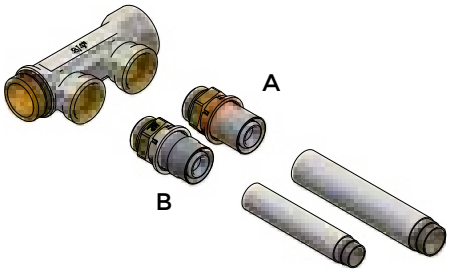
B)  MP 5705 >> p. 76

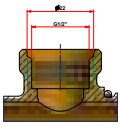
C)  TR 4430 >> p. 108

D)  TP 4410 >> p. 108

E)  TA 4420 >> p. 108







A)  MP 5609 >> p. 76

B)  MPL 5609 >>p. 93

CS 200 N



Modular plain manifold EASY LOCK series (centre-to-centre distance 40 mm).

Code	Ways	Size	OC distance	Class	Packaging
501705N	2	3/4" x EUROK	40 mm	NG	80
501707N	3	3/4" x EUROK	40 mm	NG	54
501709N	4	3/4" x EUROK	40 mm	NG	40
501701N	2	3/4" x 1/2" F	40 mm	NG	80
501702N	3	3/4" x 1/2" F	40 mm	NG	54
501703N	4	3/4" x 1/2" F	40 mm	NG	40
501685N	2	1" x EUROK	40 mm	NG	70
501687N	3	1" x EUROK	40 mm	NG	50
501689N	4	1" x EUROK	40 mm	NG	30
501681N	2	1" x 1/2" F	40 mm	NG	70
501682N	3	1" x 1/2" F	40 mm	NG	50
501683N	4	1" x 1/2" F	40 mm	NG	30

 >>p. 205

 AC 655 NST >> p. 218

 AC 601 >> p. 213

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COMPACT SERIES MANIFOLDS

The manifolds of the **COMPACT series** range feature the option for practical and simple interconnection with one another. 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 that it is prohibited to use sealing systems such as hemp or PTFE, or to use additional sealants and tightening can be carried out by hand, without tools.

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 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).

The manifolds are nickel plated on the exterior only, and therefore remain yellow on the inside, ensuring conformity for conveying drinking water.

When shut-off valves or caps are fitted to the **COMPACT series** manifolds, the best solution is always to use IVAR components with the same sealing technology – soft seal with o-ring.

If it is necessary to make a connection to a threaded component without soft seal technology, the use of hemp is still prohibited; it is recommended instead to use PTFE tape or a thread sealing cord (e.g. Loctite® 55), of which the appropriate quantity should be used, applying a maximum tightening torque of between 15 and 20 Nm with a tool.

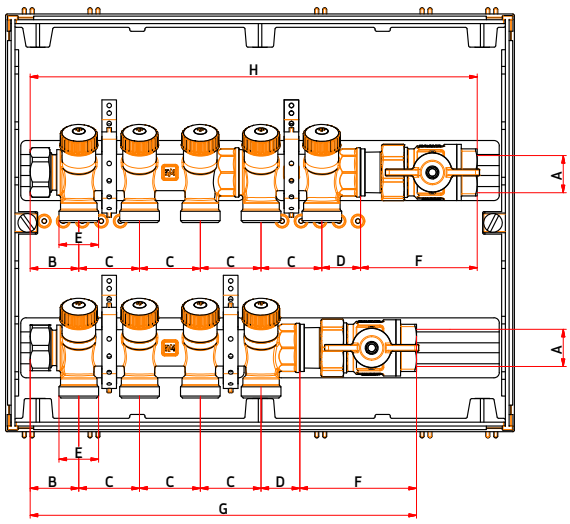
Materials
Brass parts: CW617N nickel-plated on exterior only
Sealing elements: peroxide EPDM.

Technical specifications
Max. fluid temperature 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.



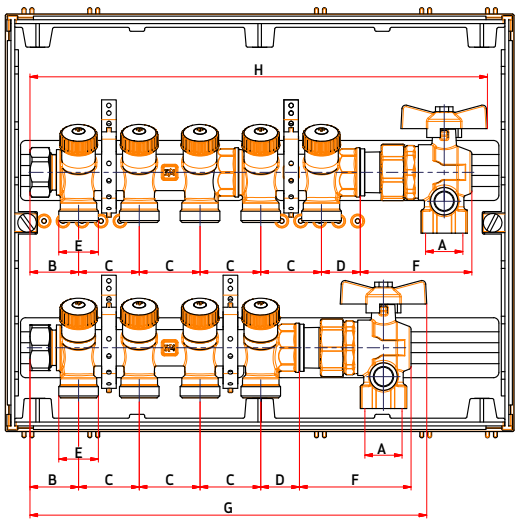
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MANIFOLDS DIMENSIONS +



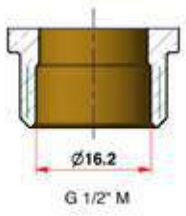
A	B	C	D	E	F	G	H
G 3/4" F	29,5 mm	35 mm	23 mm	1/2" M M24x1,5	77 mm	234,5 mm	269,5 mm

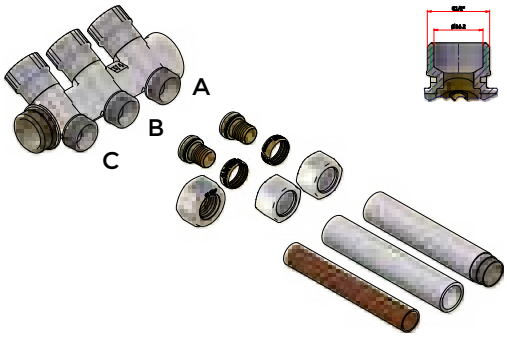
MANIFOLDS DIMENSIONS +



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

COMPACT series manifolds with 1/2" M and M24x1,5 connections and suitable fittings

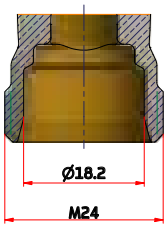


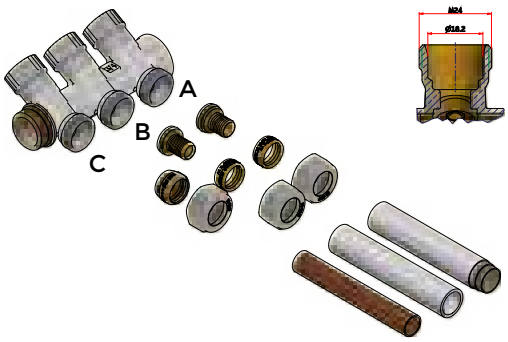


A)  TA 420 P >> p. 109

B)  TP 410 P >> p. 109

C)  TR 430 P >>p. 109





A)  TA 420 >> p. 109

B)  TP 410 >> p. 109

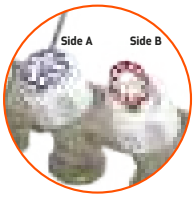
C)  TR 430 >> p. 109

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MODULAR MANIFOLDS COMPACT SERIES

CI 370 N





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.

Code	Ways	Size	OC distance	Color	Class	Packaging
506838N	2	3/4" x 1/2" M	35 mm	or (reversible)	NG	30
506839N	3	3/4" x 1/2" M	35 mm	or (reversible)	NG	25
506840N	4	3/4" x 1/2" M	35 mm	or (reversible)	NG	20
506835N	2	3/4" x M24x1,5	35 mm	or (reversible)	NG	30
506836N	3	3/4" x M24x1,5	35 mm	or (reversible)	NG	25
506837N	4	3/4" x M24x1,5	35 mm	or (reversible)	NG	20

CI 370 NT



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.

Code	Ways	Size	OC distance	Color	Class	Packaging
506838NT	2	3/4" x 1/2" M	35 mm	or	NG	30
506839NT	3	3/4" x 1/2" M	35 mm	or	NG	25
506840NT	4	3/4" x 1/2" M	35 mm	or	NG	20

CS 368 N



Modular plain manifold BASIC series (centre-to-centre distance 35 mm).

Code	Ways	Size	OC distance	Class	Packaging
506850N	2	3/4" x 1/2" M	35 mm	NG	80
506851N	3	3/4" x 1/2" M	35 mm	NG	54
506852N	4	3/4" x 1/2" M	35 mm	NG	40
506847N	2	3/4" x M24x1,5	35 mm	NG	80
506848N	3	3/4" x M24x1,5	35 mm	NG	54
506849N	4	3/4" x M24x1,5	35 mm	NG	40


>>p. 205


AC 655 NST >> p. 218


AC 601 >> p. 213

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IS•BOX

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.

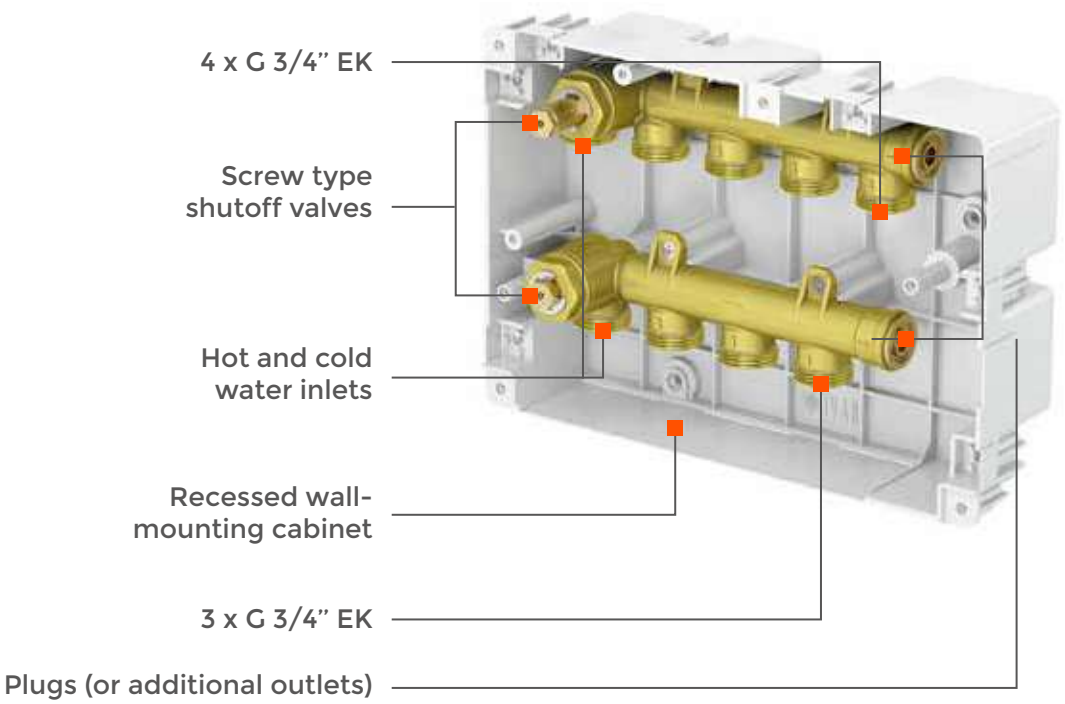
The manifolds are drinking water compatible and have inlets with shutoff provision by means of screw-seal valves and replaceable hardware. Available in two colours (white and chrome finish); also in completely accessible versions.

Materials
Brass parts: CW617N
Sealing elements: peroxide EPDM

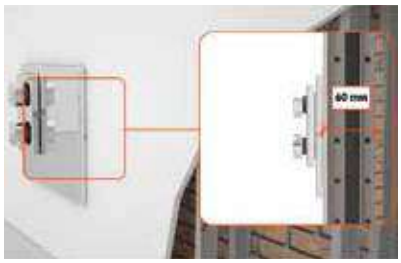
Technical specifications
Max. fluid temperature inside manifold: 100 °C
Maximum operating pressure: 10 bar

+ PLUS

- Compact solution ideal for thin walls (installation thickness of only 60 mm).
- Available with white or chrome finish
- Completely pre-assembled



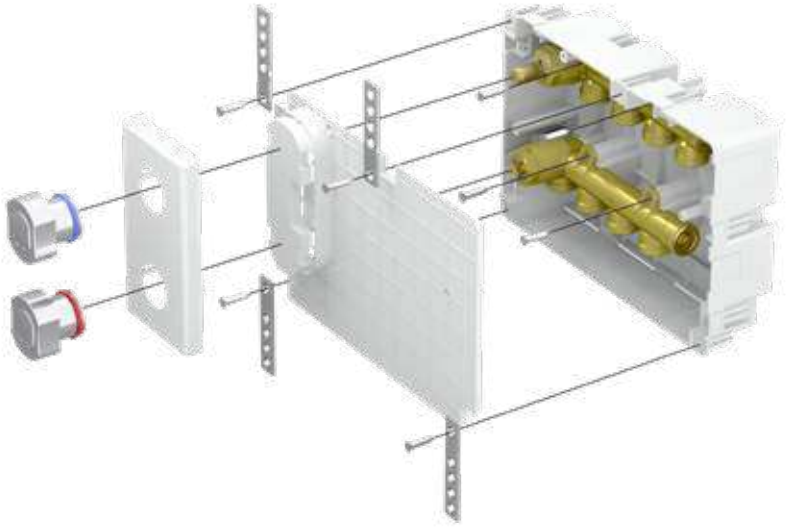






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SANITARY MANIFOLDS IS•BOX



BASIC VERSION

☑ INSPECTABLE

☑ WITH SHUTOFF OPTION WITHOUT REMOVING BACKPLATE

☑ WITH SHUTOFF OPTION WITHOUT REMOVING BACKPLATE

☑ INSPECTABLE



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IS-BOX 1



182 × 267 × 60 mm

IS-BOX basic.

Code	Hot / Cold ways	Size	Color	Class	Packaging
506592	3 HOT / 4 COLD	EUROK	☐	OC	1 / 4
506592CR	3 HOT / 4 COLD	EUROK	■	OC	1 / 4

IS-BOX 2



182 × 267 × 60 mm

Inspectable IS-BOX.

Code	Hot / Cold ways	Size	Color	Class	Packaging
506593	3 HOT / 4 COLD	EUROK	☐	OC	1 / 4
506593CR	3 HOT / 4 COLD	EUROK	■	OC	1 / 4

IS-BOX 3



182 × 267 × 60 mm

IS-BOX with isolation chrome knobs.

Code	Hot / Cold ways	Size	Color	Class	Packaging
506594	3 HOT / 4 COLD	EUROK	☐	OC	1 / 4
506594CR	3 HOT / 4 COLD	EUROK	■	OC	1 / 4

IS-BOX 4



182 × 267 × 60 mm

Inspectable IS-BOX with isolation chrome knobs.

Code	Hot / Cold ways	Size	Color	Class	Packaging
506595	3 HOT / 4 COLD	EUROK	☐	OC	1 / 4
506595CR	3 HOT / 4 COLD	EUROK	■	OC	1 / 4



Fitting for copper pipe >> p. 108



Fitting for multilayer pipe >> p. 108



Fitting for polyethylene pipe >> p. 108

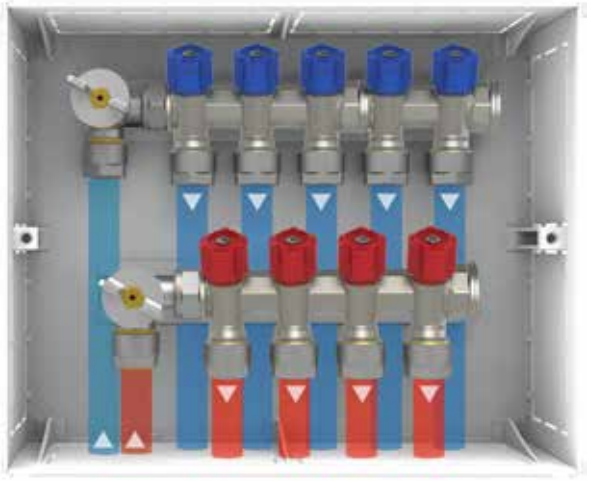


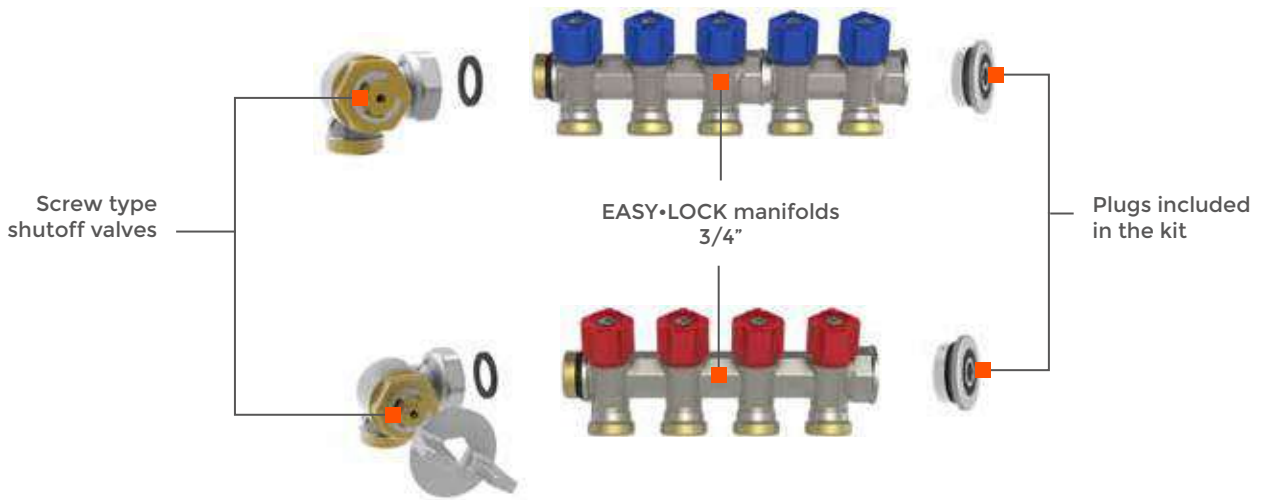
Extension for built in valve AR 22 >>p. 105

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IS•BOX Plus

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.





IS-BOX PLUS



Kit including isolation screw valves for IS-BOX Plus system and 3/4" F swivelling nuts for the connection of EASY-LOCK / COMPACT series manifolds.

Code	Size	Suitable Cabinet	Class	Packaging
506684	3/4" EUROK x 3/4" F TP	AC 850	OC	1



AC 850 (suitable cabinet up to 5 Cold + 4 Hot ways: code SAM-032) >>p. 205

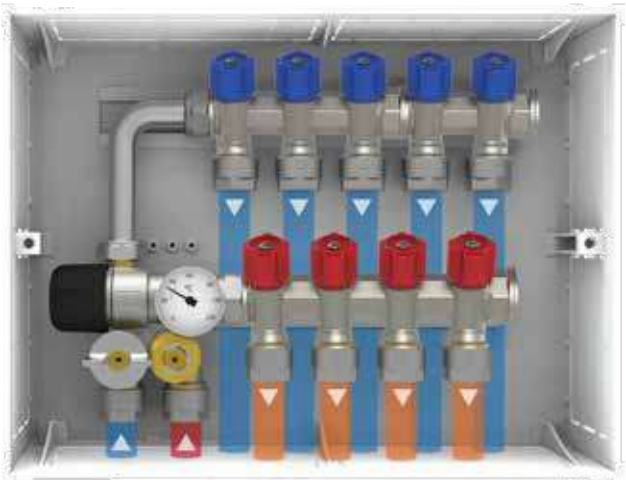
For the modular manifolds EASY•LOCK / COMPACT series to be matched, see the previous sections.

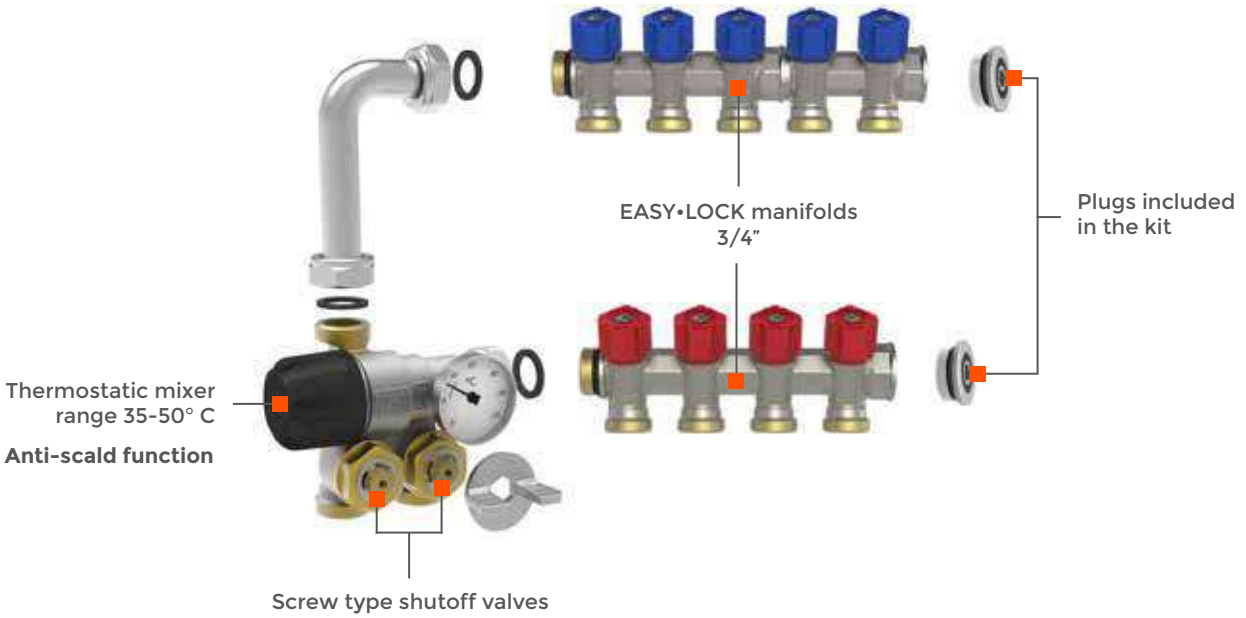
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IS•BOX MPlus

The MPlus version is equipped with an adjustable thermostatic mixer with anti-scald function, to prevent delivery to water terminals at excessively high temperatures.

Max no. outputs	Cabinet with	Suitable cabinet (AC 850)
5 Cold + 4 Hot	320 mm	SAM-032
6 Cold + 5 Hot	400 mm	SAM-040
7 Cold + 6 Hot	400 mm	SAM-040





IS-BOX MPLUS



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 / COMPACT series manifolds.

Code	Size	Range	Suitable Cabinet	Class	Packaging
506664	3/4" EUROK x 3/4" F TP	35-50 °C	AC 850	OC	1



AC 850 (suitable cabinet up to 5 Cold + 4 Hot ways: code SAM-032) >>p. 205

For the modular manifolds EASY•LOCK / COMPACT series to be matched, see the previous sections.

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CABINETS

AC 841 E



Wall fitted cabinet with variable height and depth for manifolds.

Code	Height	Width	Depth	Class	Packaging
200171	600-700 mm	500 mm	80-130 mm	NZ	1
200172	600-700 mm	700 mm	80-130 mm	NZ	1
200173	600-700 mm	900 mm	80-130 mm	NZ	1
200174	600-700 mm	1100 mm	80-130 mm	NZ	1

FOCUS: AC 841 E





Metal sheet cover for plaster protection





Height-adjustable feet (+100 mm)



Telescopic frame (+50 mm extension)



Minimal design: flush-mount door

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AC 840



Wall fitted cabinet with variable height and depth for manifolds and MC modules.

Code	Height	Width	Depth	Module	Class	Packaging
200086	600-700 mm	500 mm	80-130 mm	MC3 series	NZ	1
200686	600-700 mm	600 mm	80-130 mm		NZ	1
200186	600-700 mm	700 mm	80-130 mm	MC15	NZ	1
200786	600-700 mm	800 mm	80-130 mm		NZ	1
200286	600-700 mm	900 mm	80-130 mm		NZ	1
200886	600-700 mm	1000 mm	80-130 mm		NZ	1
200386	600-700 mm	1100 mm	80-130 mm		NZ	1
200986	600-700 mm	1200 mm	80-130 mm		NZ	1
200486	600-700 mm	1300 mm	80-130 mm		NZ	1
200586	600-700 mm	1500 mm	80-130 mm		NZ	1

AC 830



Wall fitted cabinet with variable height and depth for manifolds and MC / IVAR-SAT / MULTIMIX / MULTIMIX-C modules.

Code	Height	Width	Depth	Module	Class	Packaging
200089	860-960 mm	500 mm	110-160 mm	2-way Multimix/Multimix-C	NZ	1
200590	860-960 mm	600 mm	110-160 mm	MC4 series (3/4")	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	NZ	1
200690	860-960 mm	800 mm	110-160 mm		NZ	1
200190	860-960 mm	900 mm	110-160 mm	MC2 series - IVAR-SAT HL/HLE	NZ	1
200790	860-960 mm	1000 mm	110-160 mm		NZ	1
200290	860-960 mm	1100 mm	110-160 mm		NZ	1
200890	860-960 mm	1200 mm	110-160 mm		NZ	1
200390	860-960 mm	1300 mm	110-160 mm		NZ	1
200490	860-960 mm	1500 mm	110-160 mm		NZ	1

AC 830 P



Wall hanging cabinet for IvarSAT utility satellites.

Code	Height	Width	Depth	Module	Class	Packaging
200094	722 mm	600 mm	150 mm	IVAR-SAT H	NZ	1
200194	785 mm	640 mm	150 mm	IVAR-SAT L/LE	NZ	1
200294	785 mm	750 mm	150 mm	IVAR-SAT HL/HLE	NZ	1

AC 820



Wall hanging cabinet with fixed height and depth for manifolds.

Code	Height	Width	Depth	Class	Packaging
540020	640 mm	450 mm	130 mm	NZ	1
540021	640 mm	530 mm	130 mm	NZ	1
540022	640 mm	830 mm	130 mm	NZ	1
540023	640 mm	1030 mm	130 mm	NZ	1

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AC 830 S



Wall fitted cabinet with variable height and depth for EQUIMETER, EQUICOMPACT and EQUIDYNAMIC modules.

Code	Height	Width	Depth	Module	Class	Packaging
200085	780-855 mm	555 mm	113-163 mm	EQM series	NZ	1
200091	1.100-1.175 mm	545 mm	113-163 mm	EQM double H/C	NZ	1
200091G4	1.000 mm (4 tracks)	550 mm	110-160 mm	Equicompact / Equidynamic x 2	NZ	1
200191G6	1.500 mm (6 tracks)	550 mm	110-160 mm	Equicompact / Equidynamic x 3	NZ	1

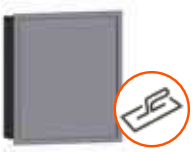
AC 860 B



Wall fitted cabinet (basic version) for metering modules Equicompact®/Equidynamic.

Code	Height	Width	Depth	Class	Packaging
200199	450 mm	450 mm	135-160 mm	NZ	1

AC 860 L



Wall fitted cabinet (version with cover suitable for plastering) for metering modules Equicompact®/Equidynamic.

Code	Height	Width	Depth	Class	Packaging
200299	450 mm	450 mm	135-160 mm	NZ	1

AC 860 IB



Wall polypropylene fitted cabinet (basic version) for metering modules Equicompact®.

Code	Height	Width	Depth	Class	Packaging
506665B	470 mm	470 mm	120-160 mm	NZ	1

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AC 850



Plastic cabinet with bottom and fastening kit for coplanar and modular manifolds.

Code	Height	Width	Depth	Class	Packaging
SAM-032	260 mm	320 mm	95 mm	NW	1 / 20
SAM-040	260 mm	400 mm	95 mm	NW	1 / 20
SAM-050	260 mm	500 mm	95 mm	NW	1 / 10
SAM-060	260 mm	600 mm	95 mm	NW	1 / 10

AC 851



Kit for coplanar and modular manifolds fastening in plastic cabinet AC 850.

Code	Manifolds type	Class	Packaging
SAM-001	EASY·RADIANT / EASY·LOCK / COMPACT series	NW	1

AC 852

Plastic cabinet with bottom for modular and coplanar manifolds (without fastening kit, to be ordered separately).

Code	Height	Width	Depth	Class	Packaging
SAM-135	350 mm	350 mm	90 mm	NW	1
SAM-150	350 mm	500 mm	90 mm	NW	1
SAM-165	350 mm	650 mm	90 mm	NW	1
SAM-180	400 mm	800 mm	95 mm	NW	1

AC 853



Kit for coplanar and modular manifolds fasteting in plastic cabinet AC 852.

Code	Manifolds type	Class	Packaging
SAM-011	CC 00	NW	1 / 50
SAM-010	EASY·RADIANT / EASY·LOCK / COMPACT series	NW	1 / 50

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TERMINALS FOR MANIFOLDS

AC 630



Adjustable terminal for manifold with brass or plastic incorporated drainage valve.

Code	Size	Class	Packaging
500255	1/2" F x 1" M - BRASS	NJ	8 / 64
500256	1/2" F x 1" M - PLASTIC	NJ	10 / 80

AC 657 N



Swiveling terminal for header with incorporated drainage valve and manual vent valve.

Code	Size	Class	Packaging
506246	3/4" M	NJ	20 / 80
506235	1" M	NJ	20 / 80

AC 631



Adjustable terminal for manifolds.

Code	Size	Class	Packaging
500257	1/2" F x 1" M x 1/2" F	NJ	20 / 80
500258	1/2" F x 1" M x 3/8" F	NJ	20 / 80

AC 678



Swiveling terminal for manifolds equipped with built-in brass or plastic filling/drainage valve.

Code	Size	Class	Packaging
570225	1/2"F x 1"M x 1/2"F - BRASS	NJ	10 / 80
570225P	1/2"F x 1"M x 1/2"F - PLASTIC	NJ	10 / 80

AC 650



Filling/drainage valve with brass or plastic rotating cock.

Code	Size	Class	Packaging
501016	1/2" M - BRASS	NJ	25 / 100
500125	1/2" M - PLASTIC	NJ	35 / 280

AC 677



Swiveling terminal for manifolds with 3 connections.

Code	Size	Class	Packaging
570224	1" M - 3 x 1/2" F	NJ	20 / 160

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AIR VENT VALVES

AC 620 N

Automatic air vent valve.



Code	Size	Color	Class	Packaging
501323	3/8"		NJ	15 / 120
501325	1/2"		NJ	15 / 120

AC 621

Check valve for automatic air valve.



Code	Size	Color	Class	Packaging
501327	1/2" M x 3/8" F		NJ	100 / 400
501329	1/2" M x 1/2" F		NJ	100 / 400

AC 625

Manual air vent valve.



Code	Size	Class	Packaging
500675	3/8"	NJ	100 / 800
500674	1/2"	NJ	100 / 800

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BRACKETS

AC 610



Double bracket for brass rod and stainless steel manifolds.

Code	OC distance	Depth	Manifolds type	Class	Packaging
501019	200 mm	110 mm	3/4"	NJ	2 / 70
501098	200 mm	110 mm	1"	NJ	2 / 40
501020	200 mm	110 mm	1"1/4	NJ	2 / 60
501019P80	200 mm	80 mm	3/4"	NJ	2 / 70
501098P80	200 mm	80 mm	1"	NJ	2 / 40

AC 611



Double bracket for brass rod and stainless steel manifolds.

Code	OC distance	Depth	Manifolds type	Class	Packaging
501218B	250 mm	110 mm	1"	NJ	2 / 40
501218	260 mm	110 mm	1"	NJ	2 / 40
501360B	250 mm	110 mm	1"1/4	NJ	2 / 30
501360	260 mm	110 mm	1"1/4	NJ	2 / 30

AC 609

Single bracket for brass rod and stainless steel manifolds.



Code	Manifolds type	Class	Packaging
500901	3/4"	NJ	2 / 140
500902	1"	NJ	2 / 80
500903	1"1/4	NJ	2 / 140

AC 629

Single bracket for brass rod and stainless steel manifolds.



Code	Manifolds type	Class	Packaging
500935	3/4"	NJ	2 / 70
500936	1"	NJ	2 / 100
500641	1"1/4	NJ	2 / 150

AC 609 (1"1/2)

Single bracket for brass rod and stainless steel manifolds.



Code	Manifolds type	Class	Packaging
506418	1"1/2	NJ	2 / 70

AC 629 (1"1/2)

Single bracket for brass rod and stainless steel manifolds.



Code	Manifolds type	Class	Packaging
506419	1"1/2	NJ	2 / 50

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AC 628



Double bracket for modular manifolds EASY-LOCK / COMPACT / EASY-RADIANT series.

Code	OC distance	Depth	Manifolds type	Class	Packaging
501160P80	200 mm	80 mm	3/4" (EASY-LOCK / COMPACT series)	NJ	2 / 40
501160	200 mm	95 mm	3/4" (EASY-LOCK / COMPACT series)	NJ	2 / 40
501632	200 mm	80 mm	1" (EASY-LOCK / COMPACT/ EASY-RADIANT series)	NJ	2 / 70
501639	200 mm	95 mm	1" (EASY-LOCK / COMPACT / EASY-RADIANT series)	NJ	2 / 70

AC 639



Single bracket for modular manifolds EASY-LOCK / COMPACT series.

Code	Manifolds type	Class	Packaging
502061	3/4" (EASY-LOCK / COMPACT series)	NJ	2 / 150
501645	1" (EASY-LOCK / COMPACT series)	NJ	2 / 150

AC 649



Single bracket for modular manifolds EASY-LOCK / COMPACT series.

Code	Manifolds type	Class	Packaging
501641	3/4" (EASY-LOCK / COMPACT series)	NJ	2 / 70
501643	1" (EASY-LOCK / COMPACT series)	NJ	2 / 70

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BYPASS VALVES

AC 665



Bypass differential valve.

Code	Range	OC distance	Depth	Manifolds type	Class	Packaging
500064	0,2-0,6 bar	200 mm	110 mm	1"	NJ	5 / 40
500064P80	0,2-0,6 bar	200 mm	80 mm	1"	NJ	5 / 40

AC 679



Bypass differential valve with manifold terminals and accessories with brass or plastic adjustable drainaige tap.

Code	Range	OC distance	Accessories	Depth	Manifolds type	Class	Packaging
570226P80	0,2-0,6 bar	200 mm	Brass	80 mm	1"	NJ	4 / 16
570226PP80	0,2-0,6 bar	200 mm	Plastic	80 mm	1"	NJ	4 / 16
570226	0,2-0,6 bar	200 mm	Brass	110 mm	1"	NJ	3 / 12
570226P	0,2-0,6 bar	200 mm	Plastic	110 mm	1"	NJ	3 / 12

AC 667



Differential bypass valve with nozzles.

Code	Range	OC distance	Accessories	Depth	Manifolds type	Class	Packaging
500127P80	0,2-0,6 bar	200 mm		80 mm	1"	NJ	2 / 16
500127	0,2-0,6 bar	200 mm		110 mm	1"	NJ	2 / 16
500127GP80	0,2-0,6 bar	200 mm	1"1/4 swivel	80 mm	1"	NJ	2 / 16
500127G	0,2-0,6 bar	200 mm	1"1/4 swivel	110 mm	1"	NJ	2 / 16
501263P80	0,2-0,6 bar	200 mm	Thermometer	80 mm	1"	NJ	1 / 3
501263	0,2-0,6 bar	200 mm	Thermometer	110 mm	1"	NJ	2 / 16
501263GP80	0,2-0,6 bar	200 mm	Thermometer - 1"1/4 swivel	80 mm	1"	NJ	2 / 16
501263G	0,2-0,6 bar	200 mm	Thermometer - 1"1/4 swivel	110 mm	1"	NJ	2 / 16

AC 668



Differential bypass valve with nozzles and accessories.

Code	Range	OC distance	Accessories	Depth	Manifolds type	Class	Packaging
500128G	0,2-0,6 bar	200 mm	1"1/4 swivel	110 mm	1"	NJ	1

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AC 666



Differential bypass valve with terminals for manifold.

Code	Range	OC distance	Depth	Manifolds type	Class	Packaging
500126	0,2-0,6 bar	200 mm	110 mm	1"	NJ	4 / 32
500126P80	0,2-0,6 bar	200 mm	80 mm	1"	NJ	4 / 32

AC 681



Bypass differential valve with manifold terminals, manual air vent valve and brass or plastic adjustable drainage tap.

Code	Range	OC distance	Accessories	Depth	Manifolds type	Class	Packaging
570227P80	0,2-0,6 bar	200 mm	Brass	80 mm	1"	NJ	4 / 16
570227PP80	0,2-0,6 bar	200 mm	Plastic	80 mm	1"	NJ	4 / 16
570227	0,2-0,6 bar	200 mm	Brass	110 mm	1"	NJ	4 / 16
570227P	0,2-0,6 bar	200 mm	Plastic	110 mm	1"	NJ	4 / 16

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FITTINGS AND PLUGS

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

Flow splitter fitting EUROK.



Code	Size	OC distance	Color	Class	Packaging
506138	EUROK	36 mm		NJ	60

AC 605

Cam connector.



Code	Size	Color	Class	Packaging
502230N	1"		NJ	6 / 48

AC 4615 N

Thermometer fitting for junctions.



Code	Size	Color	Class	Packaging
500804	EUROK		NJ	10 / 80

AC 617

Thermometer with pocket.



Code	Size	Class	Packaging
500071	3/8"	NJ	20 / 160
500072	1/2"	NJ	20 / 160

AC 603

Male - male nipple.



Code	Size	Color	Class	Packaging
550099	1/2" M O-ring x 1/2" M O-ring		NJ	100 / 400
550098	3/4" M O-ring x 3/4" M O-ring		NJ	50 / 200
501101	1" M O-ring x 1" M O-ring		NJ	50 / 200
500919	1"1/4 M O-ring x 1" M O-ring		NJ	25 / 100
500912	1"1/4 M O-ring x 1"1/4 M O-ring		NJ	25 / 100
550097	1/2" M O-ring x 1/2" M O-ring		NJ	100 / 400
550096	3/4" M O-ring x 3/4" M O-ring		NJ	50 / 200
500699	1" M O-ring x 1" M O-ring		NJ	50 / 200
500919N	1"1/4 M O-ring x 1" M O-ring		NJ	25 / 100
500913	1"1/4 M O-ring x 1"1/4 M O-ring		NJ	25 / 100

AC 606

Swiveling male - male nipple.



Code	Size	Color	Class	Packaging
500386	3/4" M O-ring x 3/4" M O-ring		NJ	30 / 120
500357	3/4" M O-ring x 1" M O-ring		NJ	30 / 120
500063	1" M O-ring x 1" M O-ring		NJ	20 / 80
500387	1"1/4 M O-ring x 1"1/4 M O-ring		NJ	10 / 40
500386N	3/4" M O-ring x 3/4" M O-ring		NJ	30 / 120
500357N	3/4" M O-ring x 1" M O-ring		NJ	30 / 120
500070	1" M O-ring x 1" M O-ring		NJ	20 / 80
500387N	1"1/4 M O-ring x 1"1/4 M O-ring		NJ	10 / 40

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AC 602

Male - female reducing fitting.



Code	Size	Color	Class	Packaging
550093	1/2" M x 3/8" F		NJ	200 / 800
550094	3/4" M x 3/8" F		NJ	50 / 200
550095	3/4" M x 1/2" F		NJ	100 / 400
550091	1" M x 3/8" F		NJ	50 / 400
501103	1" M x 1/2" F		NJ	50 / 400
501102	1" M x 3/4" F		NJ	50 / 400
500906	1"1/4 M x 1/2" F		NJ	25 / 100
500908	1"1/4 M x 3/4" F		NJ	35 / 140
500910	1"1/4 M x 1" F		NJ	35 / 140
506018	1"1/2 M x 1" F		NJ	20 / 160
500280	1/2" M x 3/8" F		NJ	200 / 800
501099	3/4" M x 3/8" F		NJ	50 / 200
550028	3/4" M x 1/2" F		NJ	100 / 400
550092	1" M x 3/8" F		NJ	50 / 400
500670	1" M x 1/2" F		NJ	50 / 200
501509	1" M x 3/4" F		NJ	50 / 400
500907	1"1/4 M x 1/2" F		NJ	25 / 200
500909	1"1/4 M x 3/4" F		NJ	35 / 140
500911	1"1/4 M x 1" F		NJ	35 / 140

AC 600

Male plug.



Code	Size	Color	Class	Packaging
590082	1/4" M		NJ	150 / 600
550084	3/8" M		NJ	250 / 1000
501108	1/2" M		NJ	200 / 800
550009	3/4" M		NJ	50 / 400
501104	1" M		NJ	50 / 400
500904	1"1/4 M		NJ	20 / 160
506017	1"1/2 M		NJ	20 / 160
550085	3/8" M		NJ	250 / 1000
550086	1/2" M		NJ	200 / 800
550087	3/4" M		NJ	50 / 400
501501	1" M		NJ	50 / 400
500905	1"1/4 M		NJ	35 / 140

AC 624

Female - female reducing fitting.



Code	Size	Color	Class	Packaging
501619	3/4" F x 3/8" F		NJ	100 / 400
501618	3/4" F x 1/2" F		NJ	100 / 400
501620	1" F x 1/2" F		NJ	50 / 400
501621	1" F x 3/4" F		NJ	50 / 400
501619N	3/4" F x 3/8" F		NJ	100 / 400
501618N	3/4" F x 1/2" F		NJ	100 / 400
501620N	1" F x 1/2" F		NJ	50 / 400
501621N	1" F x 3/4" F		NJ	50 / 200

AC 627

Reduced soft seal fitting.



Code	Size	Color	Class	Packaging
550551	3/4" F x 1"1/4 F		NJ	10 / 80
550552	1" F x 1"1/4 F		NJ	10 / 80
550551N	3/4" F x 1"1/4 F		NJ	10 / 80
550552N	1" F x 1"1/4" F		NJ	10 / 80

AC 601

Female plug.



Code	Size	Accessories	Color	Class	Packaging
550016	1/2"	1 gasket		NJ	50 / 400
500022	3/4"	2 gaskets		NJ	100 / 400
500625	1"	1 gasket		NJ	35 / 280
550016N	1/2"	1 gasket		NJ	50 / 400
550090	3/4"	2 gaskets		NJ	100 / 400
500625N	1"	1 gasket		NJ	35 / 280

AC 601 K

Female plug kit with adaptor for flat seal.



Code	Size	Accessories	Color	Class	Packaging
506206	EUROK	2 gaskets		NJ	50 / 400
506206N	EUROK	2 gaskets		NJ	50 / 400

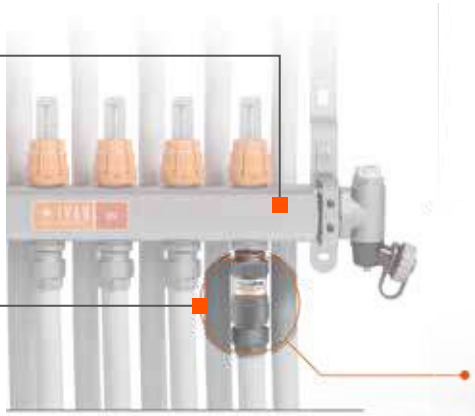
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COMPLEMENTARY ITEMS

FOCUS: AQUASTOP / AQUASTOP XL

On circuits for radiators and designer heating units, it prevents cold water from circulating inside the terminal units which would otherwise drip condensation.

Compact minimised dimensions.





Available in the following versions:
G 3/4" F x EUROK
G 1" F x G 1" M

Cost-effective alternative to the use of servomotors with electronic regulation.

AQUASTOP

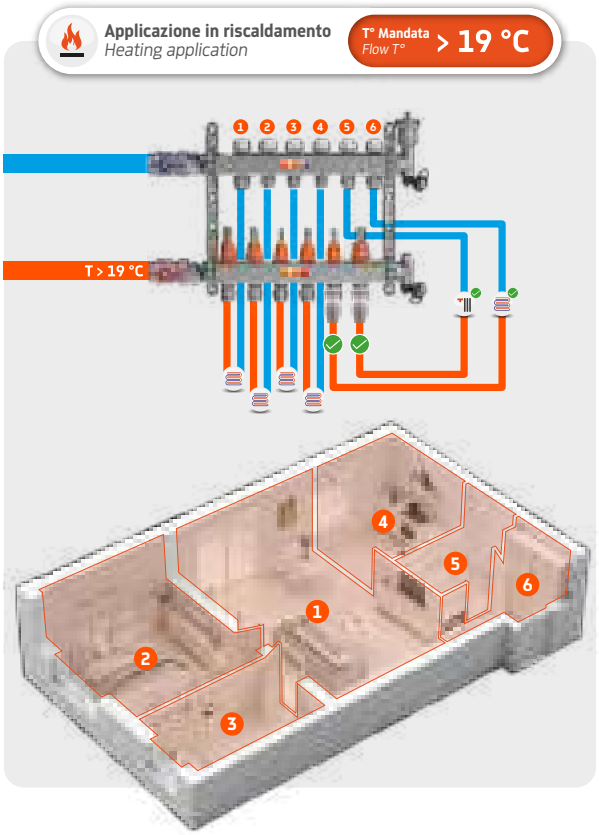


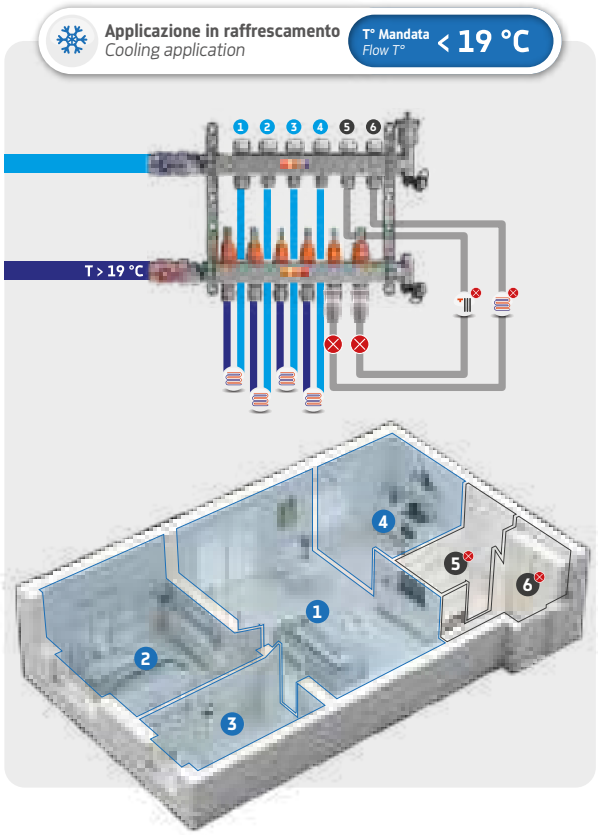
Cold water non-circulation device.

Code	Size	Range	Color	Class	Packaging
500522	3/4" F x EUROK	≤19° C		NJ	10 / 80

AQUASTOP - Installation layout

AQUASTOP during winter operation, circuits 5 and 6, on which AQUASTOP is installed, are regularly supplied with hot water. During summer operation, however, AQUASTOP interrupts the cold water supply to both circuit 5, dedicated to the radiator, and circuit 6, dedicated to the underfloor heating. This prevents condensation from forming on radiators or in particularly humid environments such as bathrooms.





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AQUASTOP XL



Cold water non-circulation device.

Code	Size	Range	Color	Class	Packaging
500495	G 1" F x G 1" M	≤19° C		NJ	10 / 40

AQUASTOP XL - Installation layout 1

In this first application example, AQUASTOP XL is used to section a manifold, with circuits 1 to 3 always supplied and circuits 4 to 6 supplied only during heating.

This is a cost-effective solution compared to installing three different Aquastops on circuits 4, 5 and 6. To connect AQUASTOP XL to the manifold, an AC 606 swivel nipple must be used.

For manifold alignment When using AQUASTOP XL, the AQS 01 spacer pipe is available.



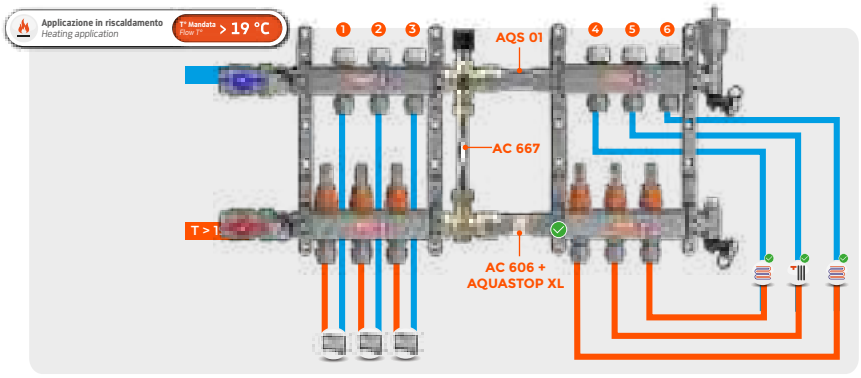
AC 606 >> p. 212

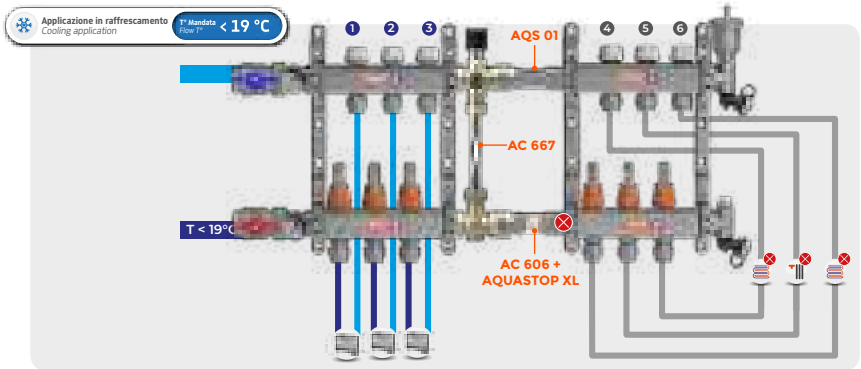


AQS 01 >> p. 216



AC 667 >>p. 210

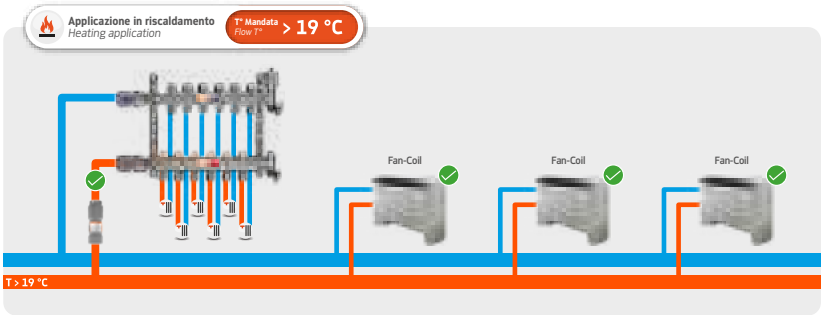


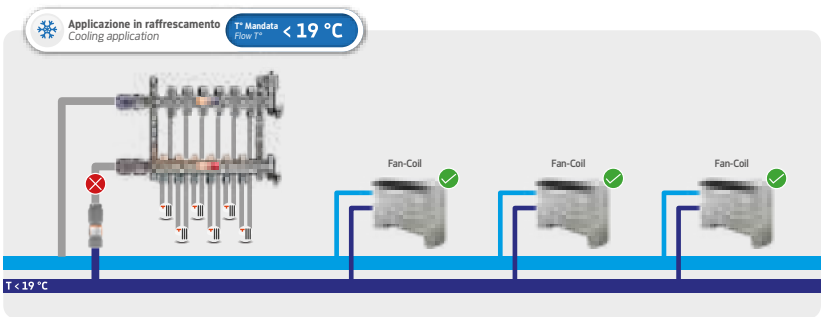


AQUASTOP XL - Installation layout 2

In this second application example, AQUASTOP XL is used to shut off the cold water supply to an entire manifold.

It is important to note that in this case, the device must be installed immediately downstream of the branch and as close to it as possible.





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SPARE PARTS AND COMPLEMENTARY ITEMS

AQS 01



Threaded spacer complete with nipple for aligning manifolds with AQUASTOP XL.

Code	Size	Class	Packaging
500762	1"	NJ	8 / 32

FLC 15



Flow meter.

Code	Size	Range	Class	Packaging
500867	EUROK	1-4 l/min	NJ	20 / 80

AC 674



Flow meter/adjuster FLUXER with position memory.

Code	Range	Class	Packaging
506204	0-5 l/min	NJ	100
506168	0-2,5 l/min	NJ	100

AC 4648



Fitting for flow meter/adjuster FLUXER.

Code	Size	Manifolds type	Class	Packaging
501296N	1/2" M x EUROK	1"	NJ	50 / 200
501297N	1/2" M x EUROK	1"1/4	NJ	50 / 200

VTC 30



Control and isolation screw for brass-rod manifolds.

Code	Class	Packaging
500920	NJ	50 / 200

VTC 30 PL



Control and isolation plastic screw for stainless steel manifolds.

Code	Class	Packaging
500920PL	NJ	50 / 400

VTC 30 OTD



Control and isolation valve with brass insert for manifolds dynamic balancing.

Code	Class	Packaging
500920OTD	NJ	50 / 200

VTC 30 D



Control and isolation valve with plastic insert for manifolds dynamic balancing.

Code	Class	Packaging
500920D	NJ	50 / 200

AC 4612



Fitting for command and isolation insert.

Code	Size	Manifolds type	Class	Packaging
501363N	1/2" M x EUROK	1"	NJ	50 / 400
501368N	1/2" M x EUROK	1"1/4	NJ	50 / 200

VDC 31 PL



Balancing insert with double micrometrical adjustment for stainless steel manifolds.

Code	Color	Class	Packaging
550044NPL		NJ	50 / 200

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TM 3053



Plastic manual head for standard series valves and manifolds.

Code	Color	Class	Packaging
500046	☐	AD	25 / 200

VA 80



Ring nut for electrothermal heads.

Code	Size	Class	Packaging
501533	M30 x 1,5	AC	50 / 400

MCC 05



Reversible hand wheel for modular manifolds EASY LOCK series with manually operated isolation valves.

Code	Manifolds type	Color	Class	Packaging
507139	CI 490 N - CI 390 N CI 400 NBR - CI 350 N	■ or ■ (reversible)	NG	20 / 80

MCC 04 W



Hand wheel for modular manifolds EASY LOCK series with manually operated isolation valves.

Code	Manifolds type	Color	Class	Packaging
507351W	CI 400 N - CI 490 NW	☐	NG	25 / 200

MCC 04 B



Hand wheel for modular manifolds EASY LOCK series with manually operated isolation valves.

Code	Manifolds type	Color	Class	Packaging
507351B	CI 490 NB - CI 400 NB	■	NG	50 / 400

MCC 04 R



Hand wheel for modular manifolds EASY LOCK series with manually operated isolation valves.

Code	Manifolds type	Color	Class	Packaging
507351R	CI 490 NR - CI 400 NR	■	NG	50 / 400

AC 693



Insulating cover for stainless steel manifolds, suitable for radiant heating/cooling systems.

Code	Ways	Manifolds type	Class	Packaging
506270	13	1"	NJ	7

AC 693 F



Kit composed by 2 fixing hose clamps for insulating cover AC 693.

Code	Class	Packaging
500697	NJ	1 / 35

AC 652



Insulating cover for brass-rod manifolds, suitable for radiant heating/cooling systems.

Code	Ways	Manifolds type	Class	Packaging
506253	12	1"	NJ	7
506254	12	1" 1/4	NJ	7
506444	12	1" 1/2	NJ	7

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BALL VALVES

POTABLE WATER COMPATIBILITY

AC 635 NB



Male-female straight ball valve without fitting, butterfly operation (blue).

Code	Size	Color	Class	Packaging
501352NB	1/2" F x 3/4" M		NO	12 / 96
501353NB	3/4" F x 1" M		NO	10 / 80
501354NB	1" F x 1"1/4 M		NO	6 / 48
501455B	1"1/4 F x 1"1/2 M		NO	6 / 48

AC 635 NR



Male-female straight ball valve without fitting, butterfly operation (red).

Code	Size	Color	Class	Packaging
501352N	1/2" F x 3/4" M		NO	12 / 96
501353N	3/4" F x 1" M		NO	10 / 80
501354N	1" F x 1"1/4 M		NO	6 / 48
501455	1"1/4 F x 1"1/2 M		NO	6 / 48

AC 654 NB



Male-female straight ball valve complete with soft-seal fitting, butterfly operation (blue).

Code	Size	Color	Class	Packaging
506400B	1/2"		NO	12 / 96
506401B	3/4"		NO	8 / 32
506402B	1"		NO	6 / 48
506403B	1"1/4		NO	3 / 24

AC 654 NR



Male-female straight ball valve complete with soft-seal fitting, butterfly operation (red).

Code	Size	Color	Class	Packaging
506400R	1/2"		NO	12 / 96
506401R	3/4"		NO	8 / 32
506402R	1"		NO	6 / 48
506403R	1"1/4		NO	3 / 24

AC 655 NST



Pair of male-female straight ball valves with soft-seal fitting, butterfly operation.

Code	Size	Color	Class	Packaging
506404	1/2"	/	NO	6 / 48
506405	3/4"	/	NO	5 / 20
506406	1"	/	NO	2 / 16
506407	1"1/4	/	NO	2 / 8

AC 655 N



Pair of male-female straight ball valves with soft-seal fitting and thermometer, butterfly operation.

Code	Size	Color	Class	Packaging
520132	1"	/	NO	1 / 12
520133	1"1/4	/	NO	1 / 8

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POTABLE WATER COMPATIBILITY

AC 636 NB



Female-female straight ball valve, butterfly operation (blue).

Code	Size	Color	Class	Packaging
501905NB	3/4"		NO	10 / 80
501418NB	1"		NO	8 / 64
506299NB	1"1/4		NO	8 / 64

AC 636 NR



Female-female straight ball valve, butterfly operation (red).

Code	Size	Color	Class	Packaging
501905NR	3/4"		NO	10 / 80
501418NR	1"		NO	8 / 64
506299NR	1"1/4		NO	8 / 32

AC 635 BCM



Male-female straight ball valve complete with simple fitting, lever operation (blue).

Code	Size	Color	Class	Packaging
506257B	1"1/2		NO	2 / 8

AC 635 RCM



Male-female straight ball valve complete with simple fitting, lever operation (red).

Code	Size	Color	Class	Packaging
506257R	1"1/2		NO	2 / 8

AC 635 BRCM



Pair of male-female straight ball valves with simple fitting, lever operation.

Code	Size	Color	Class	Packaging
506408	1"1/2	/	NO	1 / 4

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POTABLE WATER COMPATIBILITY

AC 643 NB



Male-female square ball valve without fitting, butterfly operation (blue).

Code	Size	Color	Class	Packaging
508000NB	3/4" F x 1" M		NO	8 / 64
508001NB	1" F x 1"1/4 M		NO	5 / 40
508002NB	1" F x 1"1/2 M		NO	8 / 32

AC 643 NR



Male-female square ball valve without fitting, butterfly operation (red).

Code	Size	Color	Class	Packaging
508000NR	3/4" F x 1" M		NO	8 / 64
508001NR	1" F x 1"1/4 M		NO	5 / 40
508002NR	1" F x 1"1/2 M		NO	8 / 32

AC 682 NST



Pair of male-female angle ball valves complete with soft seal fitting, butterfly operation.

Code	Size	Color	Class	Packaging
508005ST	1" F x 1" M	/	NO	2 / 8
508006ST	1" F x 1"1/4 M	/	NO	2 / 8

AC 682 N



Pair of male-female angle ball valves complete with soft seal fitting and thermometer, butterfly operation.

Code	Size	Color	Class	Packaging
508005	1" F x 1" M	/	NO	2 / 8
508006	1" F x 1"1/4 M	/	NO	2 / 8

AC 617 I



Thermometer for angle ball valves.

Code	Class	Packaging
508010	NO	50 / 400

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POTABLE WATER COMPATIBILITY

AC 622 NDST



Pair of male-female straight ball valves with soft-seal fitting, butterfly operation.

Code	Size	Color	Class	Packaging
506104	1"	■ / ■	NO	1 / 30

AC 622 ND



Pair of male-female straight ball valves with soft-seal fitting and thermometer, butterfly operation.

Code	Size	Color	Class	Packaging
506100	1"	■ / ■	NO	1 / 10

AC 622 NSST



Pair of male-female angle ball valves with soft-seal fitting, butterfly operation.

Code	Size	Color	Class	Packaging
506105	1"	■ / ■	NO	1 / 30

AC 622 NS



Pair of male-female angle ball valves complete with soft seal fitting and thermometer, butterfly operation.

Code	Size	Color	Class	Packaging
506101	1"	■ / ■	NO	1 / 10

AC 658 N



Pair of straight ball valves with male swivelling fitting and built-in thermometer.

Code	Size	Color	Class	Packaging
506236	1"	■ / ■	NO	1

AC 669 N



Pair of straight/square ball valves with swivelling male fitting and built-in thermometer.

Code	Size	Color	Class	Packaging
506237	1"	■ / ■	NO	1

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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.

AC 645 G

3 connection soft seal fitting for ball valves with 1“1/4 rotating nut.



Code	Size	Accessories	Class	Packaging
500073G	1“1/4 F - 3 x 1/2“ F	1 1/4“ rotating nut	NJ	10 / 80

AC 645

3 connection soft seal fitting for ball valves.



Code	Size	Class	Packaging
500073	1“ F - 3 x 1/2“ F	NJ	10 / 80

AC 619

Square fitting without drain for ball valves.



Code	Size	Class	Packaging
500523	1“	NJ	10 / 80

AC 619 L

Square long fitting without drain for ball valves.



Code	Size	Class	Packaging
500528	1“	NJ	10 / 80

AC 619 S

Square fitting with drain for ball valves.



Code	Size	Class	Packaging
500526	1“ x 1/2“	NJ	10 / 80

AC 619 LS

Square long fitting with drain for ball valves.



Code	Size	Class	Packaging
500529	1“ x 1/2“	NJ	10 / 40

AC 637 N

Soft seal fitting with adjustable thermometer for ball valves.



Code	Size	Class	Packaging
501356N	1“1/4 F x 1“ M	NJ	9 / 36
501357N	1“1/2 F x 1“1/4 M	NJ	8 / 32

AC 6450

Soft seal fitting for ball valves with adjustable thermometer, automatic vent valve and adjustable draining cock. G = with 1“1/4 rotating nut.



Code	Size	Accessories	Class	Packaging
500124	1“ F x 1“ M		NJ	4 / 32
500124G	1“1/4 F x 1“ M	1 1/4“ rotating nut	NJ	4 / 32

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BF 400 R



Female-female ball valve with filter and magnet.

Code	Size	Class	Packaging
550201	1/2“	NO	27
550202	3/4“	NO	18
550203	1”	NO	9
550204	1”1/4	NO	9
550205	1”1/2	NO	6
550206	2”	NO	4

SF 1570



Male-female straight ball valve, butterfly operation

Code	Size	Class	Packaging
500379	1/2” F x 1/2” M	NJ	20 / 160

SF 1335 F



Straight ball valve with butterfly turn and rotating nut.

Code	Size	Class	Packaging
501398	EUROK x 3/4“ EUROK swivel	NJ	20 / 160

SF 1325 F



Butterfly operated straight ball valve with soft seal fitting.

Code	Size	Class	Packaging
500893	EUROK x 1/2“M O-ring	NJ	20 / 80

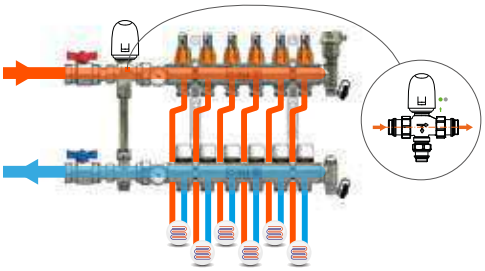
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ZONE VALVES

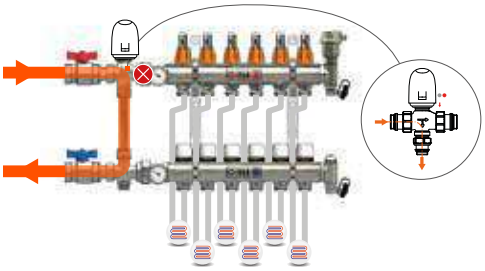
The zone valves are shutoff and bypass devices that enable control of the flow to distribution terminals such as manifolds. These devices are used in so-called separate zone systems: an ambient thermostat manages opening of the zone valve and thus the flow of heating fluid to the utilities in the relative zone.
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.

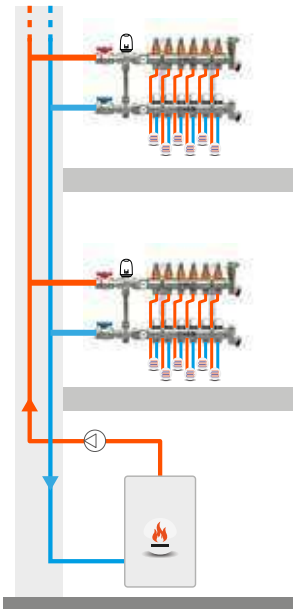
Alternatively, the VZS range includes the ball zone valves. This type is used to reduce pressure drops and is therefore ideal mainly in situations where high flow rates are required. They also feature relatively low manoeuvre times thanks to the AVZS actuators which trigger opening/closure of the valve in 25 s – 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



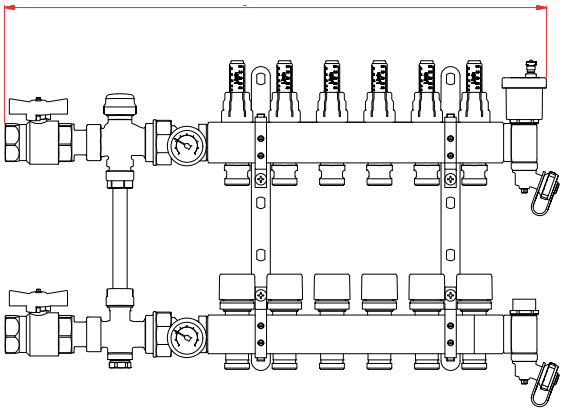
Zone valve + manifolds, flow with OFF





Example of zone valve + manifold operation

Manifolds kit width and suitable cabinet



Manifold	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways	13 Ways
1" brass 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
1" stainless steel manifolds kit width	388 mm	438 mm	488 mm	538 mm	588 mm	638 mm	688 mm	738 mm	788 mm	838 mm	888 mm	938 mm
AC 841 E - Cabinet code	200171	200172	200172	200172	200172	200173	200173	200173	200173	200174	200174	200174
Cabinet width	500 mm	700 mm	700 mm	700 mm	700 mm	900 mm	900 mm	900 mm	900 mm	1.100 mm	1.100 mm	1.100 mm

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VZ 00



Piston zone valve with adjustable bypass and position memory for manifolds.

Code	Size	OC distance	Depth	Class	Packaging
550700	3/4" O-ring	200 mm	110 mm	NY	1 / 10
550715P80	1" O-ring	200 mm	80 mm	NY	1 / 25
550715	1" O-ring	200 mm	110 mm	NY	1 / 10

VZ 30



3-way diverter piston zone valve.

Code	Size	Class	Packaging
550710	3/4" M O-ring x 1/2" M O-ring x 3/4" M O-ring	NY	1 / 32
550711	1" M O-ring x 1/2" M O-ring x 1" M O-ring	NY	1 / 32



Electrothermal heads >>p. 444

VZS 00



2-way ball zone valve.

Code	Size	Class	Packaging
506210	3/4" M O-ring	NX	1 / 32
506211	1" M O-ring	NX	1 / 32
506212	1"1/4 M O-ring	NX	1 / 32

VZS 05



2-way ball zone valve with double fitting.

Code	Size	Class	Packaging
506222	3/4" M O-ring x 3/4" M O-ring	NX	1 / 32
506223	1" M O-ring x 1" M O-ring	NX	1 / 32
506224	1"1/4 M O-ring x 1"1/4 M O-ring	NX	1 / 8

VZS 10



3-way diverter ball zone valve.

Code	Size	Class	Packaging
506220	3/4" O-ring x 3/4" O-ring x 3/4" O-ring	NX	1
506221	1" O-ring x 1" O-ring x 1" O-ring	NX	2 / 8

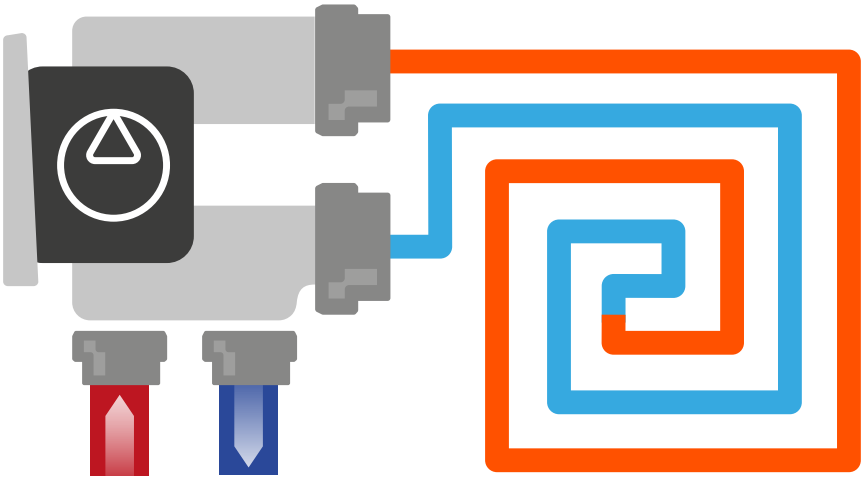


Motors for ball zone valves >>p. 443

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RADIANT SYSTEMS



INDEX


HEAT PUMP KIT - Pump unit for heat pumps systems 230


2-way axial valves for high flow capacity 232


COMBIMIX - Mixing and pump unit for radiant systems 234


TECHNOMIX - Mixing and pump unit for radiant systems 238


MULTIFLOOR - Mixing and pump unit for radiant systems 239


UNIMIX•C - Mixing and pump unit for radiant systems 240


UNIFLOOR - Mixing and distribution unit for single radiant circuit 244


Pumps 245


IC•BOX - Non-mixed compact radiant system 246



Panels for radiant floor systems 250



Accessories for radiant floor systems 258

HEAT PUMP KIT

Heat Pump Kit is a booster system to be used in combination with heat pumps, or more generally where control of the flow temperature is not required.
The system has fittings for connection of the circulation pump, and the flow temperature to the terminal devices is managed directly upline, typically by the heat pump itself.

Heat Pump Kit features an inlet fitting with four connections, two of which are on a swivelling body.
The system stands out for its ease of installation thanks to this feature, as the fitting can be oriented in different ways.

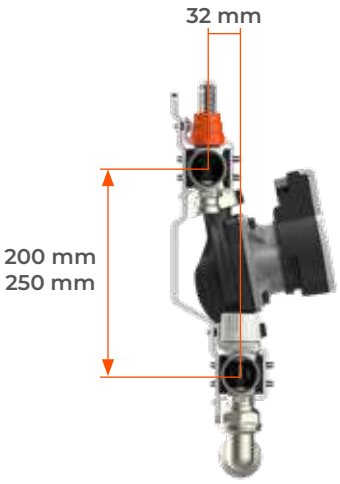
Heat Pump Kit can therefore be installed to the left or right of the distribution manifold, making up the offset between the flow and return manifold, and with connections to the primary circuit at the side or bottom.

The kit can be used in combination with manifolds with 200 mm centre distance if a pump with 130 mm centre distance is used, or coupled with manifolds with 250 mm centre distance if a pump with 180 mm centre distance is used.
The kit is supplied with or without booster pump.

Moreover, by setting the circulation pump in constant Δp mode, the system already offers dynamic balancing at the ends of the distribution manifold without the need to install further dynamic balancing components on the manifolds.

+ PLUS

- Booster unit for heat pump applications.
- Versatility of installation.
- Installation to the left or right of the distribution manifolds.
- Connections to primary from the sides or bottom.
- Use with pumps with 130 mm or 180 mm centre distance.



IDEAL for INSTALLATIONS with
HEAT PUMPS

HEAT PUMP KIT

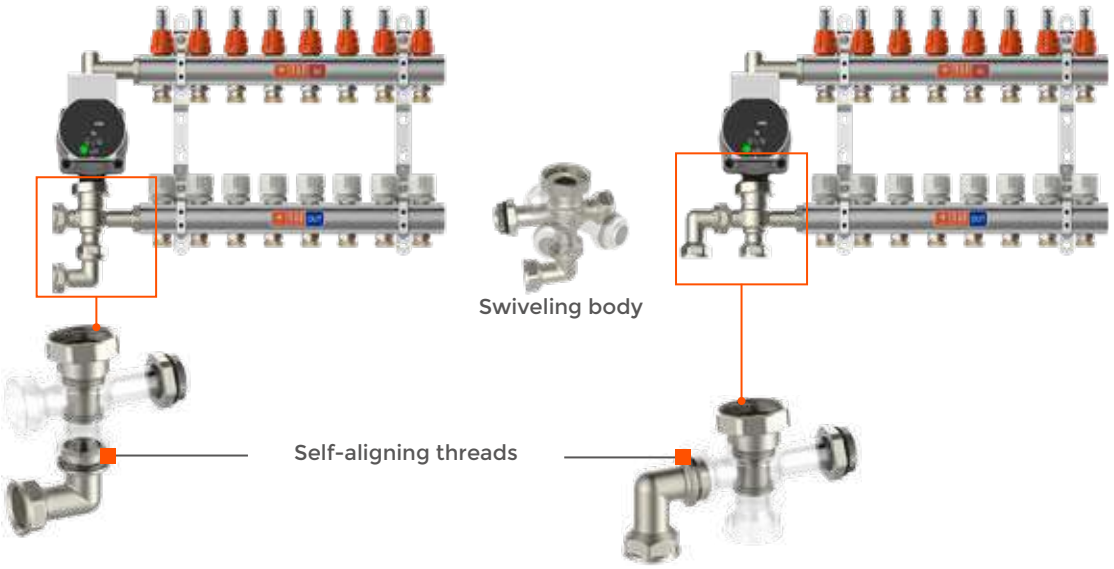


Pump connection unit with swivel fitting, with/without 130 mm variable speed electronic pump. Suitable for systems with flow temperature control carried out upstream of the manifold, for example heat pump systems.

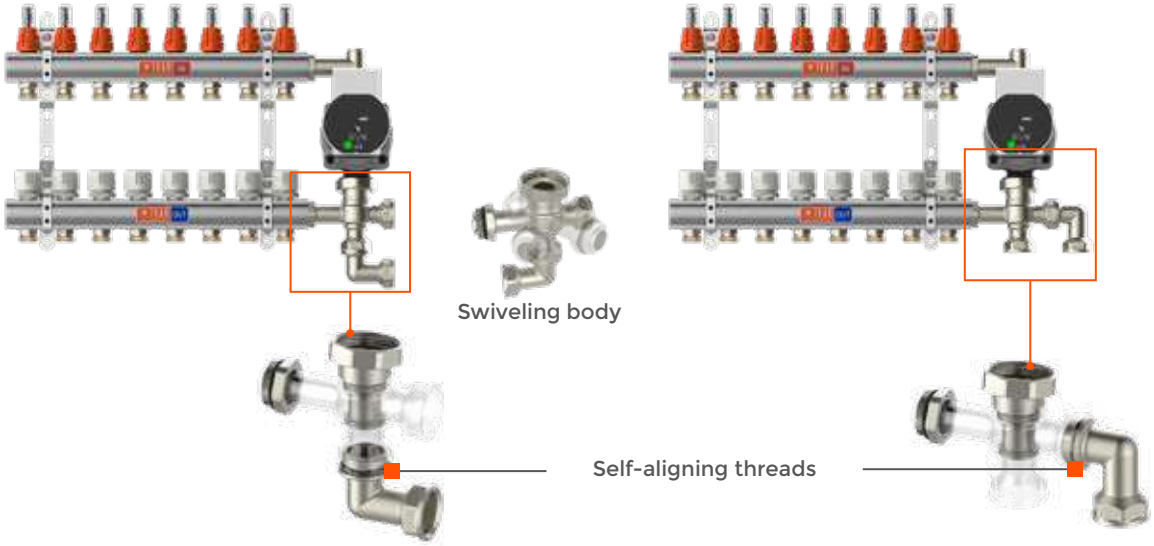
Code	Pump	Size	Manifolds type	Class	Packaging
530071			1"	NL	1 / 4
530071PE	WILO4F	130 mm	1"	NL	1

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Manifold positioned to the right



Manifold positioned to the left



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2-WAY AXIAL VALVES

VDS 01

Angle/straight thermostatic valve for high flow capacity



Code	Size	Class	Packaging
500388	3/4" F x 3/4" M O-ring	BA	5 / 40
500403	3/4" F x 1" M O-ring	BA	5 / 20

T 5011

Thermostatic head with incorporated command and remote immersion sensor.



Code	Size	Range	Length	Class	Packaging
501175	M30 x 1,5 - 1/2"	20-60 °C	2 m	AA	5 / 40

T 5012

Thermostatic head with incorporated command and remote contact sensor



Code	Size	Range	Length	Class	Packaging
501176	M30 x 1,5	20-60 °C	2 m	AA	5 / 40

AGE 20

Probe holder fitting.



Code	Size	Class	Packaging
500638	1" F x 1" M O-ring	NL	1 / 25

AGE 13

Thermometer well for T 5011 and T 5011 U thermostatic heads.



Code	Actuator	Size	Class	Packaging
500530	T 5011	1/2"	AE	25 / 200
500530U	T 5011 U	1/2"	AE	25 / 200

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VDS 02



Angle/straight motorized valve for high flow capacity.

Code	Size	Class	Packaging
500388M	3/4" F x 3/4" M O-ring	BA	5 / 40
500403M	3/4" F x 1" M O-ring	BA	5 / 40

TE 3061



Electrothermal head normally closed (proportional control 0-10 V). Suitable for all IVAR thermostatic inserts.

Code	Size	Class	Packaging
500887	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	AC	100

RV 01



Axial motor. Suitable for all IVAR thermostatic inserts.

Code	Size	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC/DC)	PC	1 / 100



CLIMA•HUB - Electronic controller for heating and cooling systems >>p. 433

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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.*

+ 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

Mixing unit

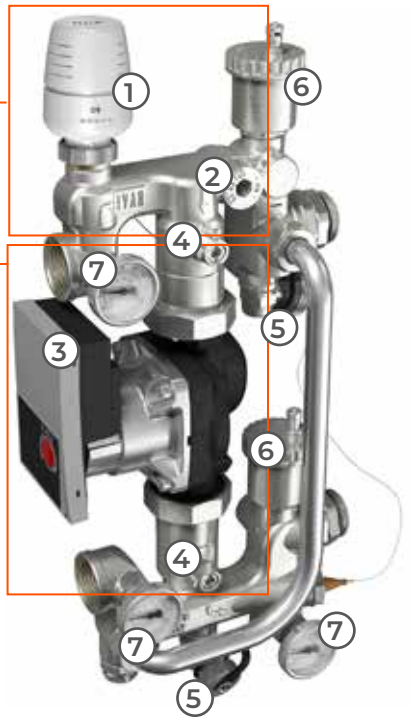
1. 2-way control valve with motor drive or controlled by thermostat head
2. Mixing balancing valve

Booster unit

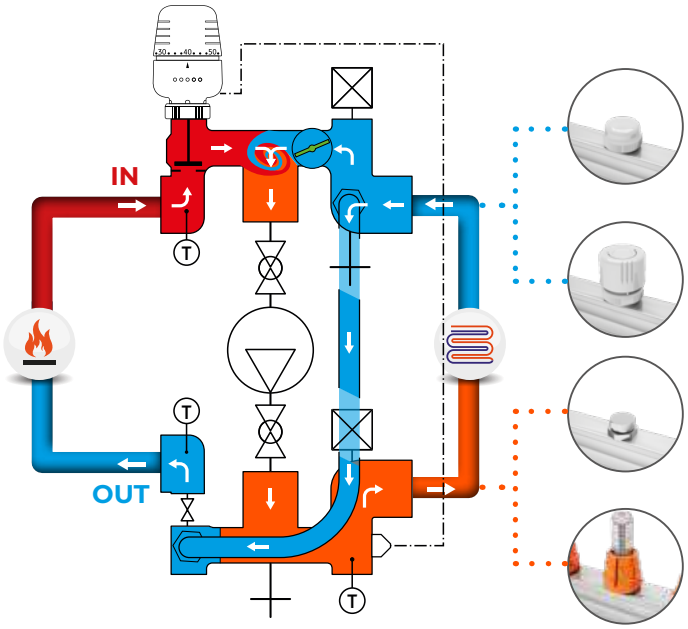
3. High-efficiency variable rpm pump; centre-to-centre distance 130 mm or 180 mm
4. Shutoff ball valve

Accessories

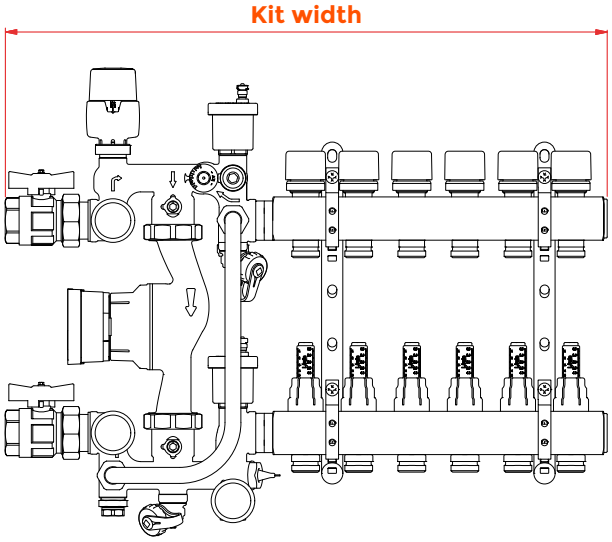
5. Filler/drain valves
6. Automatic air vent valves
7. Thermometers



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DIMENSIONS OF COMBIMIX MODULES WITH PRE-ASSEMBLED MANIFOLDS AND SUITABLE CABINET

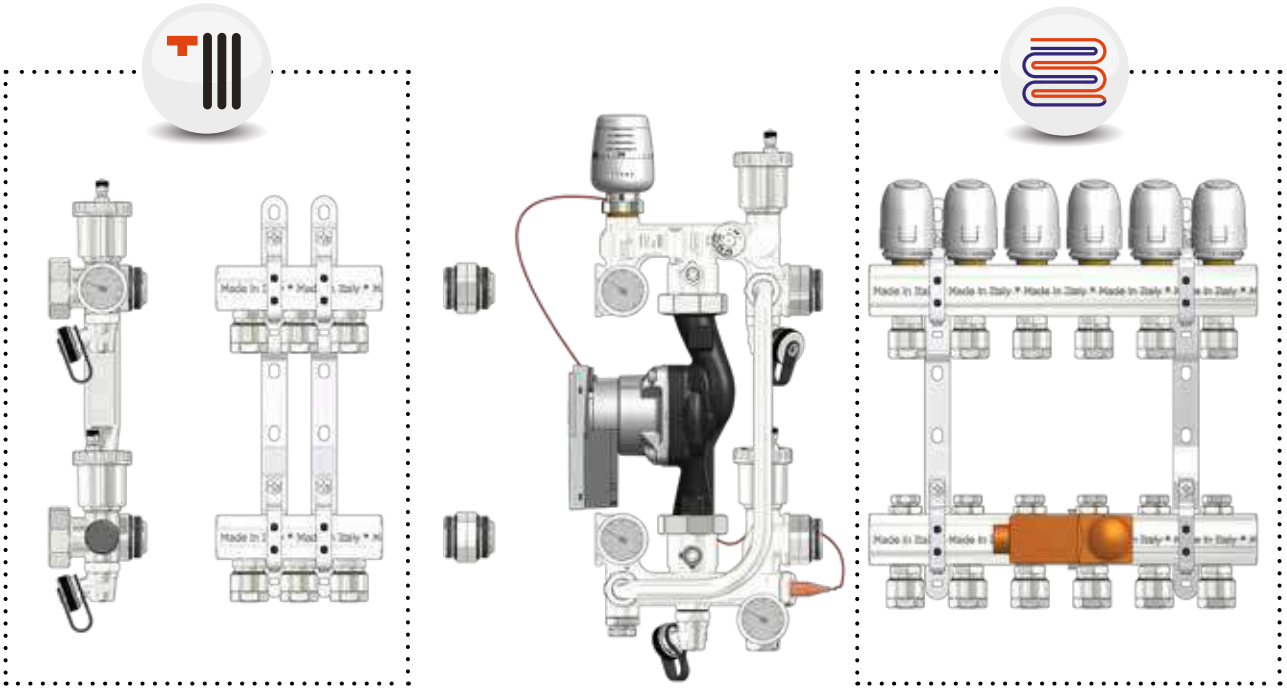


Low temperature manifold	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways	13 Ways
Width COMBIMIX + Low temp. brass manifold 1"	367 mm	417 mm	467 mm	517 mm	567 mm	617 mm	667 mm	717 mm	767 mm	817 mm	867 mm	917 mm
Width COMBIMIX + Low temp. stainless steel manifold 1"	385 mm	435 mm	485 mm	535 mm	585 mm	635 mm	685 mm	735 mm	785 mm	835 mm	885 mm	935 mm
 AC 830 - Cabinet code Cabinet width	**200089** 500 mm	**200590** 600 mm	**200590** 600 mm	**200090** 700 mm	**200090** 700 mm	**200690** 800 mm	**200690** 800 mm	**200190** 900 mm	**200190** 900 mm	**200790** 1.000 mm	**200790** 1.000 mm	**200290** 1.100 mm

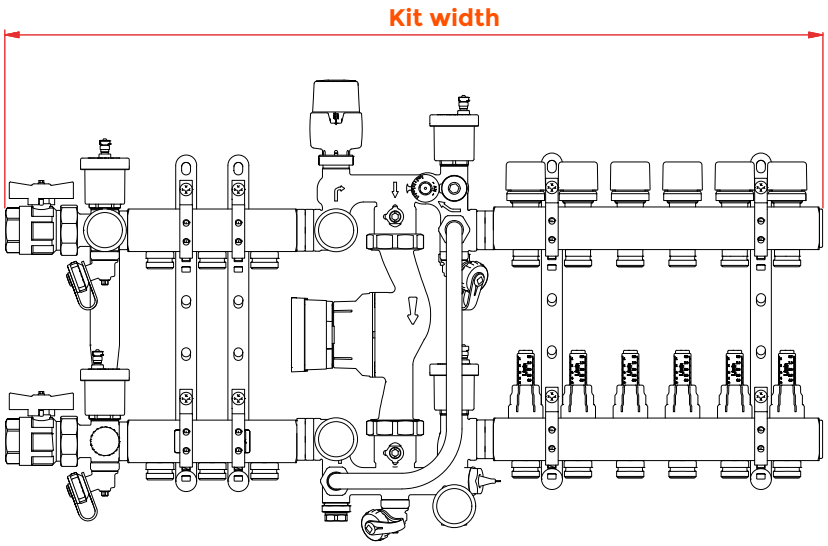
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FOCUS: High temperature kit

The COMBIMIX system offers the option to supply high temperature components directly using the boiler fluid with standard manifolds connected to the primary connectors using two AC 606 nipples.



DIMENSIONS OF COMBIMIX MODULES WITH PRE-ASSEMBLED MANIFOLDS AND SUITABLE CABINET



Low temperature manifold	2 Ways	3 Ways	4 Ways	5 Ways	6 Ways	7 Ways	8 Ways	9 Ways	10 Ways	11 Ways	12 Ways	13 Ways
Width COMBIMIX + Low temp. brass manifold 1" + 3-way high temp. manifolds kit	582 mm	632 mm	682 mm	732 mm	782 mm	832 mm	882 mm	932 mm	982 mm	1.032 mm	1.082 mm	1.132 mm
Width COMBIMIX + Low temp. stainless steel manifold 1" + 3-way high temp. manifolds kit	600 mm	650 mm	700 mm	750 mm	800 mm	850 mm	900 mm	950 mm	1.000 mm	1.050 mm	1.100 mm	1.150 mm
AC 830 - Cabinet code Cabinet width	200690 800 mm	200690 800 mm	200190 900 mm	200190 900 mm	200790 1.000 mm	200790 1.000 mm	200290 1.100 mm	200290 1.100 mm	200890 1.200 mm	200890 1.200 mm	200390 1.300 mm	200390 1.300 mm

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COMBI TNB



Fixed setting COMBIMIX regulator unit (T 5011 thermostatic head included) for radiant systems with/without 130/180 mm variable speed electronic pump.

Code	Actuator	Bypass	Pump	Size	Class	Packaging
500454NB	T 5011	-	-	130 mm	NL	1
500410NB	T 5011	-	-	180 mm	NL	1
500454PE	T 5011	-	WILO4F	130 mm	NL	1
500410PE	T 5011	-	WILO4F-180	180 mm	NL	1

COMBI T



Fixed setting COMBIMIX regulator unit (T 5011 thermostatic head included) for radiant systems with/without 130/180 mm standard 3-speed pump.

Code	Actuator	Bypass	Pump	Size	Class	Packaging
500454	T 5011	✓	-	130 mm	NL	1
500410	T 5011	✓	-	180 mm	NL	1
500454P	T 5011	✓	WILO3F	130 mm	NL	1

COMBI MNB



COMBIMIX motorized regulation unit for radiant systems with/without 130/180 mm variable speed electronic pump.

Code	Actuator	Bypass	Pump	Size	Class	Packaging
501728NB	-	-	-	130 mm	NL	1
501729NB	-	-	-	180 mm	NL	1
501728PE	-	-	WILO4F	130 mm	NL	1
501729PE	-	-	WILO4F-180	180 mm	NL	1



RV 01 >> p. 233,241,277,287,442



TE 3061 >>p. 233,287,445

COMBI M



COMBIMIX motorized regulation unit for radiant systems with/without 130/180 mm standard 3-speed pump.

Code	Actuator	Bypass	Pump	Size	Class	Packaging
501728	-	✓	-	130 mm	NL	1
501729	-	✓	-	180 mm	NL	1
501728P	-	✓	WILO3F	130 mm	NL	1
501729P	-	✓	WILO3F-180	180 mm	NL	1



RV 01 >> p. 233,241,277,287,442



TE 3061 >>p. 233,287,445

ACM 01



Insulating cover for COMBIMIX.

Code	Class	Packaging
506255	NL	4

SC 01 COMBI



Heat exchanger kit for COMBIMIX.

Code	Class	Packaging
502001	NL	1

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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).

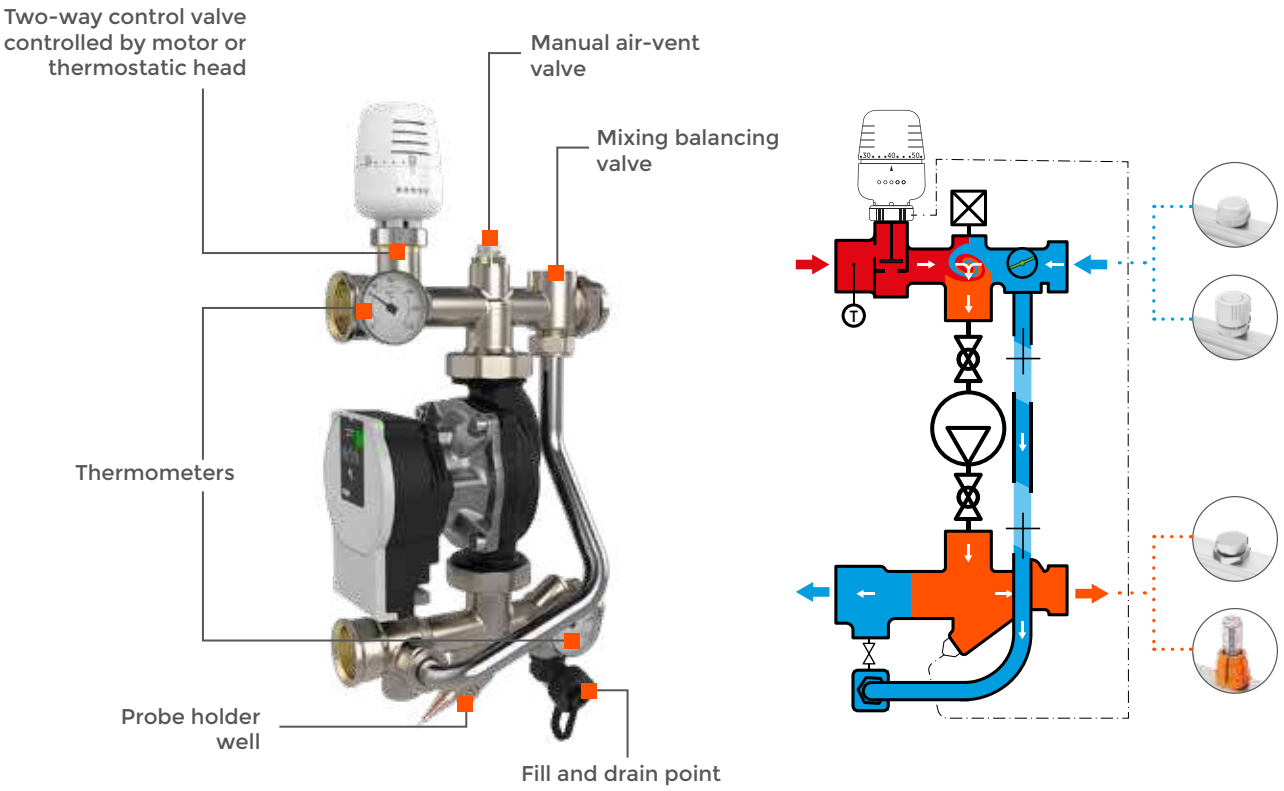
The unit is available in version with fixed-point adjustment by thermostatic head, or version suitable to weather-compensated adjustment by servomotor and controller with outdoor sensor. In the latter version, **TECHNOMIX** can be used also in cooling applications.

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



Fixed setting TECHNOMIX regulator unit for radiant systems.

Code	Actuator	Pump	Size	Class	Packaging
508100	T 5011	-	130 mm	NL	1
508100PE	T 5011	WILO4F	130 mm	NL	1

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MULTIFLOOR

MULTIFLOOR is a mixing and boosting unit for radiant underfloor systems.

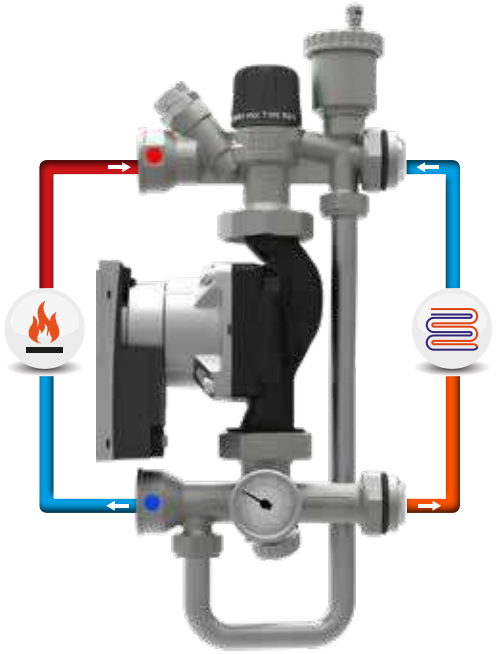
An adjustable thermostatic mixer keeps the delivery temperature stable at the required value, which can be set by means of a simple knob.

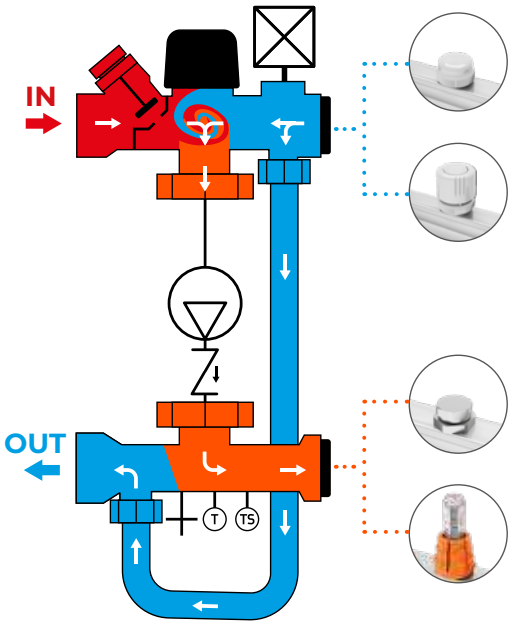
Complete with flow temperature gauge, safety thermostat, shutoff valve on inlet, air purge/filler valves, **MULTIFLOOR** offers a ready-to-use solution with compact dimensions and easily accessible, completely reversible for left/right installations.

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



Mixing and pump kit with/without 130 mm pump for radiant systems MULTIFLOOR.

Code	Pump	Range	Erp	Class	Packaging
500414	-	28-53 °C	-	NL	1
500414P	WILO3F	28-53 °C	-	NL	1
500414PE	WILO4F	28-53 °C	✓	NL	1

AMF 01



Insulating cover for MULTIFLOOR.

Code	Class	Packaging
506271	NL	5

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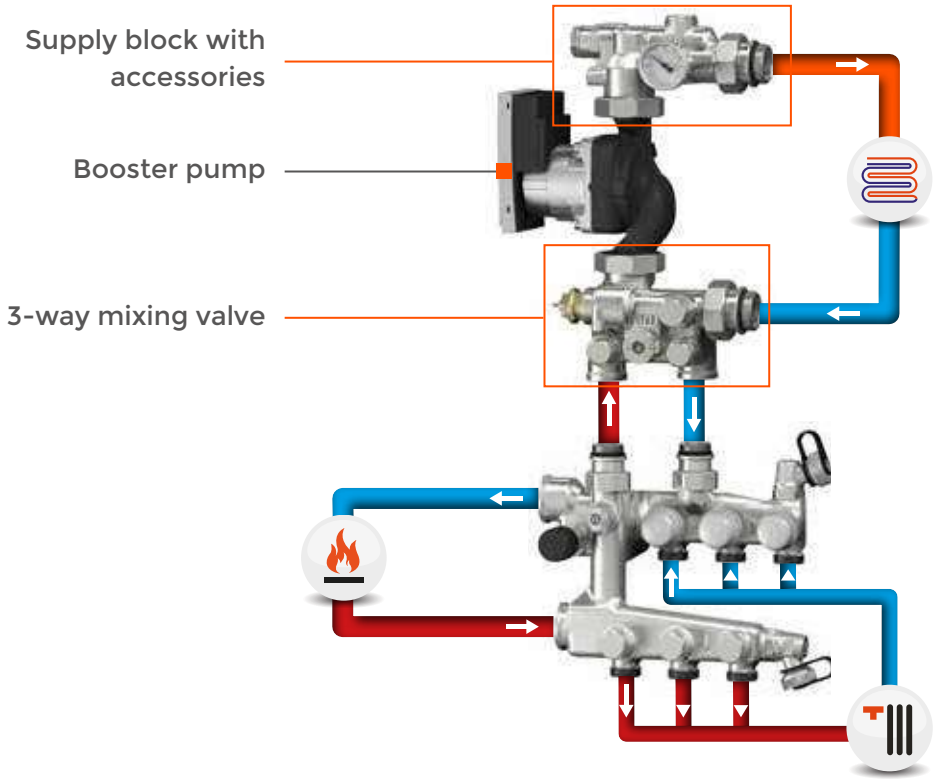
UNIMIX•C

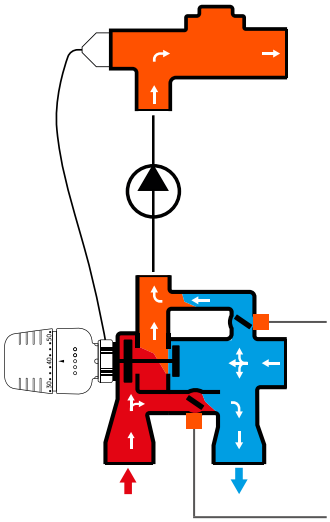
UNIMIX•C is a mixing system that, thanks to attentive simplification, has been developed to become a compact version of UNIMIX without losing its functional and performance features.

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
- 3-way mixing control valve
- Manifold kit with dedicated straight branches





Secondary bypass:
- improved mixing control
- increased flow rate to circuit

Primary bypass:
- circulation on generator
- balancing

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UMC 01



UNIMIX-C regulation unit with/without pump.

Code	Pump	Erp	Class	Packaging
500897WP		-	NL	1
500897	WILO3F	-	NL	1
500897E	WILO4F	✓	NL	1

UMC 01 D/S



UNIMIX-C regulation unit with/without pump, with straight (D) or angle (S) ball valves.

Code	Included Accessories	Pump	Erp	Class	Packaging
500897DWP	Straight ball valves		-	NL	1
500897D	Straight ball valves	WILO3F	-	NL	1
500897DE	Straight ball valves	WILO4F	✓	NL	1
500897SWP	Angle ball valves		-	NL	1
500897S	Angle ball valves	WILO3F	-	NL	1
500897SE	Angle ball valves	WILO4F	✓	NL	1

T 5011 U



Thermostatic head with incorporated control and immersion remote sensor.

Code	Size	Range	Length	Class	Packaging
501175U	M30 x 1,5 - 1/2"	30-55 °C	1 m	AA	5 / 40

RV 01



Axial motor. Suitable for all IVAR thermostatic inserts.

Code	Size	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC/DC)	PC	1 / 100



CLIMA•HUB - Electronic controller for heating and cooling systems >>p. 433

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AUM 01



High temperature kit for UNIMIX / UNIMIX-C with plain manifolds.

Code	Ways	Size	Class	Packaging
500456	3	EUROK	NL	1

AUM 11 D/S



High temperature kit for UNIMIX / UNIMIX-C with plain manifolds and straight (D) or angle (S) ball valves.

Code	Included Accessories	Ways	Size	Class	Packaging
500456D	Straight ball valves	3	EUROK	NL	1
500456S	Angle ball valves	3	EUROK	NL	1

AUM 02



High temperature kit for UNIMIX / UNIMIX-C with manifolds with isolation valves.

Code	Ways	Size	Class	Packaging
500586	3	EUROK	NL	1

AUM 12 D/S



High temperature kit for UNIMIX / UNIMIX-C with manifolds with isolation valves and straight (D) or angle (S) ball valves.

Code	Included Accessories	Ways	Size	Class	Packaging
500586D	Straight ball valves	3	EUROK	NL	1
500586S	Angle ball valves	3	EUROK	NL	1

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AC 613 FU



Fixed setting safety thermostat pre-wired.

Code	Max operating temp.	Class	Packaging
580014U	60 °C	VA	1 / 8

AC 613 SU



Pre-wired security thermostat with immersion probe.

Code	Class	Packaging
580001U	VA	1 / 8

AC 613 CU



Safety thermostat with pre-wired contact.

Code	Class	Packaging
580000U	VA	1 / 8

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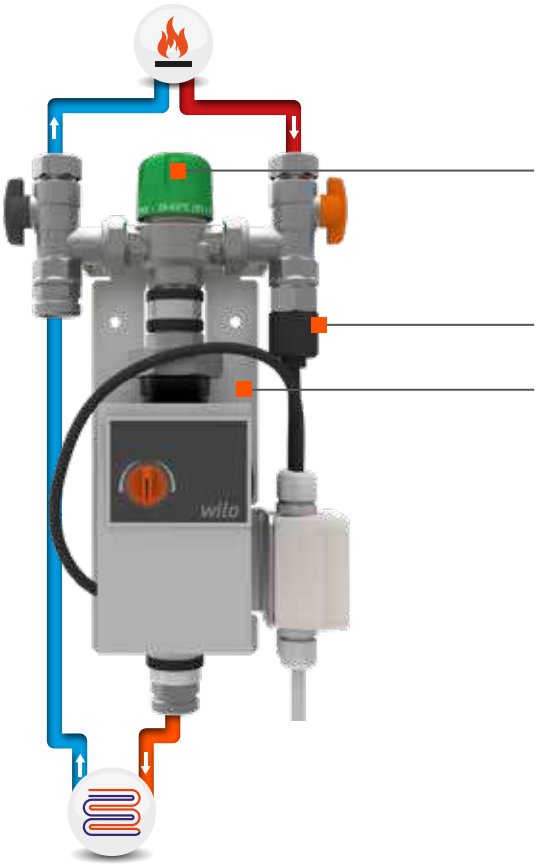
UNIFLOOR

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.



Adjustable thermostatic mixer 35-65 °C

Starter thermostat 40 °C

Metal frame with vibration damping brackets

UF 01



Mixing and distribution unit with/without 130 mm variable speed electronic pump for single radiant circuit UNIFLOOR.

Code	Pump	Range	Class	Packaging
506717WP	-	35-65 °C	NL	1
506717W	WILO4F	35-65 °C	NL	1



AC 4615 N >>p. 212

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PUMPS

WILO4F



Variable speed electronic circulator.

Code	Size	Model	Class	Packaging
WILO4F-G1	1" - 130 mm	WILO PARA 15-130/7-50/SCU-6	HK	1 / 4
WILO4F	1"1/2 - 130 mm	WILO PARA 25-130/7-50-SC	HK	3
WILO4F-180	1"1/2 - 180 mm	WILO PARA 25-180/7-50-SC	HK	3

WILO3F



3-speed standard circulator.

Code	Size	Model	Class	Packaging
WILO3F	1"1/2 - 130 mm	WILO STAR RS 25/6-130	HK	5
WILO3F-180	1"1/2 - 180 mm	WILO STAR RS 25/6-180	HK	2

AC 633



Threaded spacer for pumps.

Code	Size	Class	Packaging
500933	1"1/2 - 130 mm	HK	25
500934	1"1/2 - 180 mm	HK	20

AC 626



Soft seal pipe union for pump connection.

Code	Size	Class	Packaging
520022	1"1/2 F x 1" M	NJ	8 / 64

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IC•BOX

IC-BOX is a practical and economical system for adding a radiant heating circuit to a high-temperature system.

A typical use case is in a bathroom remodel. Many people are particularly fond of the feeling provided by underfloor heating, particularly in a location where they are generally barefoot. Normally, incorporating a radiant underfloor heating circuit in a high-temperature system would require a mixing system (to lower the temperature of the water circulating under the floor) and a circulation pump. In addition to these expenses, there is also the running cost of the electricity for the circulation pump. With **IC-BOX**, on the other hand, neither mixing nor pumping is required. The temperature of the water circulating in the radiant circuit is managed by an RTL device, while the ambient temperature control can be performed by a thermostatic head or an electrothermic head.
What does RTL mean? It stands for "Return Temperature Limiter", and it is a device containing a thermostatic element and a regulation knob. Adjusting the knob limits the return temperature to a certain value (note that the device is installed at the end of the coil, before the water returns to the existing high-temperature distribution). As the water gradually approaches the set-point set with the knob, the thermostatic element in the RTL device expands, with two results:

1. Limiting the flow rate in the coil
2. Encouraging heat exchange between the coil and the screed around the underfloor heating system, increasing the temperature difference between the flow and return in the coil.

When comparing the operating conditions of a "traditional" radiant system (on the left) and a radiant circuit with RTL (on the right), we must remember that the power transferred into the environment is proportional to the flow rate in the circuit Q and the temperature difference between T_{in} e T_{out}, i.e.:
$P \propto Q \times (T_{in} - T_{out})$

Fig. 1

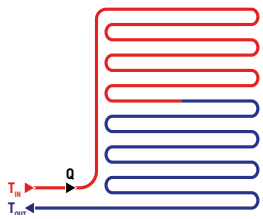
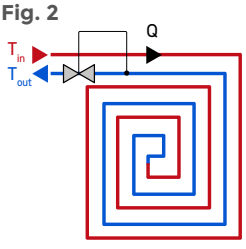


Fig. 2

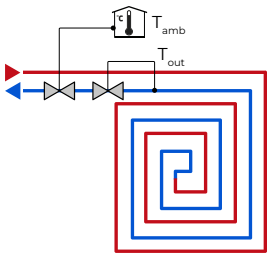


*In a "traditional" radiant heating circuit (**fig. 1**) the T_{in} is low (low-temperature systems) and the temperature difference is also low, generally no more than 10 °C. The key determiner of the power transferred to the environment is the high circulating flow rate.*

*In a radiant circuit with RTL (**fig. 2**), the T_{in} is high (the circuit is indeed fed by a high-temperature system), but the T_{out} is limited by the device, which provides a high temperature difference and a low flow rate. The key determiner of the power transferred to the environment is the high temperature difference.*

In practice, the power transferred to the environment can be the same in the two operating conditions: in the "traditional" case typically with a high flow rate and low ΔT, and with the RTL system at low flow rate and high ΔT. Given that a high temperature difference is achieved with an RTL device, the radiant circuits on which it is installed must be in a spiral layout in order to guarantee an even temperature across the floor.

Now the operation of the RTL device has been clarified, the temperature regulation portion remains: when the desired ambient temperature T_{amb} has been achieved in the room, how can the supply of heat be interrupted? A device such as a thermostatic head or a thermoelectric head controlled by a thermostat can be used, to be installed in series with the RTL circuit:



The flow is intercepted when T_{out} or T_{amb} are satisfied

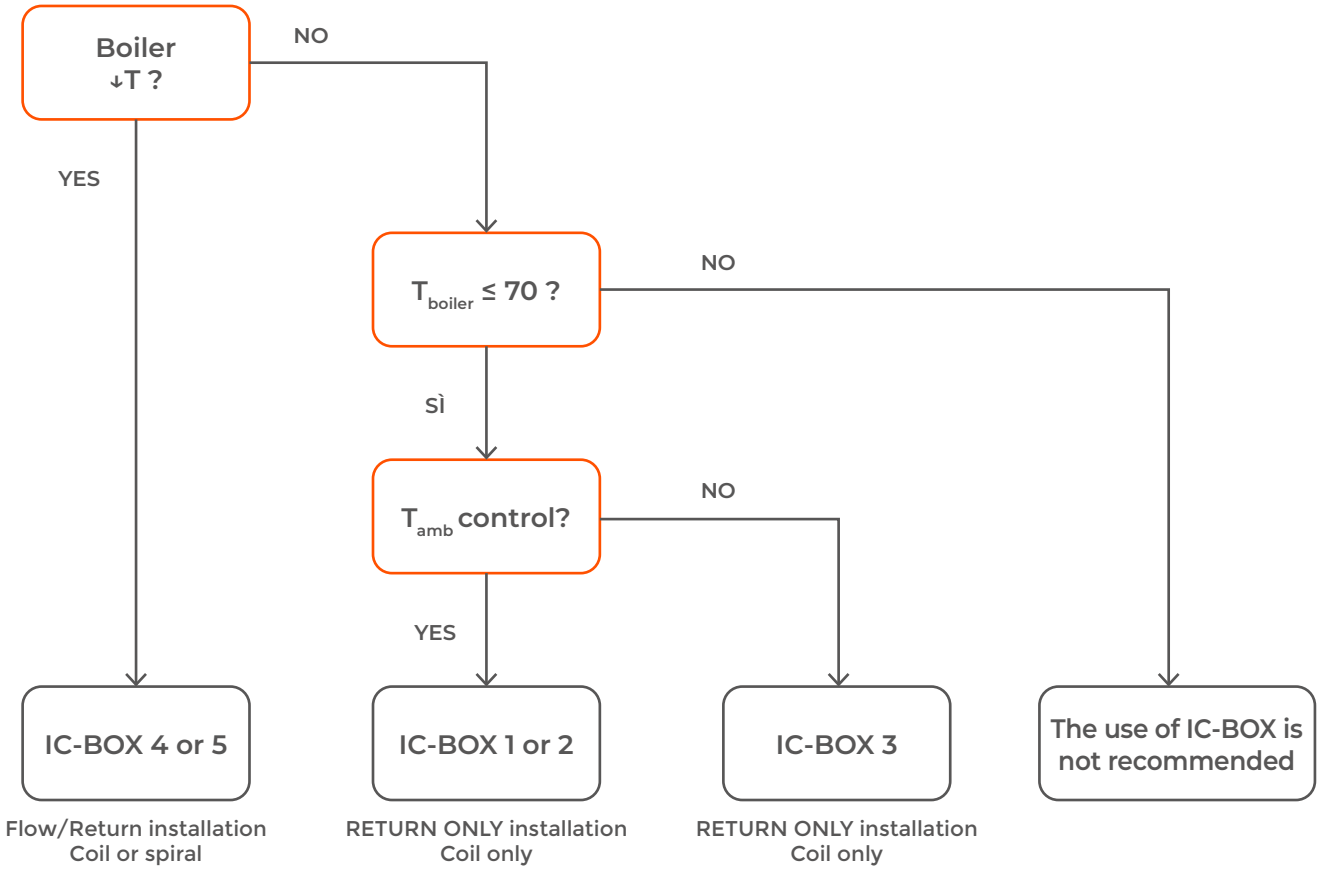
In general, IC-BOX can also be used for wall or ceiling radiant systems: the operating principle remains the same. In order to offer maximum installation flexibility, IC-BOX is offered in five different configurations, depending on whether or not the RTL and ambient temperature control (TA) devices is required. Clearly, the versions without RTL are to be used only in systems where the boiler supply temperature has already been adapted to the radiant circuit.

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. All IC-BOX versions incorporate a manual air vent valve.

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IC-BOX VERSION	WITH RTL	WITH TA
1	YES	YES (thermostatic valve for head with remote sensor or electrothermic head connected to ambient thermostat)
2	YES	YES (thermostatic valve for head with incorporated sensor and control)
3	YES	NO
4	NO (dual micro-adjustable lockshield only)	YES (thermostatic valve for head with incorporated sensor and control)
5	NO (dual micro-adjustable lockshield only)	YES (thermostatic valve for head with remote sensor or electrothermic head connected to ambient thermostat)

IC•BOX MODEL CHOICE



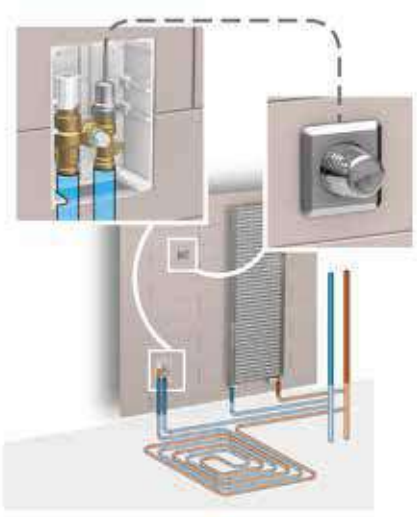
Key

↓T = Low temperature
T_{boiler} = Boiler flow temperature
T_{amb} = Ambient temperature

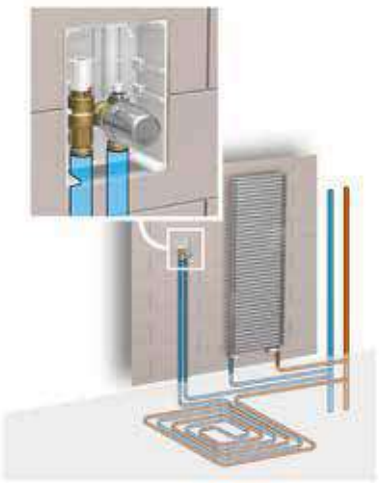
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Installation layouts

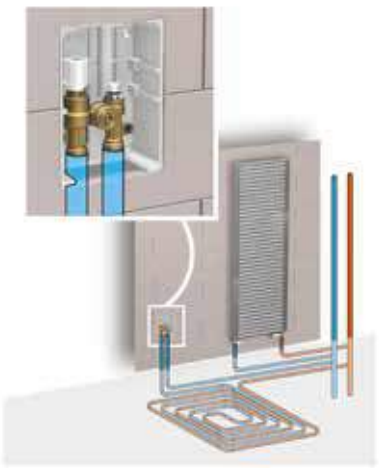
IC•BOX 1



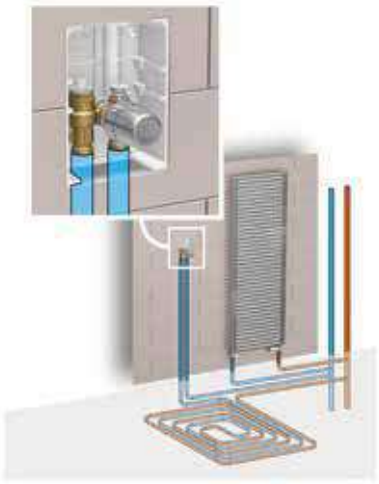
IC•BOX 2



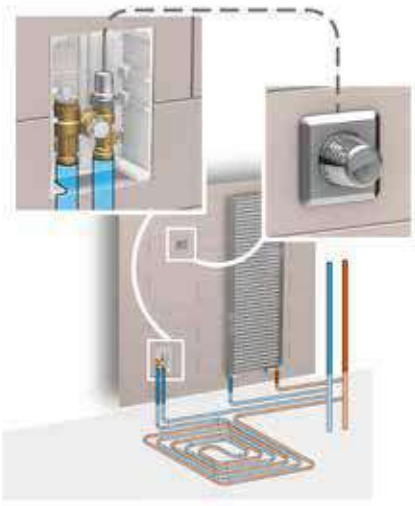
IC•BOX 3



IC•BOX 4



IC•BOX 5



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IC-BOX 1



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.

Code	Version	Range	Color	Class	Packaging
506602	RTL - TA	15-45 °C	☐	BH	1 / 16
506602CR	RTL - TA	15-45 °C	■	BH	1 / 16

IC-BOX 2



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.

Code	Version	Range	Color	Class	Packaging
506603	RTL - TA	15-45 °C	☐	BH	1 / 16
506603CR	RTL - TA	15-45 °C	■	BH	1 / 16

IC-BOX 3



Adjustable return temperature controller 15-45 °C. Complete with:
- manual air vent valve;
- recessed cabinet.

Code	Version	Range	Color	Class	Packaging
506604	RTL	15-45 °C	☐	BH	1 / 16
506604CR	RTL	15-45 °C	■	BH	1 / 16

IC-BOX 4



Room temperature adjustment device. Complete with:
- double micrometric adjustment lockshield
- manual air vent valve
- recessed cabinet.

Code	Version	Color	Class	Packaging
506606	TA	☐	BH	1 / 16
506606CR	TA	■	BH	1 / 16

IC-BOX 5



Room temperature adjustment device. Complete with:
- double micrometric adjustment lockshield;
- manual air vent valve;
- recessed cabinet.

Code	Version	Color	Class	Packaging
506607	TA	☐	BH	1 / 16
506607CR	TA	■	BH	1 / 16



T 5000 >> p. 22



T 5000 CHROME >> p. 22



T 5030 >>p. 23

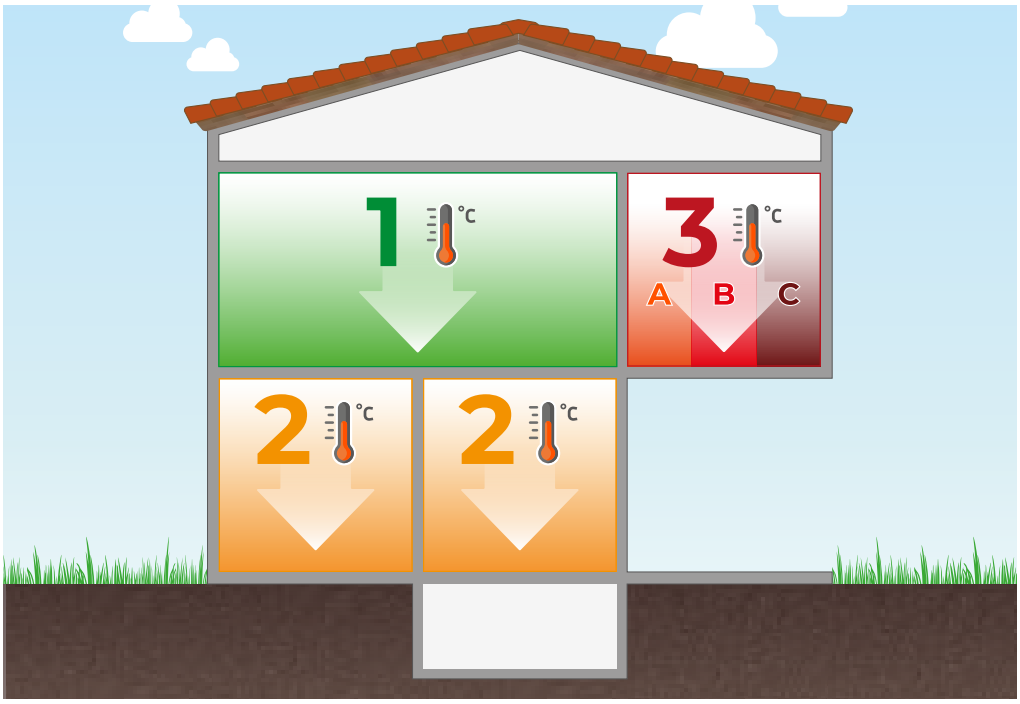
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FLOOR SYSTEMS

Minimum thermal resistance of the insulation layer
In order to limit the dispersion of heat to the environment below through the floor, the standard EN 1264-4:2021 requires a minimum thermal resistance value Rd for the insulation layers (panel) on the basis of the thermal conditions below the heated environment.

New construction
These requirements are mandatory and must always be complied with for new construction.

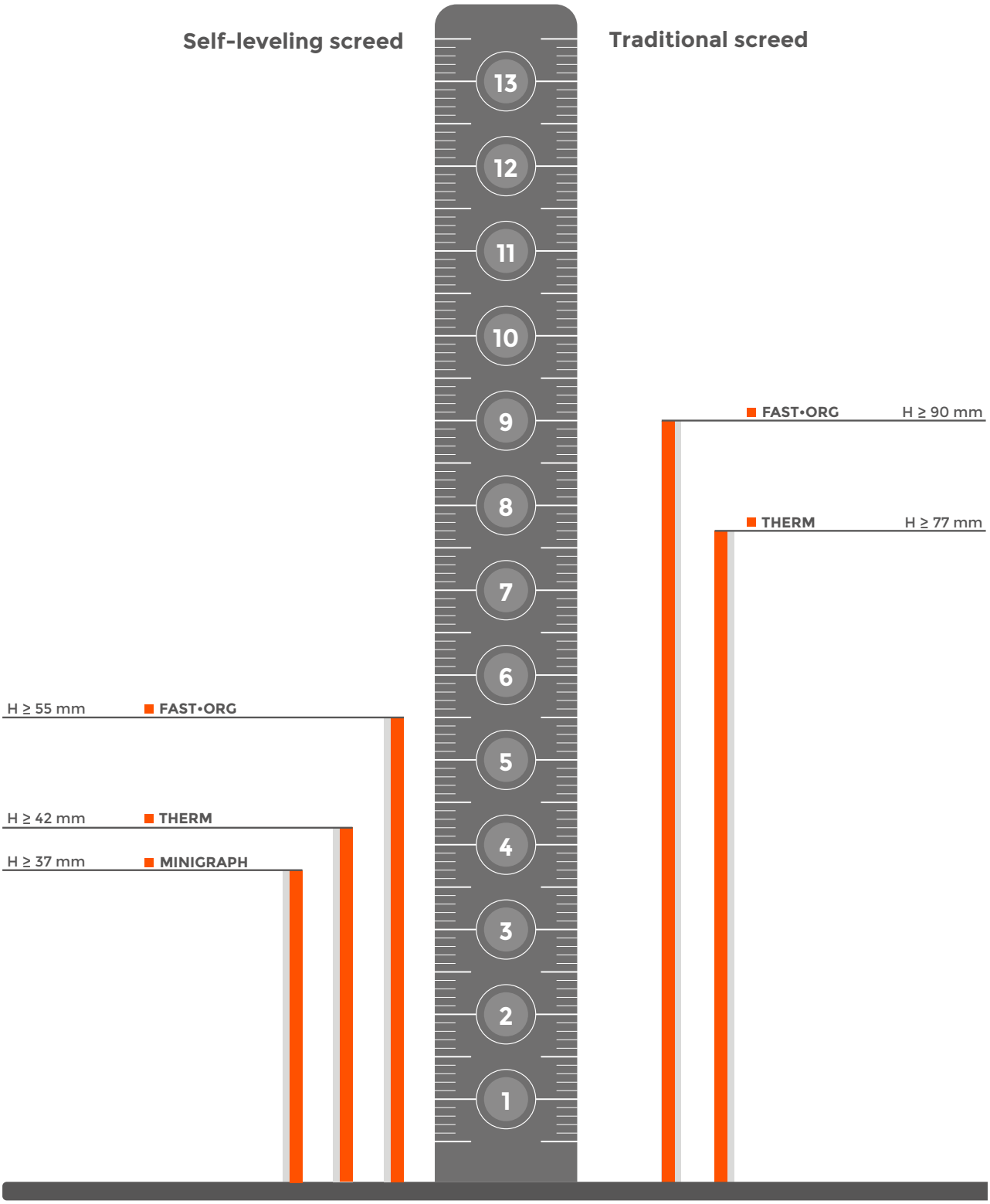
Renovation
In the event of renovation/refurbishment, these should be considered indicative: in order to achieve the specified minimum thermal resistance values through the floor, the designer may consider the thermal resistance of the entire slab/subfloor (not just the panel). Where applicable, it is possible to add further insulation on top in order to come as close as possible to the code requirements.



	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. Td ≥ 0 °C	Design outdoor T. 0 °C > Td ≥ -5 °C	Design outdoor T. -5 °C > Td ≥ -15 °C
Min. thermal resistance of the insulation layer Rd (m² k/W)	0,75	1,25	1,25	1,50	2,00

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Minimum height of floor systems



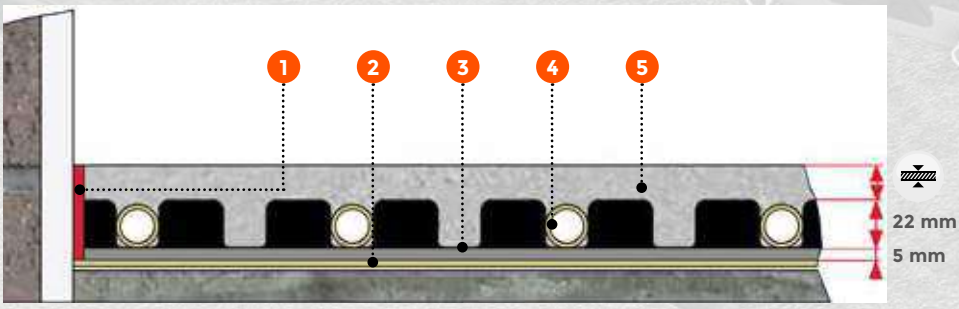
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Typical application	Residential (renovation)
Pipes that can be installed	Ø16/2 - Ø17/2 mm

UNI EN 1264:2021 certified system



1. Perimeter edging
2. Humidity barrier
3. Insulation panel
4. Piping
5. Self-leveling screed



FOCUS: Minimum installation space >> See the introduction to this chapter.

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MINIGRAPH



On request the material can be supplied in compliance with CAM requirements

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): λd 0,030 W/m K
- Compressive strength at 10% deformation (UNI EN 826): 400 kPa

Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Class	Packaging
MINIGRAPH5	5 mm	27 mm	0,17 m² K/W	14 pcs	HU	15,68 m²


Pipes >> p. 127


Holding bend >> p. 258


Insulating sheath >> p. 258


Perimeter edging >> p. 258


Humidity barrier >> p. 258


Clips >>p. 259

SUGGESTED SCREED

Self-leveling

KNAUF

NE 499 Advanced
h ≥ 10 mm

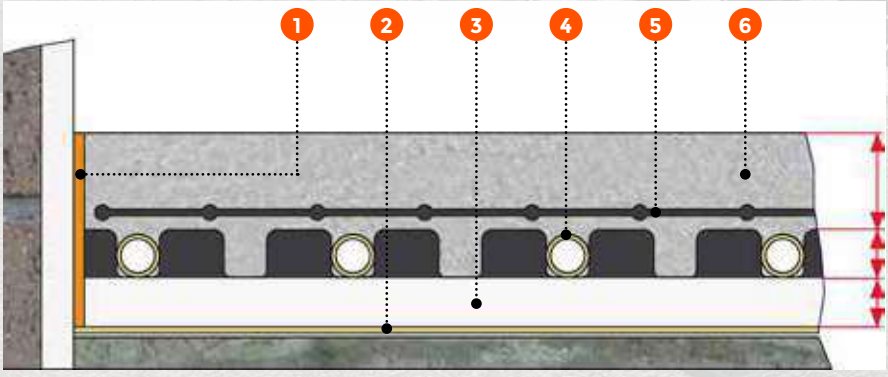
NE 425 Advanced
h ≥ 15 mm

Self-leveling screed height to be considered above the ashlar

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Typical application	Residential (new build)
Pipes that can be installed	Ø16/2 - Ø17/2 mm

1. Perimeter edging
2. Humidity barrier
3. Insulation panel
4. Piping
5. Electro-welded mesh
6. Radiant screed



FOCUS: Minimum installation space >> See the introduction to this chapter.

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THERM



On request the material can be supplied in compliance with CAM requirements

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 (20-30 mm)
- Thermal conductivity (EN 12667): λd 0,033 W/m K (10 mm); λd 0,034 W/m K (20-30 mm)
- Compressive strength at 10% deformation (UNI EN 826): 200 kPa (10 mm); 150 kPa (20-30 mm)

Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Class	Packaging
THERM10	10 mm	32 mm	0,30 m² K/W	22 pcs	HU	24,64 m²
THERM20	20 mm	42 mm	0,59 m² K/W	16 pcs	HU	17,92 m²
THERM30	30 mm	52 mm	0,88 m² K/W	12 pcs	HU	13,44 m²


Pipes >> p. 127


Holding bend >> p. 258


Insulating sheath >> p. 258


Perimeter edging >> p. 258


Humidity barrier >> p. 258


Clips >>p. 259

SUGGESTED SCREED

Self-leveling

KNAUF

NE 499 Advanced
h ≥ 10 mm

NE 425 Advanced
h ≥ 15 mm

Self-leveling screed height to be considered above the ashlar

Traditional


Expansion joint >> p. 258


Electro welded flat net >> p. 259


Reinforcement fibres for concrete screeds >> p. 259


Additive for concrete screeds >>p. 259

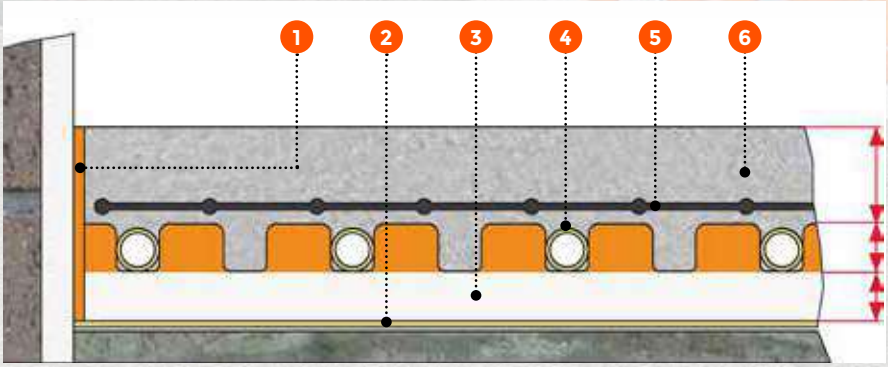
Suggested height ≥ 45 mm over ashlar

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Typical application	Residential (new build)
Pipes that can be installed	Ø16/2 - Ø17/2 mm



1. Perimeter edging
2. Humidity barrier
3. Insulation panel
4. Piping
5. Electro-welded mesh
6. Radiant screed



FOCUS: Minimum installation space >> See the introduction to this chapter.

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FAST-ORG



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): λd 0,033 W/m K
- Compressive strength at 10% deformation (UNI EN 826): 200 kPa

Code	Insulation thickness	Total thickness	Thermal resistance	Pcs per package	Class	Packaging
FAST20-ORG	20 mm	45 mm	0,61 m² K/W	16 pcs	HU	17,92 m²
FAST30-ORG	30 mm	55 mm	0,91 m² K/W	12 pcs	HU	13,44 m²
FAST40-ORG	40 mm	65 mm	1,21 m² K/W	10 pcs	HU	11,20 m²


Pipes >> p. 127


Holding bend >> p. 258


Insulating sheath >> p. 258


Perimeter edging >> p. 258


Humidity barrier >> p. 258


Clips >>p. 259

SUGGESTED SCREED

Self-leveling

KNAUF

NE 499 Advanced
h ≥ 10 mm

NE 425 Advanced
h ≥ 15 mm

Self-leveling screed height to be considered above the ashlar

Traditional


Expansion joint >> p. 258


Electro welded flat net >> p. 259


Reinforcement fibres for concrete screeds >> p. 259


Additive for concrete screeds >>p. 259

Suggested height ≥ 45 mm over ashlar

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ACCESSORIES FOR FLOOR SYSTEMS

FAS-SLIM



Perimeter edging with partial adhesive and adhesive strip.

Code	Size	Color	Class	Packaging
FAS-080L	80 x 6 mm		HP	25 m

FAS



Perimeter edging with partial adhesive and strip.

Code	Size	Color	Class	Packaging
FAS-150	150 x 8 mm		HP	50 m

GIU



Expansion joint.

Code	Size	Class	Packaging
GIU-90	90 x 2000 mm	HP	2 / 100 m

BU



Humidity barrier, thickness 200 µm.

Code	Size	Class	Packaging
BU-100	2 x 50 m	HP	100 m²

SOUND



Sound absorbing panel for floor systems with traditional screed, ΔLw = 30.3 dB (UNI EN ISO 10140-3: 2021).

Code	Size	Insulation thickness	Class	Packaging
SOUND-09	1,3 x 50 m	9 mm	HP	65 m²

ISOL-SOUND



Thermo-acoustic adhesive tape for SOUND panel.

Code	Insulation thickness	Width	Class	Packaging
ISOL-SOUND	3 mm	100 mm	HP	25 m

REGCU



Holding bend for pipe protection.

Code	Pipe	Class	Packaging
REGCU-17	Ø16 - Ø17 mm	HP	50
REGCU-20	Ø20 mm	HP	50
REGCU-25	Ø25 mm	HP	50

ISOL



Insulating sheath for pipes.

Code	Insulation thickness	Pipe	Class	Packaging
ISOL-17	6 mm	Ø16 - Ø17 mm	HP	2 m
ISOL-20	6 mm	Ø20 mm	HP	2 m
ISOL-25	6 mm	Ø25 mm	HP	2 m

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CLIP03

Stand for net.



Code	OC distance	Class	Packaging
CLIP03	75 mm	HP	100

CLIP-MAN

Clip for manual pipe fixing.



Code	Pipe	Class	Packaging
CLIP20	≤ Ø20 mm	HP	100

CLIP-AUT

Clip for automatic pipe fixing.



Code	Pipe	Class	Packaging
CLIP20AUT	≤ Ø20 mm	HP	100

HD09

Clip gun for CLIP20AUT automatic fixing.



Code	Class	Packaging
HD09	HP	1

NET-FLAT

Electro welded flat net.



Code	Size	Class	Packaging
RE-50F2	50 x 50 mm - Ø2 mm	HP	40 m²

FIB

Reinforcement fibres for concrete screeds.



Code	Dosage	Class	Packaging
FIB-12	0,6 - 1,8 kg/m³	HP	1

ADD-M

Additive for concrete screeds.



Code	Dosage	Class	Packaging
ADD-10M	1 l / 100 kg concrete	HP	10 l

RP 5700

Straight fitting for polyethylene pipe for circuit repair, suitable for TH jaw.



Code	Size	Class	Packaging
510201	17/2 x 17/2	IA	40 / 320



IV 400 >> p. 325

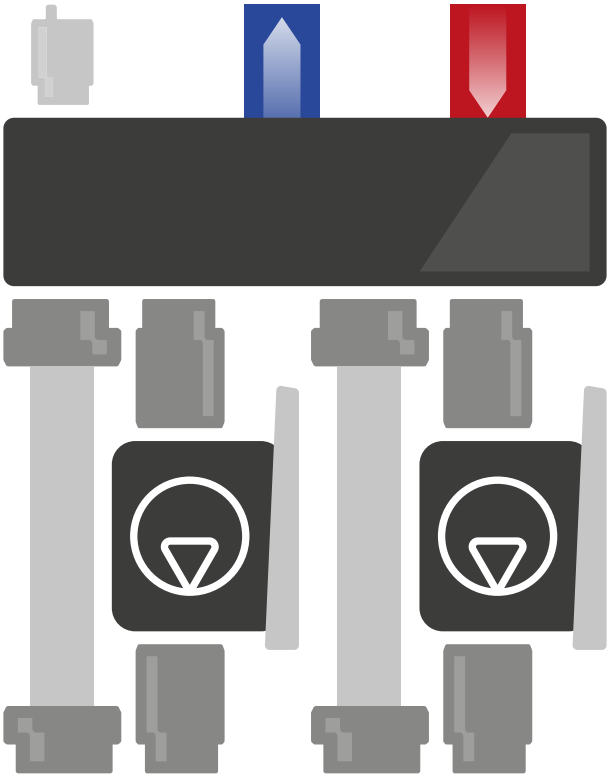


IV 100 LT >>p. 325

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THERMAL POWER STATION





MULTIMIX - Compact boiler distribution system 264



MULTIMIX•C - Compact boiler distribution system 272



Accessories for compact boiler distribution systems MULTIMIX - MULTIMIX•C 277



VARIMIX EVO - High flow rate modular system for thermal power stations 278



VARIMIX PRO - High flow rate modular system for thermal power stations, stainless steel version 284



Accessories for high flow rate modular distribution systems VARIMIX EVO - VARIMIX PRO 287



Rotor mixing valves 292



Thermostatic axial mixing valves 297



Thermostatic axial mixing valves for high flow capacity 298



NEOVENT air vent valves 300



Safety valves for heating applications 304



Wall mounting manifolds 305



Automatic filling groups 306



Bypass differential valves 307



ICESTOP - Antifreeze valve 308

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.

The system 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 (metal recessed cabinet is supplied separately).

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.

Technical specifications
Max. primary flow rate: 3000 l/h
Max. suggested flow rate per kit: 1700 l/h

+ PLUS

- **100% brass**
- Ideal for heat pumps
- Compact, modular and expandable
- Possibility of supply from top to bottom, right/left
- Pre-assembled configurations available
- Suitable for heating and cooling



MANIFOLD/SEPARATOR

- 3 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

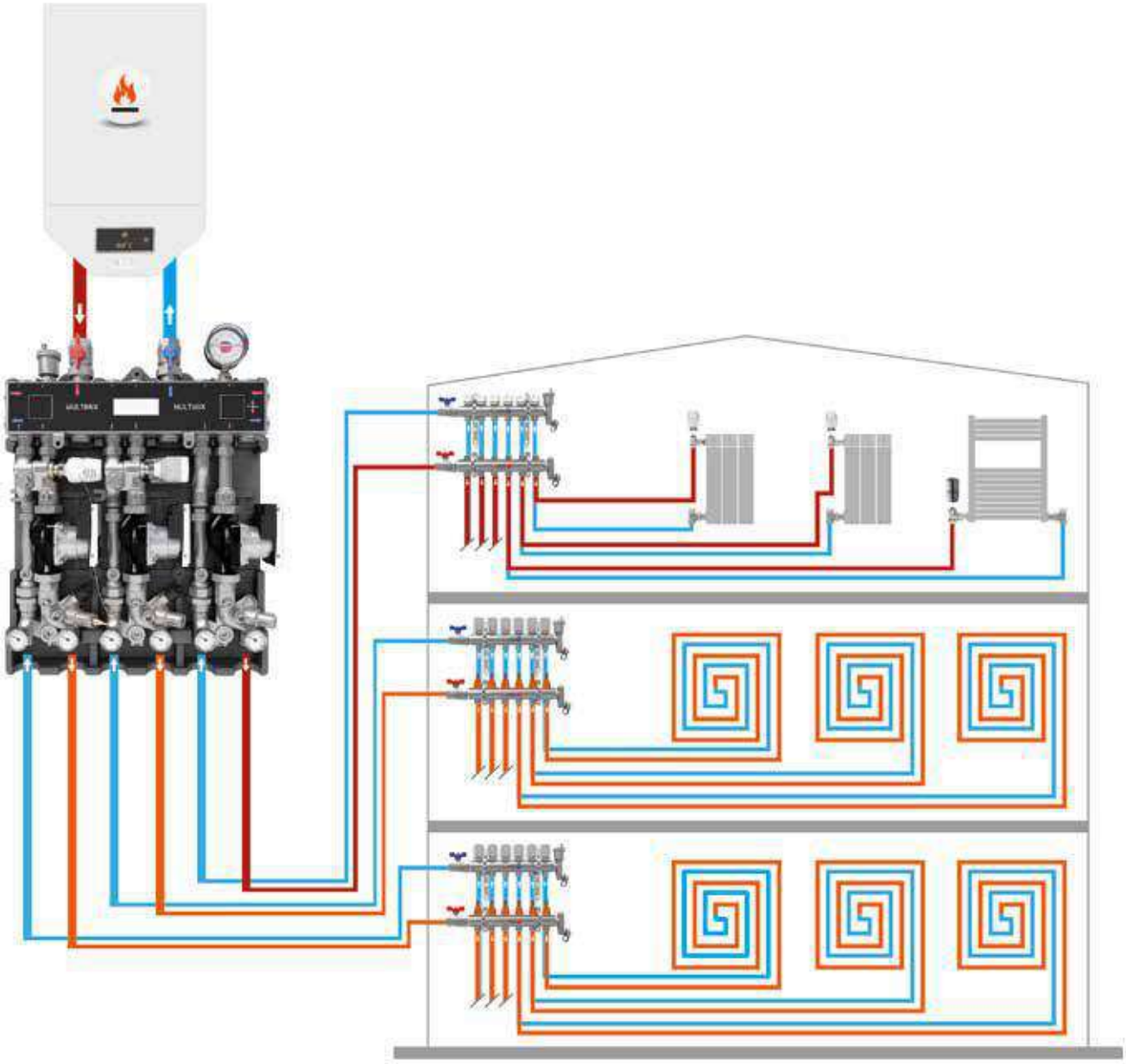


DIRECT DISTRIBUTION KIT

- Pump with shutoff provision and simplified installation thanks to telescopic connection
- Thermometers, non-return valve

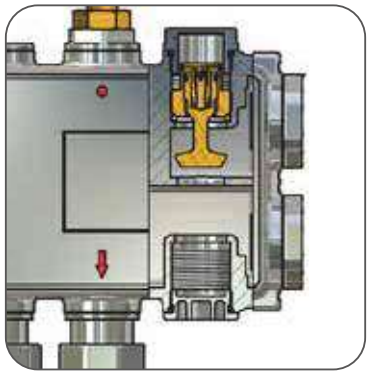
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INSTALLATION LAYOUT OF MULTIMIX SYSTEM



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.



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MULTIMIX - COMPACT BOILER DISTRIBUTION SYSTEM

MUL 3HE



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.

Code	Insulation	Pump	Size	Class	Packaging
506291PEI	✓	WILO4F	3 High T. modules	NI	1

MUL 2HE/1LE



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.

Code	Insulation	Pump	Size	Class	Packaging
506287PEI	✓	WILO4F	2 High T. modules + 1 Low T. module	NI	1

MUL 1HE/2LE



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.

Code	Insulation	Pump	Size	Class	Packaging
506286PEI	✓	WILO4F	1 High T. module + 2 Low T. modules	NI	1

MUL 3LE



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.

Code	Insulation	Pump	Size	Class	Packaging
506289PEI	✓	WILO4F	3 Low T. modules	NI	1



200090 >> p. 203



RA 761 / RP 731 (3/4" M) >> p. 110



T 5011 U >> p. 241,277



CLIMA-HUB >> p. 433



RV 01 >>p. 233,241,277,287,442

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MUL 2HE



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.

Code	Insulation	Pump	Size	Class	Packaging
506290PEI	✓	WILO4F	2 High T. modules	NI	1

MUL 1HE/1LE



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.

Code	Insulation	Pump	Size	Class	Packaging
506285PEI	✓	WILO4F	1 High T. module + 1 Low T. module	NI	1

MUL 2LE



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.

Code	Insulation	Pump	Size	Class	Packaging
506288PEI	✓	WILO4F	2 Low T. modules	NI	1



200089 >> p. 203



RA 761 / RP 731 (3/4" M) >> p. 110



T 5011 U >> p. 241,277

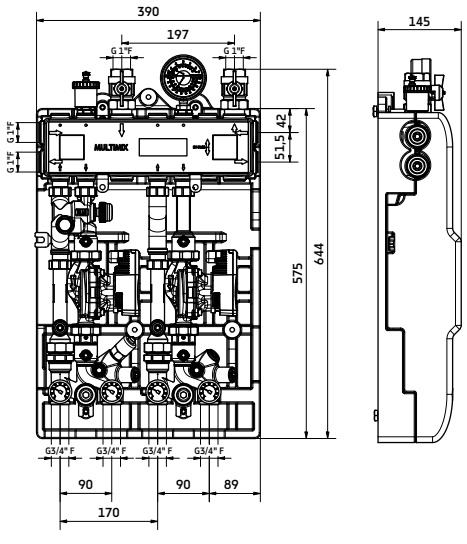


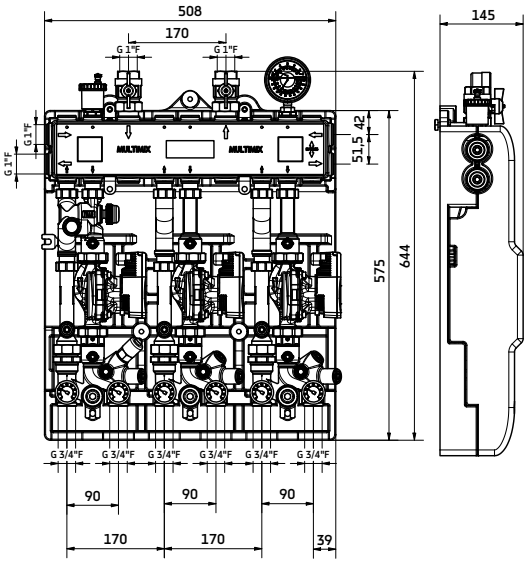
CLIMA-HUB >> p. 433



RV 01 >>p. 233,241,277,287,442

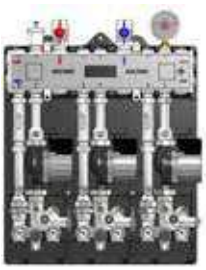
Dimensions of 2- and 3-way MULTIMIX modules with insulation





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MUL 3H



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.

Code	Insulation	Pump	Size	Class	Packaging
506291PI	✓	WILO3F	3 High T. modules	NI	1

MUL 2H/1L



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.

Code	Insulation	Pump	Size	Class	Packaging
506287PI	✓	WILO3F	2 High T. modules + 1 Low T. module	NI	1

MUL 1H/2L



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.

Code	Insulation	Pump	Size	Class	Packaging
506286PI	✓	WILO3F	1 High T. module + 2 Low T. modules	NI	1

MUL 3L



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.

Code	Insulation	Pump	Size	Class	Packaging
506289PI	✓	WILO3F	3 Low T. modules	NI	1



200090 >> p. 203



RA 761 / RP 731 (3/4" M) >> p. 110



CBL 01 >> p. 446



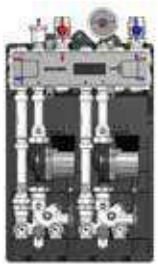
T 5011 U >> p. 241,277



RV 01 >>p. 233,241,277,287,442

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MUL 2H



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.

Code	Insulation	Pump	Size	Class	Packaging
506290PI	✓	WILO3F	2 High T. modules	NI	1

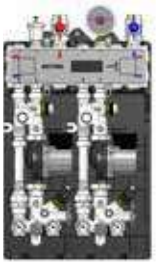
MUL 1H/1L



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.

Code	Insulation	Pump	Size	Class	Packaging
506285PI	✓	WILO3F	1 High T. module + 1 Low T. module	NI	1

MUL 2L



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.

Code	Insulation	Pump	Size	Class	Packaging
506288PI	✓	WILO3F	2 Low T. modules	NI	1



200089 >> p. 203



RA 761 / RP 731 (3/4" M) >> p. 110



CBL 01 >> p. 446

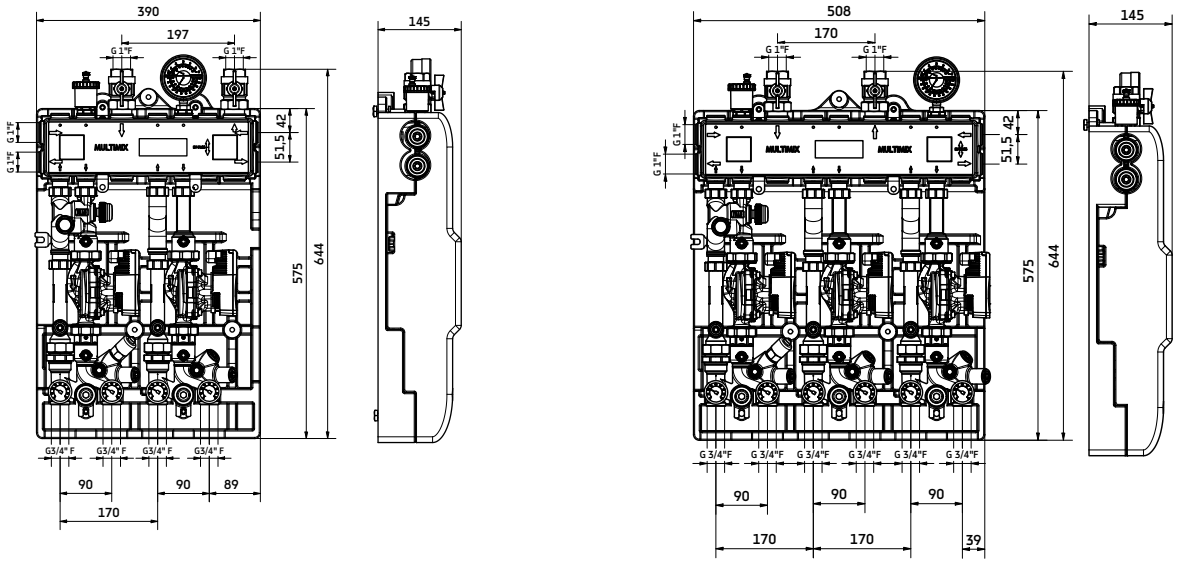


T 5011 U >> p. 241,277



RV 01 >>p. 233,241,277,287,442

Dimensions of 2- and 3-way MULTIMIX modules with insulation



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MUL 10 E



High temperature direct flow kit with/without variable speed electronic pump for MULTIMIX system.

Code	Bypass	Pump	Size	Insulation	Class	Packaging
506280NB	-		G 3/4" M	-	NI	1
506280PE	-	WILO4F	G 3/4" M	-	NI	1
506280PEI	-	WILO4F	G 3/4" M	✓	NI	1

MUL 11



High temperature direct flow kit with/without standard 3-speed pump complete with bypass for MULTIMIX system.

Code	Bypass	Pump	Size	Insulation	Class	Packaging
506280	✓		G 3/4" M	-	NI	1
506280P	✓	WILO3F	G 3/4" M	-	NI	1

MUL 20 E



Low temperature mixing kit with/without variable speed electronic pump for MULTIMIX system.

Code	Bypass	Pump	Size	Insulation	Class	Packaging
506281NB	-		G 3/4" M	-	NI	1
506281PE	-	WILO4F	G 3/4" M	-	NI	1
506281PEI	-	WILO4F	G 3/4" M	✓	NI	1



T 5011 U >> p. 241,277



CLIMA-HUB >> p. 433



RV 01 >>p. 233,241,277,287,442

MUL 20



Low temperature mixing kit with/without standard 3-speed pump complete with bypass for MULTIMIX system.

Code	Bypass	Pump	Size	Insulation	Class	Packaging
506281	✓		G 3/4" M	-	NI	1
506281P	✓	WILO3F	G 3/4" M	-	NI	1
506281PI	✓	WILO3F	G 3/4" M	✓	NI	1



T 5011 U >> p. 241,277



CBL 01 >> p. 446



RV 01 >>p. 233,241,277,287,442

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MUL 0033 AC



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.

Code	Included Accessories	Ways	Size	Class	Packaging
506283	AC 655 NST + MA 20 + AC 620	3	G 1" F x G 3/4" F	NI	1

MUL 0033

3-way main distribution manifold with interceptable hydraulic separator for MULTIMIX system, 1" M nipples included.



Code	Included Accessories	Ways	Size	Class	Packaging
506285	AC 606 N	3	G 1" F x G 3/4" F	NI	1

MUL 0032 AC



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.

Code	Included Accessories	Ways	Size	Class	Packaging
506282	AC 655 NST + MA 20 + AC 620	2	G 1" F x G 3/4" F	NI	1

MUL 0032

2-way main distribution manifold with interceptable hydraulic separator for MULTIMIX system, 1" M nipples included.



Code	Included Accessories	Ways	Size	Class	Packaging
506284	AC 606 N	2	G 1" F x G 3/4" F	NI	1

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MULTIMIX•C

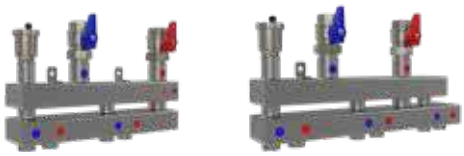
The **MULTIMIX·C** system enables the transfer of fluids at different temperatures to each thermal zone via a distribution and boosting kit, made independent by the pressure equaliser incorporated in the main manifold. The extraordinary compact size facilitates installation below the boiler and in confined 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 (metal recessed cabinet is supplied separately).

Technical specifications
Max. primary flow rate: 3000 l/h
Max. suggested 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

- Three-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

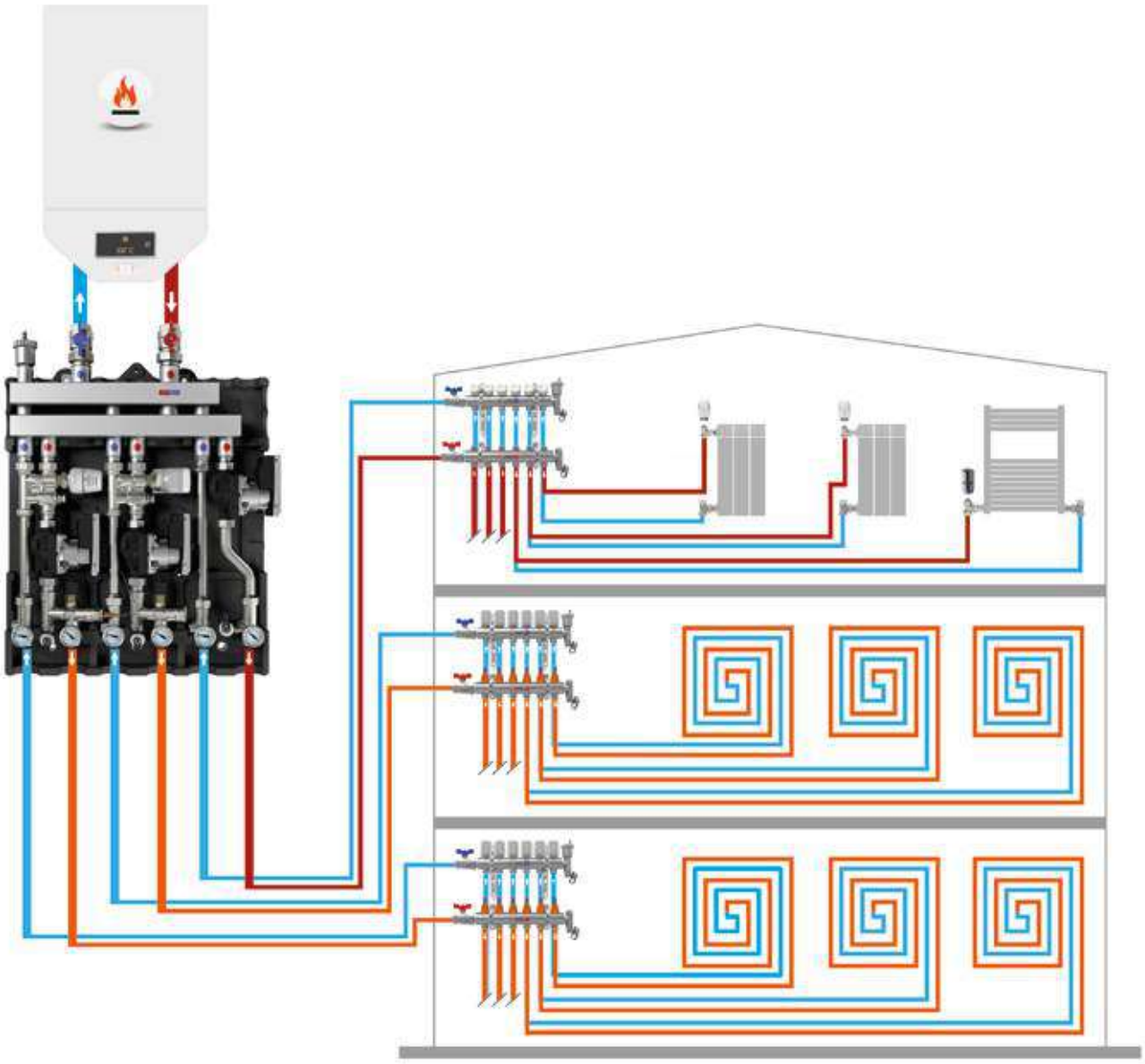


DIRECT DISTRIBUTION KIT

- Thermometers, non-return valve
- Pump with shutoff provision and simplified installation thanks to telescopic connection

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INSTALLATION LAYOUT OF MULTIMIX•C SYSTEM



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MUL-C 3HE



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.

Code	Insulation	Pump	Size	Class	Packaging
508140PEI	✓	WILO4F-G1	3 High T. modules	NI	1

MUL-C 2HE/1LE



MULTIMIX-C distribution module for zone thermal plants.Version with 3 zones distribution manifold/separator, two of direct distributionin high temperature, one of low temperature with mixing unit. Distribution units complete of variable speed electronic pump.

Code	Insulation	Pump	Size	Class	Packaging
508136PEI	✓	WILO4F-G1	2 High T. modules + 1 Low T. module	NI	1

MUL-C 1HE/2LE



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.

Code	Insulation	Pump	Size	Class	Packaging
508135PEI	✓	WILO4F-G1	1 High T. module + 2 Low T. modules	NI	1

MUL-C 3LE



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.

Code	Insulation	Pump	Size	Class	Packaging
508138PEI	✓	WILO4F-G1	3 Low T. modules	NI	1



200090 >> p. 203



RA 761 / RP 731 (3/4" M) >> p. 110



T 5011 U >> p. 241,277



CLIMA-HUB >> p. 433



RV 01 >>p. 233,241,277,287,442

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MUL-C 2HE



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.

Code	Insulation	Pump	Size	Class	Packaging
508139PEI	✓	WILO4F-G1	2 High T. modules	NI	1

MUL-C 1HE/1LE



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.

Code	Insulation	Pump	Size	Class	Packaging
508134PEI	✓	WILO4F-G1	1 High T. module + 1 Low T. module	NI	1

MUL-C 2LE



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.

Code	Insulation	Pump	Size	Class	Packaging
508137PEI	✓	WILO4F-G1	2 Low T. modules	NI	1



200089 >> p. 203



RA 761 / RP 731 (3/4" M) >> p. 110



T 5011 U >> p. 241,277

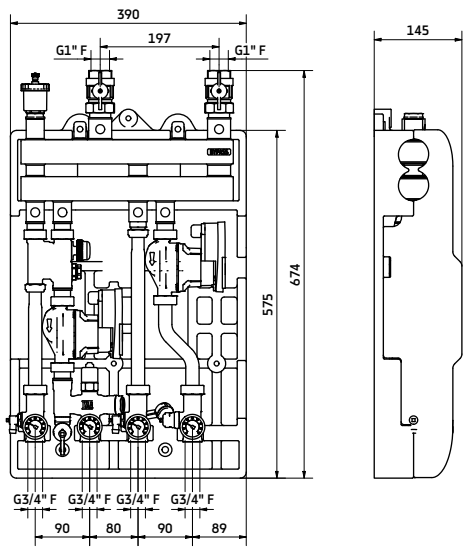


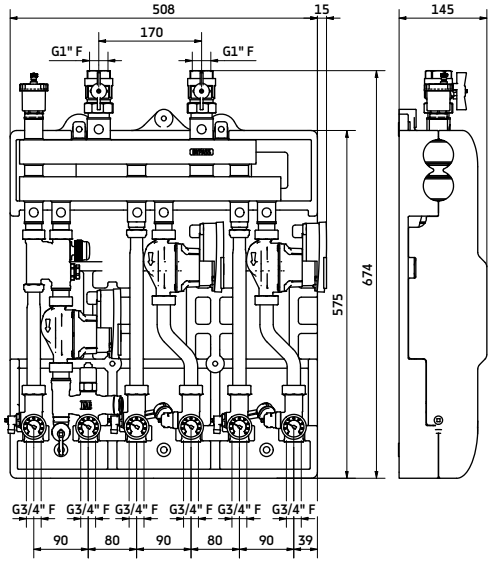
CLIMA-HUB >> p. 433



RV 01 >>p. 233,241,277,287,442

Dimensions of 2- and 3-way MULTIMIX-C modules with insulation





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MUL-C 10 E



High temperature direct flow kit with/without variable speed electronic pump for MULTIMIX-C system.

Code	Pump	Size	Insulation	Class	Packaging
508155		G 3/4" M	-	NI	1
508155I		G 3/4" M	✓	NI	1
508155PE	WILO4F-G1	G 3/4" M	-	NI	1
508155PEI	WILO4F-G1	G 3/4" M	✓	NI	1

MUL-C 20 E



Low temperature mixing kit with/without variable speed electronic pump for MULTIMIX-C system.

Code	Pump	Size	Insulation	Class	Packaging
508156		G 3/4" M	-	NI	1
508156I		G 3/4" M	✓	NI	1
508156PE	WILO4F-G1	G 3/4" M	-	NI	1
508156PEI	WILO4F-G1	G 3/4" M	✓	NI	1



T 5011 U >> p. 241,277



CLIMA-HUB >> p. 433



RV 01 >>p. 233,241,277,287,442

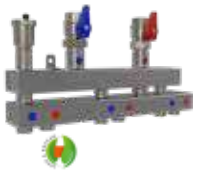
ACM 667



Bypass valve for MULTIMIX-C.

Code	Size	Range	Class	Packaging
508141	3/4"	0,2-0,6 bar	NI	1

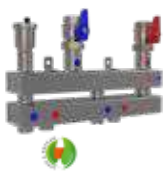
MUL-C 0033 AC



3-way main distribution manifold with interceptable hydraulic separator for MULTIMIX-C system, complete with ball valves and automatic air vent.

Code	Included Accessories	Ways	Size	Class	Packaging
508154	AC 655 NST + AC 620	3	G 1" F x G 3/4" F	NI	1

MUL-C 0032 AC



2-way main distribution manifold with interceptable hydraulic separator for MULTIMIX-C system, complete with ball valves and automatic air vent.

Code	Included Accessories	Ways	Size	Class	Packaging
508153	AC 655 NST + AC 620	2	G 1" F x G 3/4" F	NI	1

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ACCESSORIES FOR MULTIMIX - MULTIMIX•C

AMUL 01



Insulation for MULTIMIX / MULTIMIX-C system.

Code	Size	Height	Width	Depth	Class	Packaging
506360	1 module	460 mm	280 mm	145 mm	NI	1
506361	2 modules	610 mm	390 mm	145 mm	NI	1
506362	3 modules	575 mm	550 mm	145 mm	NI	1

RV 01



Axial motor. Suitable for all IVAR thermostatic inserts.

Code	Size	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC/DC)	PC	1 / 100



CLIMA•HUB - Electronic controller for heating and cooling systems >>p. 433

T 5011 U



Thermostatic head with incorporated control and immersion remote sensor.

Code	Size	Range	Length	Class	Packaging
501175U	M30 x 1,5 - 1/2"	30-55 °C	1 m	AA	5 / 40

AC 672



Wrench for pump installation/removal (compatible for MULTIMIX only).

Code	Size	Class	Packaging
200147	52 mm	NI	1

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VARIMIX EVO

VARIMIX gets a complete makeover!
Our modular high-flow rate system for thermal power stations is now even more flexible and compact, specifically designed to be combined with heat pumps and for heating and cooling applications.

With the new **VARIMIX**, you can easily realise a distribution station, with boosting and mixing units, optimising space. The system is based on a few components that can be combined according to installation needs.

Each component of the **VARIMIX** system can be combined with contact insulation that prevents condensation in case of cooling systems. For mixing or booster modules, the insulation is available in four different versions, depending on the circulator.

The components of the VARIMIX system are available in two versions depending on the material: **VARIMIX EVO** (carbon steel with black finish) and **VARIMIX PRO** (stainless steel).

Technical specifications
Max. primary flow rate: 6000 l/h
Max. suggested flow rate per kit: 4000 l/h
Centre-to-centre distance: 125 mm

+ PLUS

- Ideal for combination with heat pumps
- Perfect for heating and cooling applications
- Reversibility: the hydraulic separator can be installed with supply from the right or left
- Possibility of distribution downwards and/or upwards

VARIMIX EVO



VARIMIX PRO



Hydraulic separator



- Automatic air vent
- G 1"1/2 soft seal fittings
- Magnets
- Drainage valve

Reversible direct distribution kit



- G 1" soft seal fittings
- Non-return valve
- Shut-off valve
- Pump OC distance 130 mm
- G 1" ball valves with integrated thermometer

Reversible mixing kit with rotor valve



- G 1" soft seal fittings
- Non-return valve
- Secondary by-pass
- Pump OC distance 130 mm
- G 1" ball valves with integrated thermometer

Reversible mixing kit with piston valve

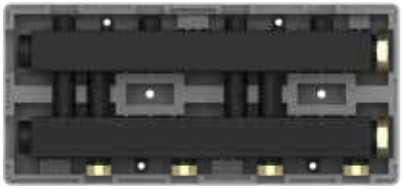


- G 1" soft seal fittings
- Non-return valve
- Secondary by-pass
- Pump OC distance 130 mm
- G 1" ball valves with integrated thermometer

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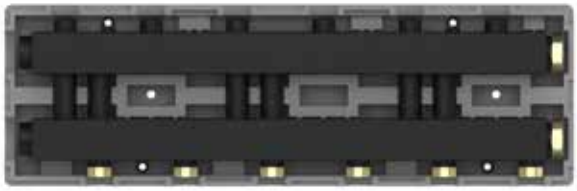
2-way double-sided manifold

- 1 inlet connection – 5 outlet connections
- Threads: side connections G 1"1/2 – others: G 1"
- It is possible to connect two manifolds together



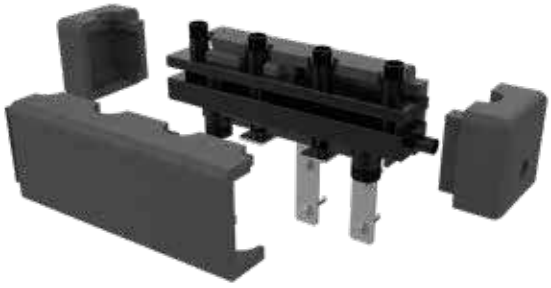
3-way double-sided manifold

- 1 inlet connection – 7 outlet connections
- Threads: side connections G 1"1/2 – others: G 1"
- It is possible to connect two manifolds together



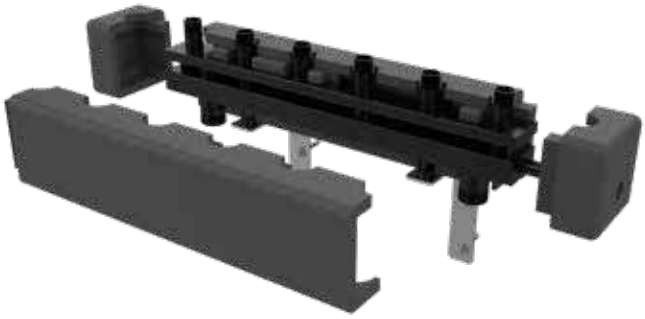
2-way single-sided manifold with separator included

- 1 inlet connection – 2 outlet connections
- Threads: side connections G 1"1/2 – others: G 1"
- Hydraulic separator included



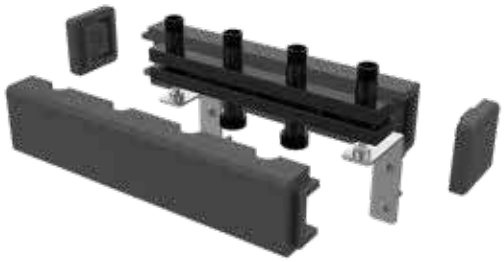
3-way single-sided manifold with separator included

- 1 inlet connection – 3 outlet connections
- Threads: side connections G 1"1/2 – others: G 1"
- Hydraulic separator included



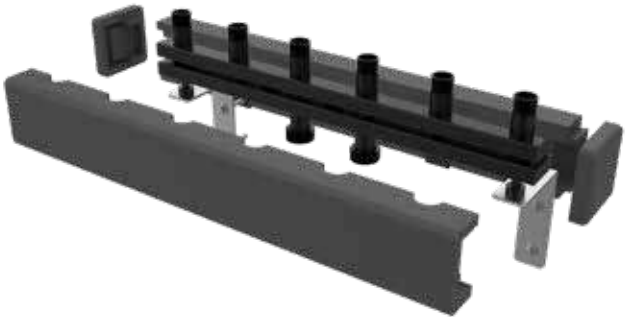
2-way single-sided manifold without separator

- 1 inlet connection – 2 outlet connections
- Threads: main connections G 1"1/2 – others: G 1"
- Can be combined with VARITANK inertial storage tank



3-way single-sided manifold without separator

- 1 inlet connection – 3 outlet connections
- Threads: main connections G 1"1/2 – others: G 1"
- Can be combined with VARITANK inertial storage tank



Kit with secondary circuit overpressure bypass



- Filling/drainage valve
- Manual air vent

Kit with primary circuit overpressure bypass



- Adjustment knob
- G1" soft seal fittings

Kit with differential pressure meter for secondary circuit balancing



- Filling/drainage valve
- Manual air vents

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VARIMIX EVO - HIGH FLOW RATE MODULAR SYSTEM FOR THERMAL POWER STATIONS

VAR 10 SP



High temperature direct flow kit without pump for VARIMIX EVO system.

Code	Pump	Size	OC distance	Insulation type	Class	Packaging
550633	-	1"	125 mm	Generic pump	NI	1
550633D	-	1"	125 mm	DAB pump	NI	1
550633G	-	1"	125 mm	GRUNDFOS pump	NI	1



RA 761 / RP 731 >>p. 110

VAR 10



High temperature direct flow kit with pump for VARIMIX EVO system.

Code	Pump	Size	OC distance	Insulation type	Class	Packaging
550633P	WILO3F	1"	125 mm	Generic pump	NI	1
550633PE	WILO4F	1"	125 mm	WILO4F pump	NI	1



RA 761 / RP 731 >>p. 110

VAR 21 SP



Low temperature mixing kit without pump equipped with piston mixing valve for VARIMIX EVO system.

Code	Pump	Size	OC distance	Insulation type	Class	Packaging
550632	-	1"	125 mm	Generic pump	NI	1
550632D	-	1"	125 mm	DAB pump	NI	1
550632G	-	1"	125 mm	GRUNDFOS pump	NI	1



T 5012 U >> p. 287



RV 01 >> p. 233,241,277,287,442



TE 3061 >> p. 233,287,445



CLIMA-HUB >> p. 433



RA 761 / RP 731 >>p. 110

VAR 21



Low temperature mixing kit equipped with pump and piston mixing valve for VARIMIX EVO system.

Code	Pump	Size	OC distance	Insulation type	Class	Packaging
550632P	WILO3F	1"	125 mm	Generic pump	NI	1
550632PE	WILO4F	1"	125 mm	WILO4F pump	NI	1



T 5012 U >> p. 287



RV 01 >> p. 233,241,277,287,442



TE 3061 >> p. 233,287,445



CLIMA-HUB >> p. 433



RA 761 / RP 731 >>p. 110

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VAR 20 SP



Low temperature mixing kit without pump equipped with rotor mixing valve for VARIMIX EVO system.

Code	Pump	Kv	Size	OC distance	Insulation type	Class	Packaging
5506312	-	2	1"	125 mm	Generic pump	NI	1
5506312D	-	2	1"	125 mm	DAB pump	NI	1
5506312G	-	2	1"	125 mm	GRUNDFOS pump	NI	1
5506314	-	4	1"	125 mm	Generic pump	NI	1
5506314D	-	4	1"	125 mm	DAB pump	NI	1
5506314G	-	4	1"	125 mm	GRUNDFOS pump	NI	1
5506316	-	6	1"	125 mm	Generic pump	NI	1
5506316D	-	6	1"	125 mm	DAB pump	NI	1
5506316G	-	6	1"	125 mm	GRUNDFOS pump	NI	1
5506318	-	8	1"	125 mm	Generic pump	NI	1
5506318D	-	8	1"	125 mm	DAB pump	NI	1
5506318G	-	8	1"	125 mm	GRUNDFOS pump	NI	1



CTC 20 >> p. 287,442



ADH 20 >> p. 287,442



M 106 >> p. 287,442



CLIMA-HUB >> p. 433



RA 761 / RP 731 >>p. 110

VAR 20



Low temperature mixing kit equipped with pump and rotor mixing valve for VARIMIX EVO system.

Code	Pump	Kv	Size	OC distance	Insulation type	Class	Packaging
5506312P	WILO3F	2	1"	125 mm	Generic pump	NI	1
5506312PE	WILO4F	2	1"	125 mm	WILO4F pump	NI	1
5506314P	WILO3F	4	1"	125 mm	Generic pump	NI	1
5506314PE	WILO4F	4	1"	125 mm	WILO4F pump	NI	1
5506316P	WILO3F	6	1"	125 mm	Generic pump	NI	1
5506316PE	WILO4F	6	1"	125 mm	WILO4F pump	NI	1
5506318P	WILO3F	8	1"	125 mm	Generic pump	NI	1
5506318PE	WILO4F	8	1"	125 mm	WILO4F pump	NI	1



CTC 20 >> p. 287,442



ADH 20 >> p. 287,442



M 106 >> p. 287,442



CLIMA-HUB >> p. 433



RA 761 / RP 731 >>p. 110

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VARIMIX EVO - HIGH FLOW RATE MODULAR SYSTEM FOR THERMAL POWER STATIONS

VAR 00



Hydraulic separator/pressure equalizer with automatic air vent valve, drainage valve and magnets (2 x 12000 Gauss) for VARIMIX EVO system.

Code	Size	Class	Packaging
550634	1"1/2 - Q max 6000 l/h	NI	1

VAR 30 2W



2-way modular distribution manifold for VARIMIX EVO system.

Code	Size	OC distance	Class	Packaging
550638	1"1/2 x 1" - Q max 5000 l/h	125 mm	NI	1

VAR 30 3W



3-way modular distribution manifold for VARIMIX EVO system.

Code	Size	OC distance	Class	Packaging
550639	1"1/2 x 1" - Q max 5000 l/h	125 mm	NI	1

VAR 302 2W



2-way compact distribution single-sided manifold for VARIMIX EVO system, version with separator included.

Code	Size	OC distance	Class	Packaging
550645	1"1/2 M x 1" M - Q max 3000 l/h	125 mm	NI	1

VAR 302 3W



3-way compact distribution single-sided manifold for VARIMIX EVO system, version with separator included.

Code	Size	OC distance	Class	Packaging
550646	1"1/2 M x 1" M - Q max 3000 l/h	125 mm	NI	1

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VAR 303 2W

2-way compact distribution single-sided manifold for VARIMIX EVO system, version without separator.



Code	Size	OC distance	Class	Packaging
550648	1"1/2 M x 1" M - Q max 3000 l/h	125 mm	NI	1



VARITANK 50 >> p. 291

VAR 303 3W

3-way compact distribution single-sided manifold for VARIMIX EVO system, version without separator.



Code	Size	OC distance	Class	Packaging
550649	1"1/2 M x 1" M - Q max 3000 l/h	125 mm	NI	1



VARITANK 50 >> p. 291



AC 635 BCM / AC 635 RCM >>p. 219

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VARIMIX PRO

VAR 10 IX SP



High temperature direct flow kit without pump for VARIMIX PRO system, stainless steel version.

Code	Pump	Size	OC distance	Insulation type	Class	Packaging
550633IX	-	1"	125 mm	Generic pump	NI	1
550633DIX	-	1"	125 mm	DAB pump	NI	1
550633GIX	-	1"	125 mm	GRUNDFOS pump	NI	1



RA 761 / RP 731 >>p. 110

VAR 10 IX



High temperature direct flow kit with pump for VARIMIX PRO system, stainless steel version.

Code	Pump	Size	OC distance	Insulation type	Class	Packaging
550633PIX	WILO3F	1"	125 mm	Generic pump	NI	1
550633PEIX	WILO4F	1"	125 mm	WILO4F pump	NI	1



RA 761 / RP 731 >>p. 110

VAR 21 IX SP



Low temperature mixing kit without pump equipped with piston mixing valve for VARIMIX PRO system, stainless steel version.

Code	Pump	Size	OC distance	Insulation type	Class	Packaging
550632IX	-	1"	125 mm	Generic pump	NI	1
550632DIX	-	1"	125 mm	DAB pump	NI	1
550632GIX	-	1"	125 mm	GRUNDFOS pump	NI	1



T 5012 U >> p. 287



RV 01 >> p. 233,241,277,287,442



TE 3061 >> p. 233,287,445



CLIMA-HUB >> p. 433



RA 761 / RP 731 >>p. 110

VAR 21 IX



Low temperature mixing kit equipped with pump and piston mixing valve for VARIMIX PRO system, stainless steel version.

Code	Pump	Size	OC distance	Insulation type	Class	Packaging
550632PIX	WILO3F	1"	125 mm	Generic pump	NI	1
550632PEIX	WILO4F	1"	125 mm	WILO4F pump	NI	1



T 5012 U >> p. 287



RV 01 >> p. 233,241,277,287,442



TE 3061 >> p. 233,287,445



CLIMA-HUB >> p. 433



RA 761 / RP 731 >>p. 110

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VAR 20 IX SP



Low temperature mixing kit without pump equipped with rotor mixing valve for VARIMIX PRO system, stainless steel version.

Code	Pump	Kv	Size	OC distance	Insulation type	Class	Packaging
5506312IX	-	2	1"	125 mm	Generic pump	NI	1
5506312DIX	-	2	1"	125 mm	DAB pump	NI	1
5506312GIX	-	2	1"	125 mm	GRUNDFOS pump	NI	1
5506314IX	-	4	1"	125 mm	Generic pump	NI	1
5506314DIX	-	4	1"	125 mm	DAB pump	NI	1
5506314GIX	-	4	1"	125 mm	GRUNDFOS pump	NI	1
5506316IX	-	6	1"	125 mm	Generic pump	NI	1
5506316DIX	-	6	1"	125 mm	DAB pump	NI	1
5506316GIX	-	6	1"	125 mm	GRUNDFOS pump	NI	1
5506318IX	-	8	1"	125 mm	Generic pump	NI	1
5506318DIX	-	8	1"	125 mm	DAB pump	NI	1
5506318GIX	-	8	1"	125 mm	GRUNDFOS pump	NI	1



CTC 20 >> p. 287,442



ADH 20 >> p. 287,442



M 106 >> p. 287,442



CLIMA-HUB >> p. 433



RA 761 / RP 731 >>p. 110

VAR 20 IX



Low temperature mixing kit equipped with pump and rotor mixing valve for VARIMIX PRO system, stainless steel version.

Code	Pump	Kv	Size	OC distance	Insulation type	Class	Packaging
5506312PIX	WILO3F	2	1"	125 mm	Generic pump	NI	1
5506312PEIX	WILO4F	2	1"	125 mm	WILO4F pump	NI	1
5506314PIX	WILO3F	4	1"	125 mm	Generic pump	NI	1
5506314PEIX	WILO4F	4	1"	125 mm	WILO4F pump	NI	1
5506316PIX	WILO3F	6	1"	125 mm	Generic pump	NI	1
5506316PEIX	WILO4F	6	1"	125 mm	WILO4F pump	NI	1
5506318PIX	WILO3F	8	1"	125 mm	Generic pump	NI	1
5506318PEIX	WILO4F	8	1"	125 mm	WILO4F pump	NI	1



CTC 20 >> p. 287,442



ADH 20 >> p. 287,442



M 106 >> p. 287,442



CLIMA-HUB >> p. 433



RA 761 / RP 731 >>p. 110

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VARIMIX PRO - HIGH FLOW RATE MODULAR SYSTEM FOR THERMAL POWER STATIONS, STAINLESS STEEL VERSION

VAR 00 IX



Hydraulic separator/pressure equalizer with automatic air vent valve, drainage valve and magnets (2 x 12000 Gauss) for VARIMIX PRO system, stainless steel version.

Code	Size	Class	Packaging
550634IX	1"1/2 - Q Max 4.500 l/h	NI	1

VAR 30 IX-2W



2-way modular distribution manifold for VARIMIX PRO system, stainless steel version.

Code	Size	Class	Packaging
550638IX	1"1/2 x 1"	NI	1

VAR 30 IX-3W



3-way modular distribution manifold for VARIMIX PRO system, stainless steel version.

Code	Size	Class	Packaging
550639IX	1"1/2 x 1"	NI	1

VAR 301 IX-2W



2-way modular distribution single-sided manifold for VARIMIX PRO system, stainless steel version.

Code	Size	Class	Packaging
550627IX	1"1/2 x 1"	NI	1

VAR 301 IX-3W



3-way modular distribution single-sided manifold for VARIMIX PRO system, stainless steel version.

Code	Size	Class	Packaging
550628IX	1"1/2 x 1"	NI	1

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ACCESSORIES FOR VARIMIX EVO - VARIMIX PRO

T 5012 U



Thermostatic head with incorporated command and remote contact sensor.

Code	Size	Range	Length	Class	Packaging
501176U	M30 x 1,5	30-55 °C	2 m	AA	5 / 40

RV 01



Axial motor. Suitable for all IVAR thermostatic inserts.

Code	Size	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC/DC)	PC	1 / 100

TE 3061



Electrothermal head normally closed (proportional control 0-10 V). Suitable for all IVAR thermostatic inserts.

Code	Size	Class	Packaging
500887	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	AC	100

CTC 20



Revolving actuator with incorporated regulator and probes for fixed point control of mixing valves.

Code	Size	Class	Packaging
501648	230 V AC	PC	1

ADH 20



Revolving actuator with incorporated regulator and probes for climatic control of mixing valves.

Code	Size	Class	Packaging
501647	230 V AC	PC	1

M 106



Motor for rotor mixing valves.

Code	Size	Class	Packaging
501394	3-point regulation (230 V AC)	PC	1 / 8
501395	Proportional 0-10 V (24 V AC)	PC	1 / 8
501396	3-point regulation (24 V AC)	PC	10



CLIMA•HUB - Electronic controller for heating and cooling systems >>p. 433

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ACCESSORIES FOR HIGH FLOW RATE MODULAR DISTRIBUTION SYSTEMS VARIMIX EVO - VARIMIX PRO

AVAR 10



Kit with secondary circuit overpressure bypass for VARIMIX systems.

Code	Size	Range	Class	Packaging
550635	1"	0,2-0,6 bar	NI	1

AVAR 15



Kit with differential pressure meter for secondary circuit balancing for VARIMIX systems.

Code	Size	Class	Packaging
550636	1"	NI	1

AVAR 20



Kit with primary circuit overpressure bypass for VARIMIX systems.

Code	Size	Class	Packaging
550637	1"	NI	1

AVAR 08 IX



Nipple for connecting two modular distribution manifolds for VARIMIX system.

Code	Size	Class	Packaging
501667IX	1"1/2 swivel x 1"1/2 swivel	NI	10 / 40

AVAR 25



Pair of fittings for connecting a booster module to the side outlet of the modular distribution manifold for the VARIMIX system.

Code	Size	Class	Packaging
520470	1" M x 1"1/2 F swivel	NJ	1 / 10

AVAR 26



Pair of fittings for connecting a booster module to VARITANK 50.

Code	Size	Class	Packaging
520471	1"1/2 M TP x 1" M TP	NJ	1 / 10

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AVAR 06



Heat metering kit for VAR 10 - VAR 20 - VAR 21 (VARIMIX system).

Code	Size	Class	Packaging
KSB0181	1" M x 1" F	UA	1 / 4



Heat meter >>p. 417

AVAR 03



Insulation for VAR 00 / VAR 00 IX.

Code	Module	Class	Packaging
550640	VAR 00 - VAR 00 IX	NI	1

AVAR 04 2W



Insulation for VAR 30 2W / VAR 30 IX-2W / VAR 301 IX-2W.

Code	Module	Class	Packaging
550641	VAR 30 2W - VAR 30 IX-2W - VAR 301 IX-2W	NI	1

AVAR 04 3W



Insulation for VAR 30 3W / VAR 30 IX-3W / VAR 301 IX-3W.

Code	Module	Class	Packaging
550642	VAR 30 3W - VAR 30 IX-3W - VAR 301 IX-3W	NI	1

AVAR 07



Insulation for AVAR 10 - AVAR 15 - AVAR 20.

Code	Module	Class	Packaging
550643	AVAR 10 - AVAR 15 - AVAR 20	NI	1

AVAR 05



Insulation for VAR 10 / VAR 10 SP / VAR 10 IX / VAR 10 IX SP / VAR 20 / VAR 20 SP / VAR 20 IX / VAR 20 IX SP / VAR 21 / VAR 21 SP / VAR 21 IX / VAR 21 IX SP.

Code	Insulation type	Module	Class	Packaging
550644	Generic pump	VAR 10 - VAR 10 SP - VAR 10 IX - VAR 10 IX SP - VAR 20 - VAR 20 SP - VAR 20 IX - VAR 20 IX SP - VAR 21 - VAR 21 SP - VAR 21 IX - VAR 21 IX SP	NI	1
550644D	DAB pump	VAR 10 - VAR 10 SP - VAR 10 IX - VAR 10 IX SP - VAR 20 - VAR 20 SP - VAR 20 IX - VAR 20 IX SP - VAR 21 - VAR 21 SP - VAR 21 IX - VAR 21 IX SP	NI	1
550644G	GRUNDFOS pump	VAR 10 - VAR 10 SP - VAR 10 IX - VAR 10 IX SP - VAR 20 - VAR 20 SP - VAR 20 IX - VAR 20 IX SP - VAR 21 - VAR 21 SP - VAR 21 IX - VAR 21 IX SP	NI	1
550644W	WILO pump	VAR 10 - VAR 10 SP - VAR 10 IX - VAR 10 IX SP - VAR 20 - VAR 20 SP - VAR 20 IX - VAR 20 IX SP - VAR 21 - VAR 21 SP - VAR 21 IX - VAR 21 IX SP	NI	1

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VARITANK 50 is a 50-litre inertial storage tank. It is a device designed to store thermal energy and make it available when needed, reducing the number of times the heat pump switches on and off, and preserving its valuable components. This contributes to a more efficient heating system and enables the heat pump to handle higher heating and cooling loads.

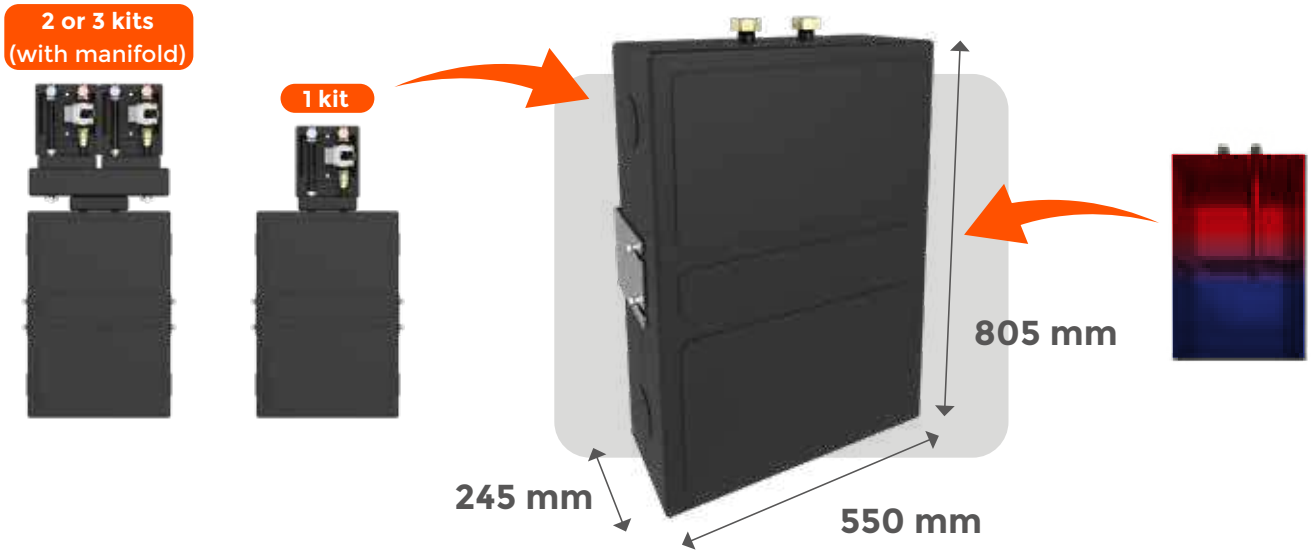
Technical specifications
Max. primary flow rate: 4500 l/h

VARITANK 50 is particularly flexible because it can operate either independently or in combination with VARIMIX mixing and distribution system, combining it with special distribution manifolds with low pressure drops. It fulfils the function of a hydraulic separator and is designed to be installed in different positions, easily meeting various usage requirements.

It can also be connected to an electrical heating element that helps maintain the water temperature during winter operation and facilitates defrosting cycles.
In addition, the EPP insulation cover also allows operation in summer mode.

+ PLUS

- Reduces the number of heat pump switching on and off.
- Helps make the heating system more efficient.
- Can operate either independently or in combination with the VARIMIX mixing and distribution system.
- Can function as a hydraulic separator.
- Can be connected to an electric heater.
- EPP insulation cover for summer operation.
- Compact, measuring only 550x805x245 mm.



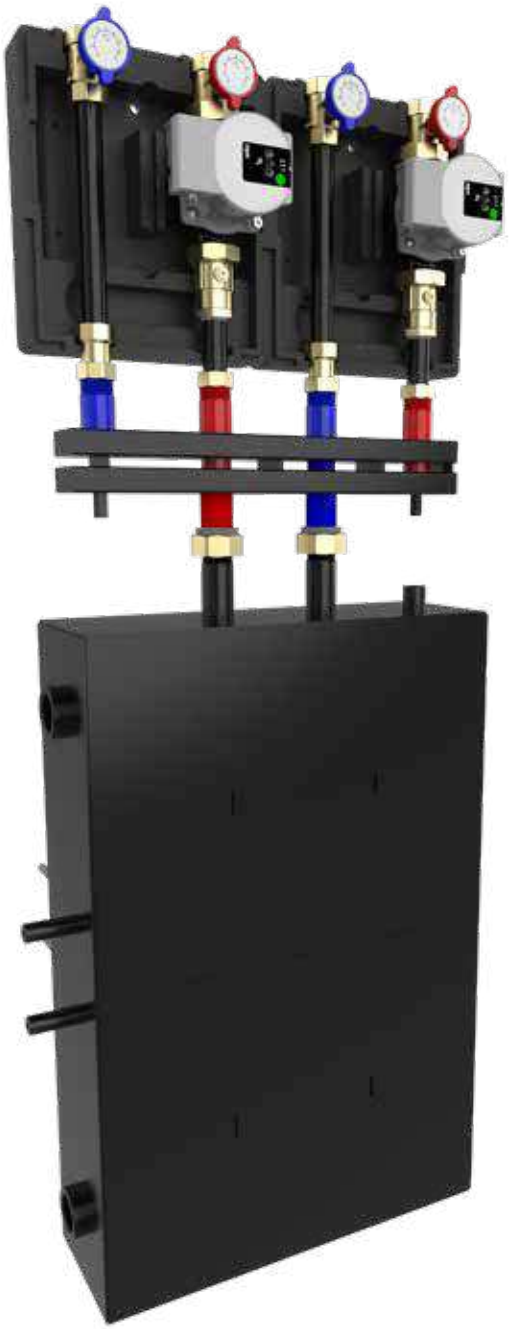
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VARITANK 50



Inertial storage tank.

Code	Size	Class	Packaging
550647	50 l	NI	1



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ROTOR MIXING 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 motor.

3-way valves
The 3-way valve (Figures 2 a-b-c and 3 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 4 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 1a).
With 4-way valves, two pumps need to be installed to obtain mixing on the return line (Figure 1b).

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

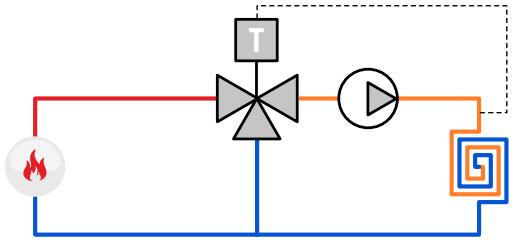


Fig. 1 (a)
Circuit with 3-way valve: one pump is sufficient.

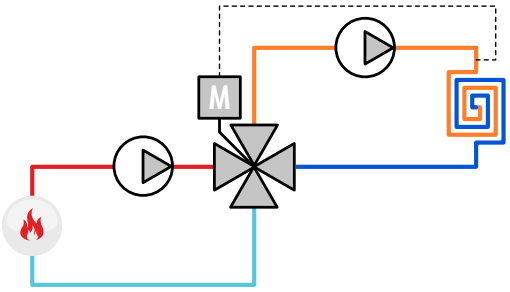


Fig. 1 (b)
Circuit with 4-way valve: 2 pumps are required.

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MIX 3WML



3-way rotor mixing valve with lateral mixer.

Code	Kv	Size	Class	Packaging
501547	4	3/4"	PA	1 / 16
501548	6	3/4"	PA	1 / 16
501549	8	3/4"	PA	1 / 16
501550	8	1"	PA	1 / 16
501551	12	1"	PA	1 / 16
501552	12	1"1/4	PA	1 / 16
501553	18	1"1/4	PA	1 / 16
501564	28	1"1/2	PA	1 / 6
501565	44	2"	PA	1 / 6



M 106 >> p. 287,442



CTC 20 >> p. 287,442



ADH 20 >>p. 287,442

FOCUS: 3-way valve with side mixing

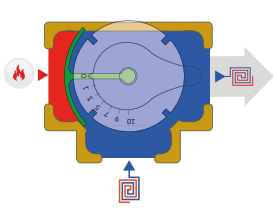


Fig. 2 (a)

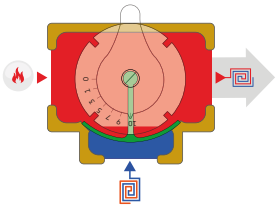


Fig. 2 (b)

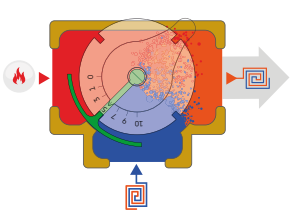


Fig. 2 (c)

AMIX 01



Blue hand knob with screw for rotor mixing valves.

Code	Class	Packaging
501570	PC	1

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MIX 3WMC



3-way rotor mixing valve with central mixer.

Code	Kv	Size	Class	Packaging
501629	4	3/4"	PA	1 / 16
501630	6	3/4"	PA	1 / 16
501631	8	3/4"	PA	1 / 16
501589	8	1"	PA	1 / 16
501590	12	1"	PA	1 / 16
501591	12	1"1/4	PA	1 / 16
501599	18	1"1/4	PA	1 / 16
501798	28	1"1/2	PA	1 / 6
501799	44	2"	PA	1 / 6



M 106 >> p. 287,442



CTC 20 >> p. 287,442



ADH 20 >>p. 287,442

FOCUS: 3-way valve with central mixing

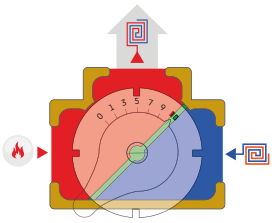


Fig. 3 (a)

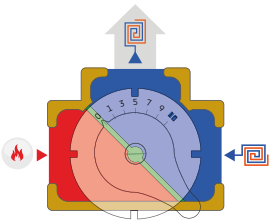


Fig. 3 (b)

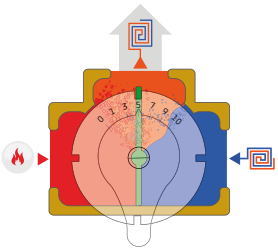


Fig. 3 (c)

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MIX 4W



4-way rotor mixing valve.

Code	Kv	Size	Class	Packaging
501554	4	3/4"	PA	1 / 16
501555	6	3/4"	PA	1 / 16
501556	8	3/4"	PA	1 / 16
501557	8	1"	PA	1 / 16
501558	12	1"	PA	1 / 16
501559	12	1"1/4	PA	1 / 16
501560	18	1"1/4	PA	1 / 16
501562	28	1"1/2	PA	1 / 6
501563	44	2"	PA	1 / 6



M 106 >> p. 287,442



CTC 20 >> p. 287,442



ADH 20 >>p. 287,442

FOCUS: 4-way mixing valve

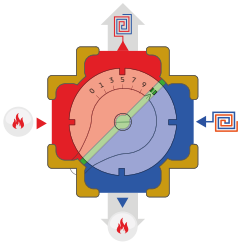


Fig. 4 (a)
Completely open

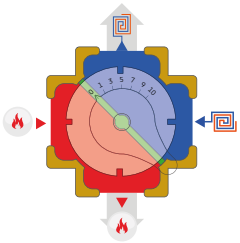


Fig. 4 (b)
Completely closed

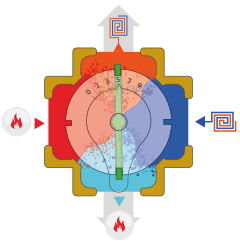


Fig. 4 (c)
Intermediate position

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MIX 24



Bivalent 4-way rotor mixing valve.

Code	Kv	Size	Class	Packaging
501764	4	3/4"	PA	1 / 16
501765	6	3/4"	PA	1 / 16
501766	8	1"	PA	1 / 16
501767	10	1"	PA	1 / 16
501768	16	1"1/4	PA	1 / 16



M 106 >> p. 287,442

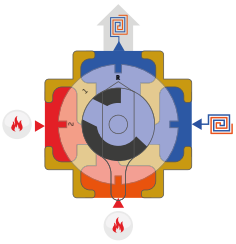


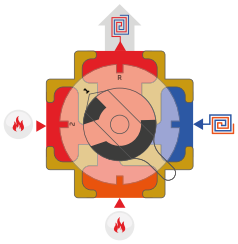
CTC 20 >> p. 287,442

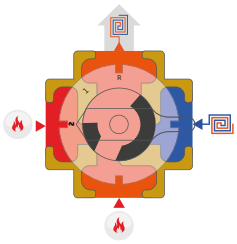


ADH 20 >>p. 287,442

FOCUS: 4-way bivalent mixing valve

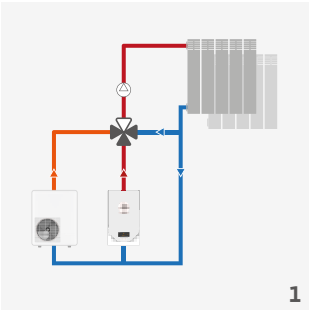


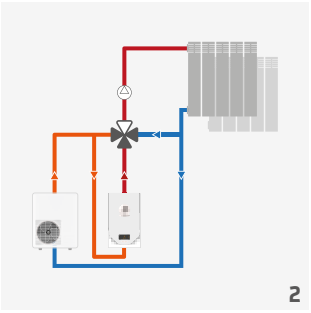


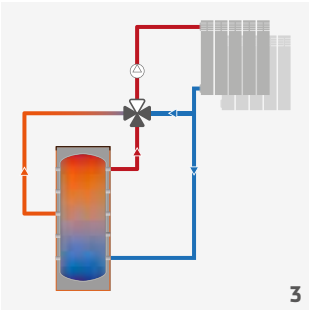


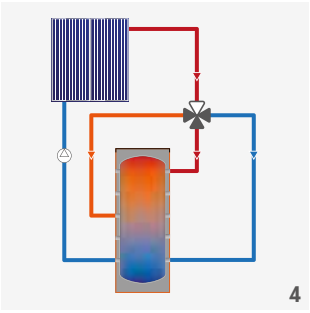
4-way **bivalent mixing valves** are mainly used in systems with dual heat sources, connected in parallel (1) or in series (2). In combination with a storage tank, they are used to facilitate the withdrawal of water at different temperatures (3) but also as diverter valves to facilitate stratification of the storage tank itself (4).

Finally, they can be used to raise the return temperature to a generator (e.g. biomass) with an anti-condensation function. All these configurations depend on the connections used and the position of the rotor that regulates the passage of fluids









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THERMOSTATIC MIXING VALVES

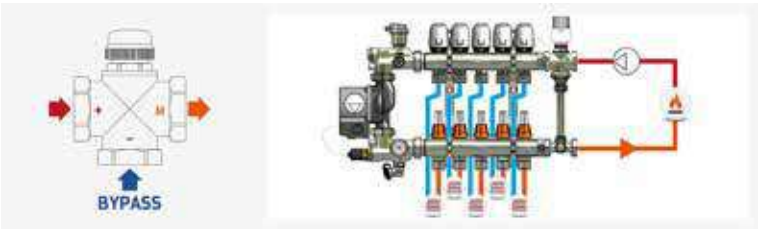
The valves in this section are piston mixers controlled by an external thermostatic actuator, equipped with a remote probe (T 5011 / T 5012,) or motorized for modulating regulation by means of RV 01 motors or TE 3061 electrothermal actuator.
The only difference between MR 02 and MR 03 is the position 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.

MR 01



Thermostatic mixing valves with lateral mixer and bypass in the 3rd way

Code	Kv	Size	Class	Packaging
501420	3.30	1" F x 1" F x 1" F	PA	2 / 32

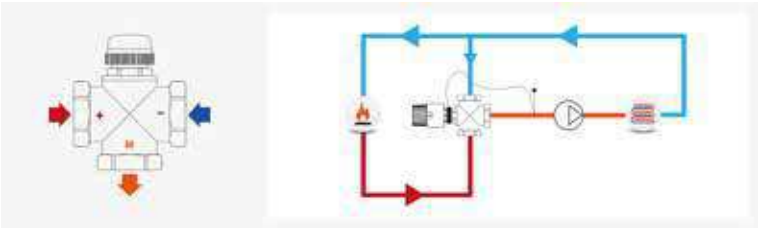


MR 02



Thermostatic mixing valves with mixer in the 3rd way

Code	Kv	Size	Class	Packaging
501421	3	1" F x 1" F x 1" F	PA	2 / 32

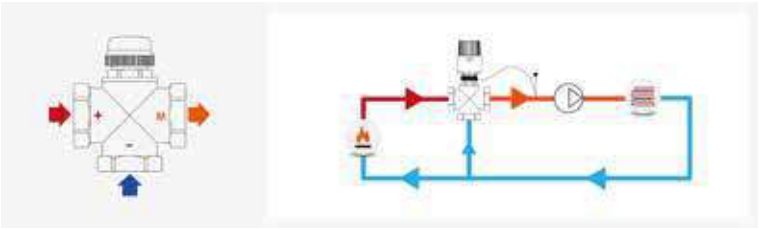


MR 03



Thermostatic mixing valves with lateral mixer.

Code	Kv	Size	Class	Packaging
501422	2.70	1" F x 1" F x 1" F	PA	2 / 32




T 5011 >> p. 232


T 5012 >> p. 232


TE 3061 >> p. 233,287,445


RV 01 >>p. 233,241,277,287,442

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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 weather compensation control by means of an axial servomotor.

The same valve can be used in diverter mode. In this case, the fluid enters through port AB and flows either towards B (fig. 3) or towards A (fig. 4).

One possible use is installation of the valve upline of a storage tank and on the basis of the fluid temperature, the water is diverted into the upper or lower part of the same to encourage stratification of the water on the basis of the temperature.
Actuation is performed by an on/off electrothermal head.

Operation in mixing mode

Fig. 1

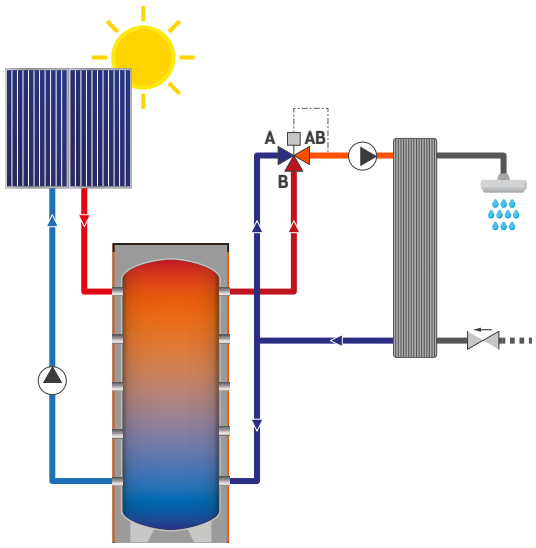
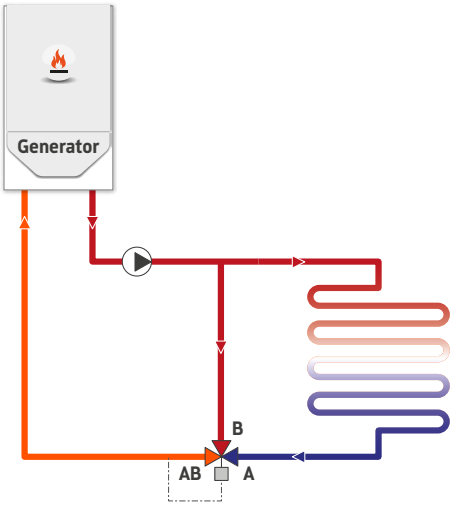


Fig. 2



Operation in diverter mode

Fig. 3

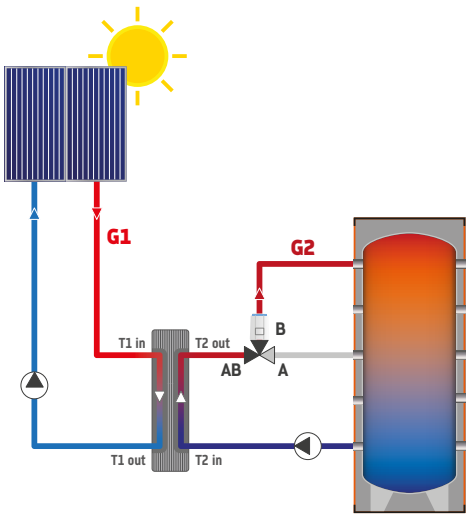
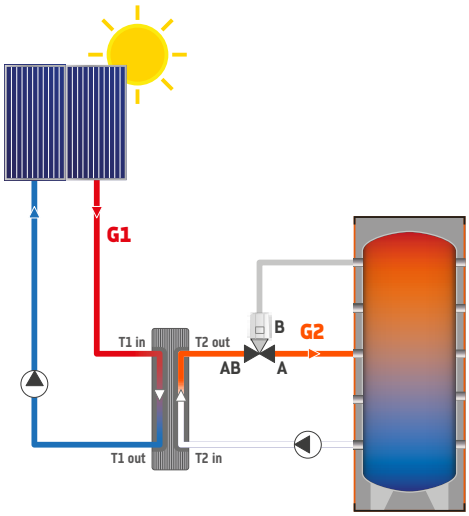


Fig. 4



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MR 22



Thermostatic axial mixing valve for high flow capacity with female connection.

Code	Size	Class	Packaging
501578	DN 32	PA	1 / 12

MR 32



Thermostatic axial mixing valve for high flow capacity with soft seal fittings.

Code	Size	Class	Packaging
501579	DN 32	PA	1 / 8



TE 3061 >> p. 233,287,445



RV 01 >>p. 233,241,277,287,442

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NEOVENT

NEOVENT L



NEOVENT M

Star-shaped bubble-breaker mesh for effective air separation

800 µm filter

Fully inspectable CW 617 N brass body, designed to facilitate maintenance and internal cleaning

Integrated drain valve, which can be positioned on either side of the device

Powerful 12,000 G magnet that captures metallic impurities, preserving system efficiency

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NEOVENT LHF



Manual/automatic vent valve with 800 µm filter, star-shaped bubble breaker mesh, replaceable cartridge in case of clogging, magnet (12,000 Gauss) and horizontal female connections.

Code	Size	Class	Packaging
502326	3/4" F	TI	1 / 6
502327	1" F	TI	1 / 6
502328	1"1/4 F	TI	1 / 6
502329	1"1/2 F	TI	1 / 6

NEOVENT LUF



Manual/automatic vent valve with 800 µm filter, star-shaped bubble breaker mesh, replaceable cartridge in case of clogging, magnet (12,000 Gauss) and swivel brass T-fitting with female connections.

Code	Size	Class	Packaging
502347	1" F	TI	6 / 24
502349	1"1/4 F	TI	1 / 6

NEOVENT LUM

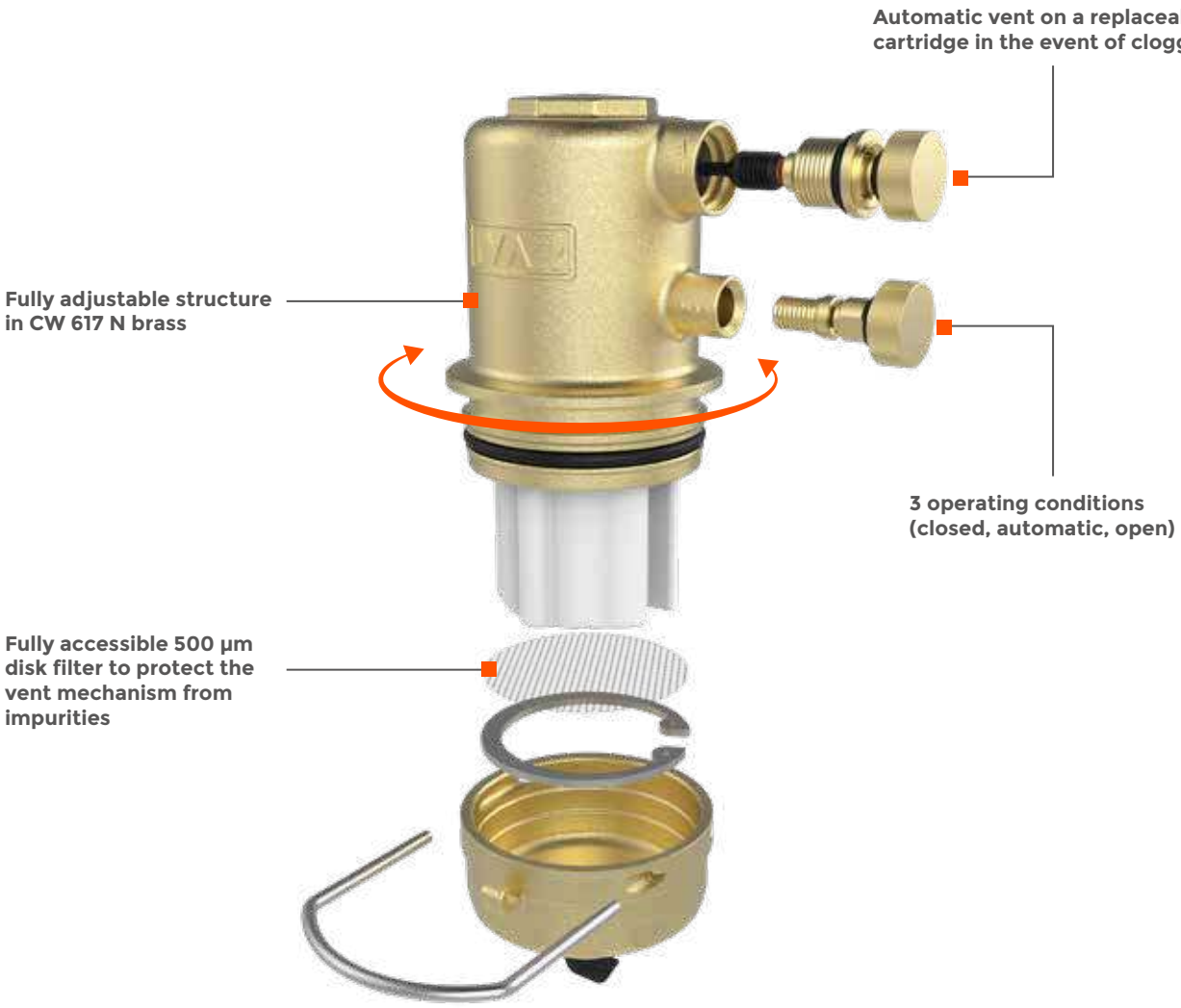


Manual/automatic vent valve with 800 µm filter, star-shaped bubble breaker mesh, replaceable cartridge in case of clogging, magnet (12,000 Gauss) and swivel brass T-fitting with male connections.

Code	Size	Class	Packaging
502346	1" M	TI	1 / 6
502348	1"1/4 M	TI	6 / 48

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NEOVENT M



NEOVENT MM



Manual/automatic vent valve with 500 µm disc filter, replaceable cartridge in case of clogging and male connection.

Code	Size	Class	Packaging
502308	1/2" M	TI	1 / 32
502310	3/4" M	TI	1 / 32

NEOVENT MF



Manual/automatic vent valve with 500 µm disc filter, replaceable cartridge in case of clogging and female connection.

Code	Size	Class	Packaging
502309	1/2" F	TI	1 / 32

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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 00 H



Female-female safety valve.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702303	1/2" F x 1/2" F	3 bar		TG	10 / 80
5702313	3/4" F x 3/4" F	3 bar		TG	15 / 120

VSC 10 H



Male-female safety valve.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702323	1/2" F x 1/2" M	3 bar		TG	20 / 160
5702333	3/4" F x 3/4" M	3 bar		TG	15 / 120

VSC 01 H



Female-female safety valve with connection for pressure gauge.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702443	1/2" F x 1/2" F	3 bar		TG	20 / 160
5702453	3/4" F x 3/4" F	3 bar		TG	15 / 120

VSC 11 H



Male-female safety valve with connection for pressure gauge.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702463	1/2" M x 1/2" F	3 bar		TG	20 / 160
5702473	3/4" M x 3/4" F	3 bar		TG	15 / 120

VSC 05 H



Female-female safety valve with pressure gauge.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702343	1/2" F x 1/2" F	3 bar		TG	1
5702353	3/4" F x 3/4" F	3 bar		TG	1

VSC 15 H



Male-female safety valve with pressure gauge.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702363	1/2" M x 1/2" F	3 bar		TG	1
5702373	3/4" M x 3/4" F	3 bar		TG	1

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WALL MOUNTING MANIFOLDS

CPS 10 A



Wall mounting stainless steel manifold with male connection.

Code	Size	Class	Packaging
506068A	3/4" F x 3/4" M	TG	1

CPS 10 AF



Wall mounting stainless steel manifold with female connection.

Code	Size	Class	Packaging
506068AF	3/4" F x 3/4" F	TG	1

CPS 20 A



Assembled wall mounting stainless steel manifold with male connection, safety valve, pressure gauge, automatic air valve, swiveling nipple and ball valve with drainage valve for expansion tank isolation.

Code	Size	Class	Packaging
506069A	3/4" F x 3/4" M	TG	1

CPS 20 AF



Assembled wall mounting stainless steel manifold with female connection, safety valve, pressure gauge, automatic air valve, swiveling nipple and ball valve with drainage valve for expansion tank isolation.

Code	Size	Class	Packaging
506069AF	3/4" F x 3/4" F	TG	1

CPS 30 A



Assembled wall mounting stainless steel manifold with male connection, safety valve, pressure gauge, automatic air valve and valve for expansion tank isolation.

Code	Size	Class	Packaging
506069BA	3/4" F x 3/4" M	TG	1

CPS 30 AF



Assembled wall mounting stainless steel manifold with female connection, safety valve, pressure gauge, automatic air valve and valve for expansion tank isolation.

Code	Size	Class	Packaging
506069BAF	3/4" F x 3/4" F	TG	1

CPS 10



Wall mounting brass rod manifold with male connection.

Code	Size	Class	Packaging
506068	3/4" F x 3/4" M	TG	1

CPS 20



Assembled wall mounting brass rod manifold with male connection, safety valve, pressure gauge, automatic air valve, swiveling nipple and ball valve with drainage valve for expansion tank isolation.

Code	Size	Class	Packaging
506069	3/4" F x 3/4" M	TG	1

CPS 30



Assembled wall mounting brass rod manifold with male connection, safety valve, pressure gauge, automatic air valve and valve for expansion tank isolation.

Code	Size	Class	Packaging
506069B	3/4" F x 3/4" M	TG	1

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AUTOMATIC FILLING GROUPS

During normal operation of a heating system, the internal pressure decreases due to the release of gases dissolved in the water through any deaerators and vents installed, or after bleeding of the heating units.
When the pressure drops too much, the heat generator will shut down until the correct operating pressure is restored.

Thanks to the automatic filling unit, this operation does not require the intervention of a technician. The device is connected on one side to the mains water supply, and on the other to the heating system.
When the pressure on the system side falls below the calibration value, the filling unit automatically draws water from the mains supply for topping up.

A check valve integrated in the device prevents inversion of the two flows in the event of a decrease in the pressure on the supply side.

The filling unit also incorporates a metal mesh strainer to prevent the entry of impurities into the heating system, and a shut-off valve to interrupt its operation.

+ PLUS

- Automatic filling, without operator intervention.
- System pressure always close to the calibration pressure.
- Safe.

GA 00



Automatic filling group with pressure gauge, complete with isolation, filter and non-return check valve; piston operation.

Code	Size	Range	Max inlet pressure	Preset	Class	Packaging
509000	1/2" M x 1/2" F	0,5 - 4 bar	16 bar	1.50 bar	TG	1 / 6

GA 00 SM



Automatic filling group without pressure gauge, complete with isolation, filter and non-return check valve; piston operation.

Code	Size	Range	Max inlet pressure	Preset	Class	Packaging
509000SM	1/2" M x 1/2" F	0,5 - 4 bar	16 bar	1.50 bar	TG	1 / 6

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BYPASS VALVES

AC 623 N



Bypass differential valve straight/angled for high flow capacity.

Code	Size	Range	Class	Packaging
500389N	3/4" F x 3/4" M	0,2-0,6 bar	TG	5 / 40
5003891N	3/4" F x 1" M	0,2-0,6 bar	TG	5 / 40

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ICESTOP

The ICESTOP anti-freeze valve is installed in the closed circuit of the heat pump to prevent unexpected power failures or system breakdowns from causing the water to freeze at low temperatures with consequent damage to pipes, equipment and the system.



PROTECTION

MECHANICAL SYSTEM
No electricity

NO ICE

“VACUUM” VALVE
“Vacuum” valve on anti-freeze valve, removable and replaceable.



DIMENSIONS
1” and 1 ¼”



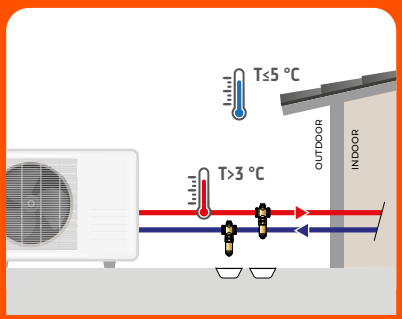
NON-RETURN VALVE
for automatic shut-off.

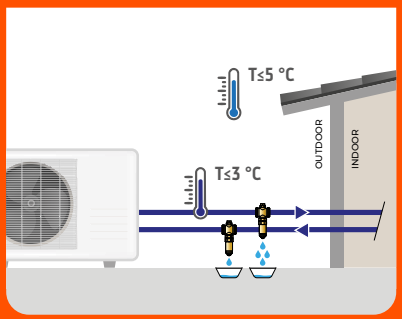


WATER SENSOR CARTRIDGE
When the temperature sensing cartridge is removed, the valve will automatically close to prevent water leakage.



Prevents ice formation in the circuit of packaged heat pump systems.





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ICESTOP



Anti-freeze valve with interchangeable cartridge and anti-freeze function for the heat pump's hydraulic circuit.

Code	Size	Max inlet pressure	Operating temp.	Class	Packaging
5702500	1"	10 bar	-30 °C / 60 °C	TG	1 / 20
5702501	1"1/4	10 bar	-30 °C / 60 °C	TG	1 / 24

IS 02



Non-return valve for automatic shut-off for antifreeze valve.

Code	Class	Packaging
5702502	TG	8 / 128

IS 03



Temperature sensing cartridge for antifreeze valve.

Code	Class	Packaging
5702503	TG	5 / 40

IS 04



"Vacuum" valve for antifreeze valve.

Code	Class	Packaging
5702504	TG	5 / 80

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WATER TREATMENT



INDEX



DIRTSTOP® MINI - Ultracompact magnetic dirt separator with strainer 314



DIRTSTOP® EASY - Magnetic dirt separator with easy assembly 316



DIRTSTOP® XL - Magnetic dirt separator with triple filtering action 320



Y-type magnetic filters 324



Additives 325



POLIFEMO® - Polyphosphates and silicates doser with integrated bypass system 326



POLIFEMO® EASY - Polyphosphates and silicates doser 330



BRIX - Acid condensate neutralizer 332



DIRTSTOP® MINI

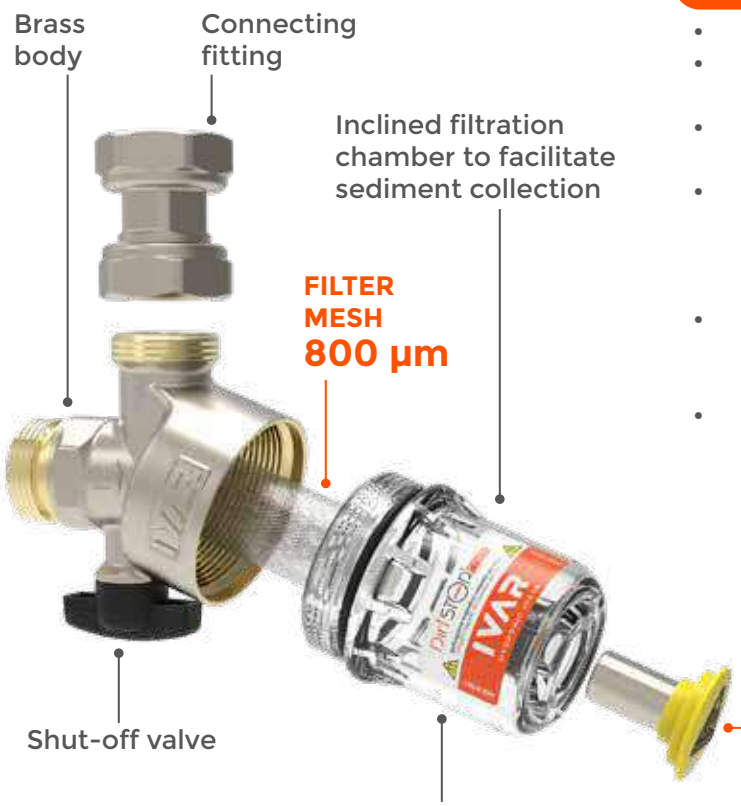
Dirtstop® MINI is an ultra-compact magnetic dirt separator with filtering action, suitable for installation under the boiler.
Thanks to the transparent settling chamber, it is possible to quickly inspect the accumulation of impurities inside.

The metal parts of the heating system are subject to corrosion, which releases ferrous impurities into the water. In the heat generator, these impurities can clog the heat exchanger or be attracted by the permanent magnet of the electronic circulation pumps, causing them to jam.
There may also be other impurities in the heating system that tend to accumulate in parts of the system with a reduced passage section, causing blockages, noise and other malfunctions.

Dirtstop® MINI helps to keep the heating system in the best possible condition.
Periodic cleaning of the dirt separator is quick and easy, without having to empty the system.

Materials:
Body: nickel-plated CW617N brass with bare internal surfaces
Filter chamber: GRILAMID® technopolymer
Magnet-holder cap: ABS
Filter: AISI 304 stainless steel
Ball: chrome-plated CW617N brass
Valve sealing gaskets: PTFE
Fittings: CW617N brass
Ros: CW617N brass
Lever: PA6 + GF
Sealing elements: peroxide EPDM

Technical specifications:
Fluid temperature: 0-90 °C.
Maximum operating pressure: 6 bar.
Flow coefficient (Kv): 5.0 m^3/h.
Mesh strainer: 800 µm in stainless steel AISI 304.
Compatible fluids: water or glycol solution (max. 50%).
Magnet: Neodymium, magnetic induction B = 1.2 T (12,000 G), Diametric polarisation to maximise capture.
Filter connections 3/4" M x 3/4" M
Fitting connections 3/4" F swivel x 3/4" F swivel

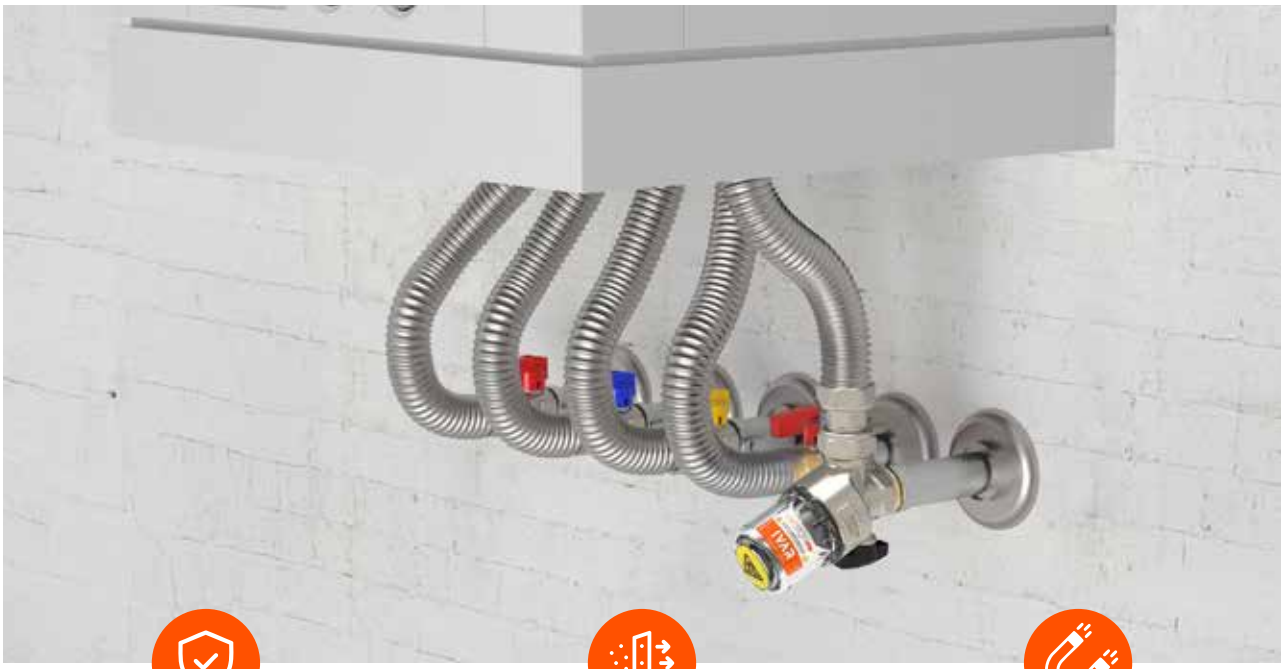


+ PLUS

- Can be installed directly below the boiler.
- Transparent filter chamber for monitoring sediment.
- Extremely compact for easy installation even in confined spaces.
- Powerful magnet with diametric polarisation to generate a much more uniform magnetic field, thus optimising capture of all impurities.
- Strainer with 800 µm filter mesh: an exceptional combination of filtering capacity and ease of cleaning.
- Made from Grilamid®, a technopolymer with extraordinary mechanical properties, and bras.

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DIRTSTOP® MINI - ULTRACOMPACT MAGNETIC DIRT SEPARATOR WITH STRAINER



PROTECTION

FILTRATION

COLLECTION

DIRTSTOP® MINI



Ultracompact magnetic dirt separator with strainer complete with isolation ball valve and swiveling fitting with/without non return valve.

Code	Size	Non return valve	Color	Class	Packaging
520550	3/4" F x 3/4" M	✓		TI	1 / 12
520555	3/4" F x 3/4" M	-		TI	1 / 12



IV 400 >> p. 325



IV 100 HT >> p. 325



IV 100 LT >>p. 325

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DIRTSTOP® EASY

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® Easy helps keep heating systems in the best possible condition thanks to the combined action of a stainless-steel filter strainer with 800 µm filter mesh and a powerful 12,000 gauss magnet. Regular cleaning of the filter is a fast and safe procedure which does not require draining down the system.

The new **DirtSTOP® Easy** is revolutionary as it comes ready to install: install it however you want, straight out of the box. In any installation position, either horizontal or vertical and with any connection used, it always offers the best possible performance, without any additional configuration. Install it straight out of the box – what could be easier? What's more, its super-compact dimensions are perfect for installation under the boiler, even when space is very limited. The material it is made from, called IXEF®, is a technopolymer with exceptional mechanical performance, comparable to brass for this type of application, with the added advantage of being lighter.

DirtSTOP® Easy is available with ¾" connections in black or white.

Materials:
Body: technopolymer IXEF®
Shut-off ball valves: CW617N brass
Swivel fitting: CW617N brass
Caps: CW617N brass
Sealing elements: peroxide-cured EPDM

Technical specifications:
Fluid temperature: 0-90 °C
Maximum operating pressure: 3 bar
Flow coefficient (Kv):
- 5,5 m^3/h straight position;
- 6,5 m^3/h angle position.

Max flow rate (calculated with ΔP = 0.1 bar):
- 1,74 m^3/h straight position;
- 2,06 m^3/h angle position.

Mesh strainer: 800 µm in stainless steel AISI 304
Compatible fluids: water or glycol solution (max 50%)
Magnet:
- Neodymium, magnetic induction B = 1.2 T (12,000 G);
- Diametric polarisation to maximise capture.

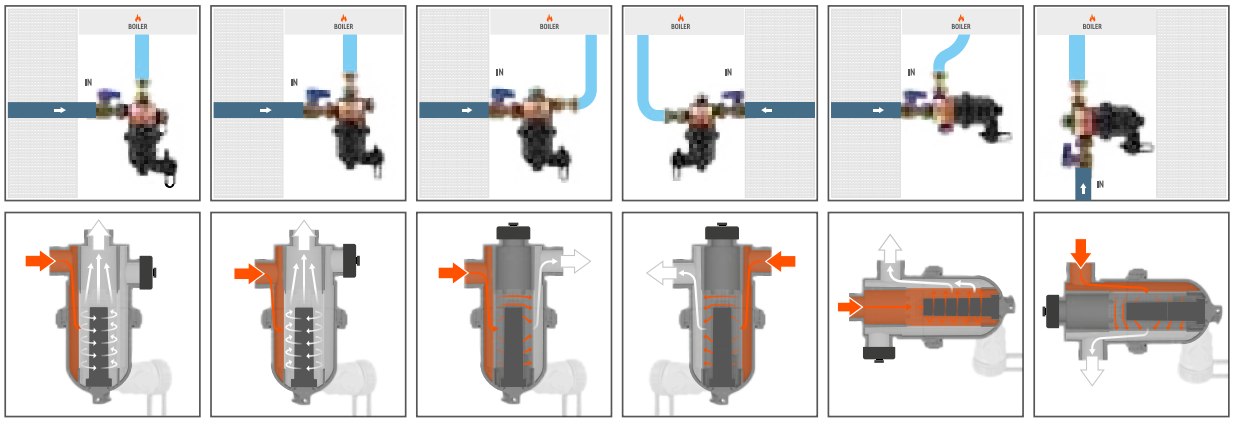
Connections: 3/4" M x 3/4"F


code 520360


code 520360W

Ready to use: open the box, install it as you want!

It always filters 100% in all positions



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Extremely compact for easy installation under the boiler, even in confined spaces



Body in technopolymer IXEF®
Extraordinary mechanical properties, comparable to brass. Corrosion resistant.

Filtering mesh
Extraordinary meeting point between filtering capacity and ease of cleaning.

Large settling chamber complete with a ball valve for draining off impurities, ensuring quick and easy cleaning at all times.

Powerful magnet: 12.000 Gauss
Diametrically polarized for maximum effectiveness in attracting impurities.

EASY AND QUICK MAINTENANCE
Interceptable drain: allows for quick and easy cleaning even while the system is in operation.

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DIRTSTOP® EASY - MAGNETIC DIRT SEPARATOR WITH EASY ASSEMBLY

DIRTSTOP® EASY



Compact swiveling magnetic dirt separator with easy assembly complete with strainer, straight isolation ball valve, swiveling fitting and tap connector.

Code	Size	Color	Class	Packaging
520360	3/4" F x 3/4" M	■	TI	1 / 12
520360W	3/4" F x 3/4" M	□	TI	1 / 12

CI DIRTSTOP®



Insulating cover for DIRTSTOP® and DIRTSTOP® EASY.

Code	Model	Class	Packaging
520217	DIRTSTOP® - DIRTSTOP® EASY	TI	1 / 4



IV 400 >> p. 325



IV 100 HT >> p. 325



IV 100 LT >>p. 325

Routine cleaning
to remove waste and sludge that accumulates at the bottom of the settling chamber, via the integrated drain valve.

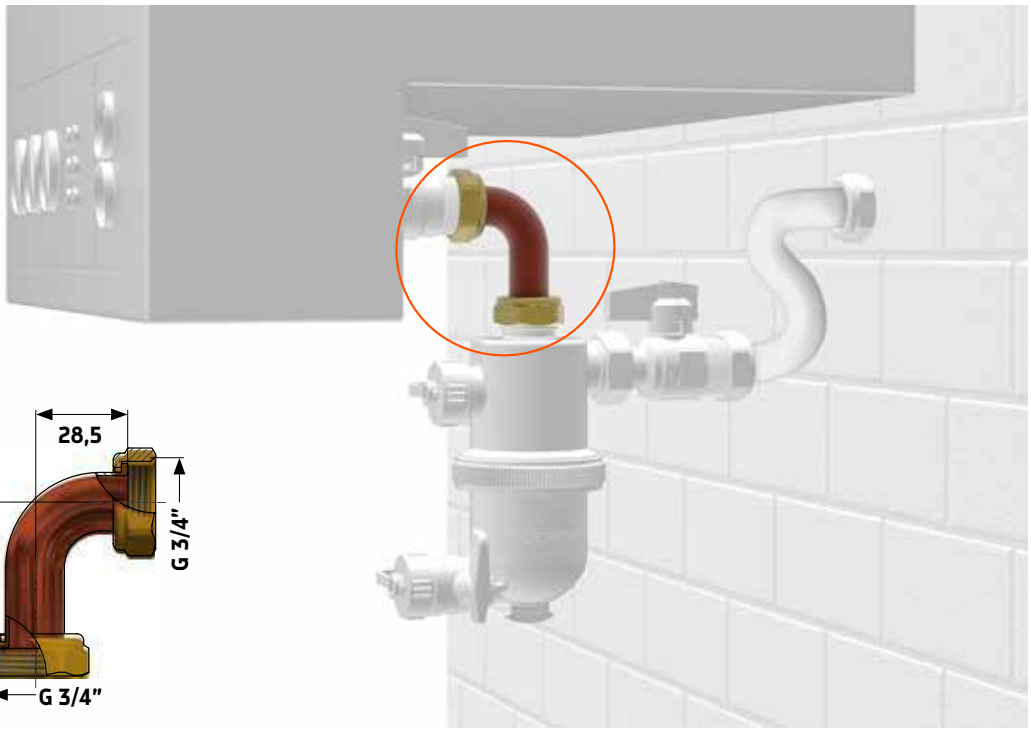


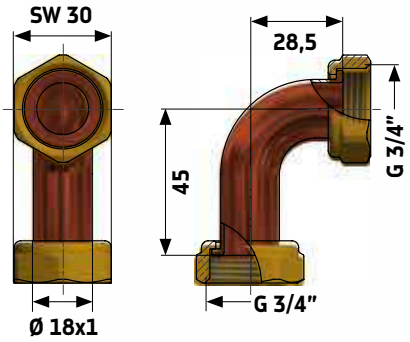
Special cleaning
via the strainer mesh and lower casing, to be carried out at least once a year.





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ACV 01



Accessory for DIRTSTOP® and DIRTSTOP® EASY installation on boilers with horizontal connections (compatible with Vaillant boilers EcoTEC pro, EcoTEC plus, EcoTEC exclusive).

Code	Size	Class	Packaging
520126	3/4" | Ø18/1 x 45 mm	TI	1 / 10

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DIRTSTOP® XL

When the flow rate of the system is high, such as with heat pumps, for example, it is important for the magnetic dirt separator to be a high-capacity model in order to have even more space available to allow the impurities present in the system to settle and ensure low pressure drops.

The new **DirtSTOP® XL** version has a 450 ml collection chamber which allows the purging frequency to be reduced and ensures high flow rates. The filter effect is based on a sequence of three different actions. Initial centrifugal separation of debris, provided by a vortex created by a special, patented insert. Subsequently, two powerful 12,000-gauss neodymium magnets retain any magnetic particles in the water. Finally, the filter action of an 800 µm stainless-steel mesh, "S"-shaped to maximise the available surface area and make the filtration as effective as possible.

The device is equipped with manual air bleed valve and drain valve for cleaning. The connections can be horizontal, vertical, or at 45° and can be used indifferently for entry or exit from the device. The shapes and materials have been carefully designed to ensure high levels of performance, strength and durability.

DirtSTOP® XL is available in various versions which differ by size and the material of the connections.



Materials:
Body, cyclonic insert and cap: PA66 + 30% glass fibre
Tee fitting and locking ring nut:
- PA66 + 30% glass fibre
- CW617N brass

Sealing elements: peroxide EPDM
Insulation material: ARPRO 4135 FR

Technical specifications:
Fluid temperature: 0-90 °C
Maximum operating pressure: 3 bar
Flow coefficient (Kv): 13.9
Maximum flow rate (approximate):
- ¾" M: 1.46 m^3/h
- ¾" F: 3.0 m^3/h
- 1" M: 2.75 m^3/h
- 1" F: 4.6 m^3/h
- 1" ¼ M: 4.6 m^3/h
- 1" ¼ F: 6.75 m^3/h

Mesh strainer:
- 500 µm in stainless steel AISI 304 for first cleaning
- 800 µm in stainless steel AISI 304

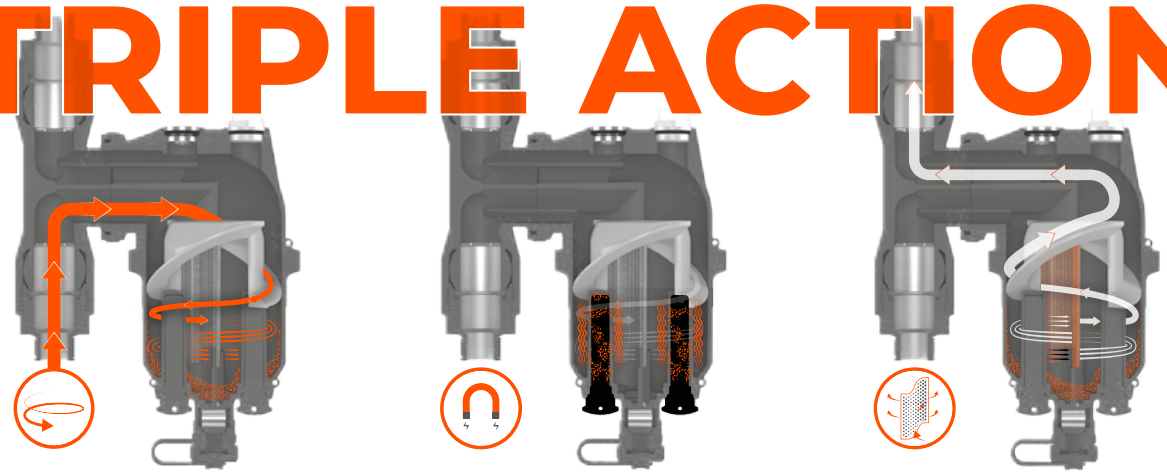
Compatible fluids: water or glycol solution (max 50%)
Magnet: Neodymium, magnetic induction (2 x 12.000 G);
Maximum tightening torque: 1.4 N·m;
Diametric polarisation to maximise capture.

+ PLUS

- **High flow rate, ideal for installations with heat pumps**
- Swirling water movement guaranteed by the patented insert.
- Mechanical filtration of system impurities with 800 µm S-profile mesh.
- Two high-power (2 x 12000 Gauss) magnets provide improved retention of ferrous impurities.
- Large settling chamber (450 ml) for accumulation of the collected impurities, reducing purging frequency.
- Gravitational action on the impurities for accumulation in the lower part of the dirt separator.
- The connections can be used for both input and output from the device, guaranteeing total ease of installation.

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TRIPLE ACTION



1 Swirling motion to facilitate debris separation and settling

2 Double powerful magnet (2 x 12000 Gauss)

3 Mechanical filtration with 800 µm mesh

Connections



Swiveling connections



Insulation shell
It is possible to have the product with insulation shell by adding "i" to the chosen code.



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DIRTSTOP® XL - MAGNETIC DIRT SEPARATOR WITH TRIPLE FILTERING ACTION

DIRTSTOP® XL PF



Swiveling magnetic dirt separator with triple filtering action complete with wrench for ring nut installation/removal, plastic Tee fitting, isolation ball valves and female connection.

Code	Size	Insulation	Color	Class	Packaging
520303	3/4" F x 3/4" F	-		TI	1 / 6
520304	1" F x 1" F	-		TI	1 / 6
520305	1"1/4 F x 1"1/4 F	-		TI	1 / 6
520303I	3/4" F x 3/4" F	✓		TI	1
520304I	1" F x 1" F	✓		TI	1
520305I	1"1/4 F x 1"1/4 F	✓		TI	1

DIRTSTOP® XL PM



Swiveling magnetic dirt separator with triple filtering action complete with wrench for ring nut installation/removal, plastic Tee fitting, isolation ball valves and male connection.

Code	Size	Insulation	Color	Class	Packaging
520300	3/4" M x 3/4" M	-		TI	1 / 6
520301	1" M x 1" M	-		TI	1 / 6
520302	1"1/4 M x 1"1/4 M	-		TI	1 / 6
520300I	3/4" M x 3/4" M	✓		TI	1
520301I	1" M x 1" M	✓		TI	1
520302I	1"1/4 M x 1"1/4 M	✓		TI	1

DIRTSTOP® XL BF



Swiveling magnetic dirt separator with triple filtering action complete with wrench for ring nut installation/removal, brass Tee fitting and female connection.

Code	Size	Insulation	Color	Class	Packaging
520316	1" F x 1" F	-		TI	1 / 6
520317	1"1/4 F x 1"1/4 F	-		TI	1 / 6
520316I	1" F x 1" F	✓		TI	1
520317I	1"1/4 F x 1"1/4 F	✓		TI	1

DIRTSTOP® XL BM



Swiveling magnetic dirt separator with triple filtering action complete with wrench for ring nut installation/removal, brass Tee fitting and male connection.

Code	Size	Insulation	Color	Class	Packaging
520315	1" M x 1" M	-		TI	1 / 6
520311	1"1/4 M x 1"1/4 M	-		TI	1 / 6
520315I	1" M x 1" M	✓		TI	1
520311I	1"1/4 M x 1"1/4 M	✓		TI	1

AC 655 G



Pair of female-female straight ball valves with swivelling nut for DIRTSTOP® XL BM (codes 520315 and 520315I).

Code	Size	Class	Packaging
520194	1" F swivel x Ø22 copper pipe	TI	1 / 24
520195	1" F swivel x 3/4" F	TI	1 / 24
520196	1" F swivel x 1" F	TI	1 / 24
520197	1" F swivel x 1"1/4 F	TI	1 / 24

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DIRTSTOP® XL PMK



Swiveling magnetic dirt separator with triple filtering action complete with wrench for ring nut installation/removal, plastic Tee fitting, male connection and pair of female-female straight ball valves with swivelling nut.

Code	Size	Color	Class	Packaging
520553	1" F x 1" F		TI	1 / 6
520554	1"1/4 F x 1"1/4 F		TI	1 / 6

DIRTSTOP® XL BMK



Swiveling magnetic dirt separator with triple filtering action complete with wrench for ring nut installation/removal, brass Tee fitting, male connection and pair of female-female straight ball valves with swivelling nut.

Code	Size	Color	Class	Packaging
520312	3/4" F x 3/4" F		TI	1 / 6
520313	1" F x 1" F		TI	1 / 6
520314	1"1/4 F x 1"1/4 F		TI	1 / 6

CI DIRTSTOP® XL P



Insulating cover for DIRTSTOP® XL with plastic Tee fitting with isolation valves.

Code	Model	Class	Packaging
520320	DIRTSTOP® XL PF; DIRTSTOP® XL PM	TI	1

CI DIRTSTOP® XL B



Insulating cover for DIRTSTOP® XL with brass or plastic Tee fitting without isolation valves.

Code	Model	Class	Packaging
520321	DIRTSTOP® XL BF; DIRTSTOP® XL BM; DIRTSTOP® XL BMK; DIRTSTOP® XL PMK	TI	1



IV 400 >> p. 325



IV 100 HT >> p. 325



IV 100 LT >>p. 325

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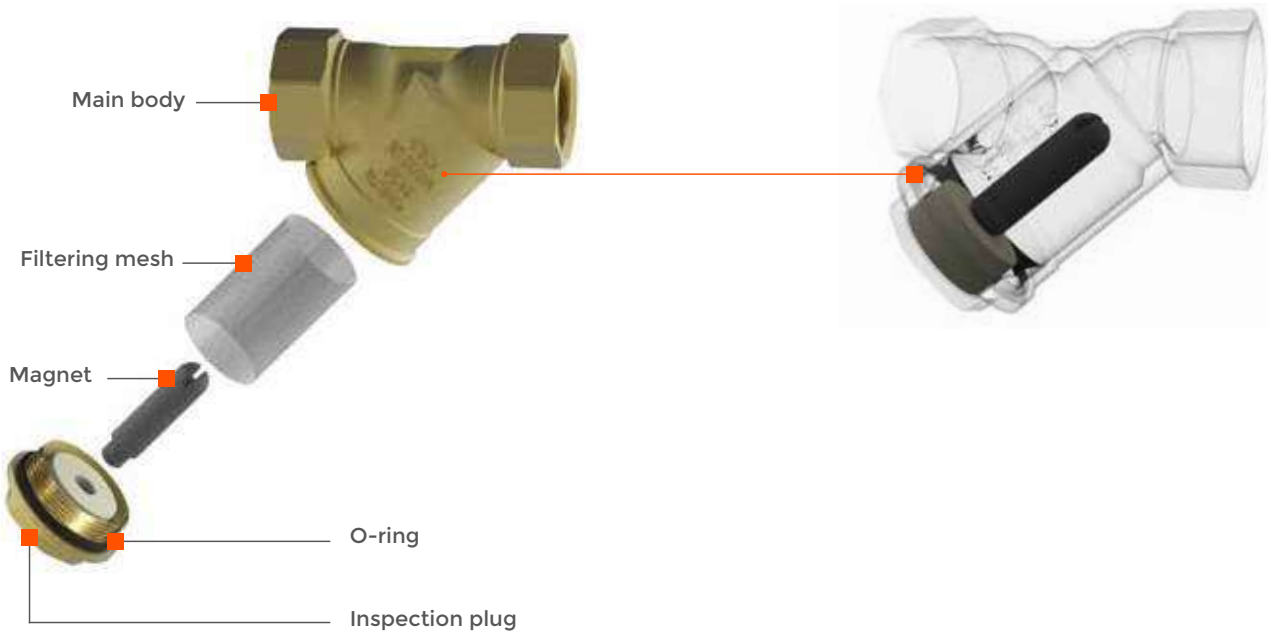
Y-TYPE MAGNETIC FILTERS

The water in closed-circuit heating systems can contain impurities of various origins. For example, impurities already present in the water when charging the system, or else due to the system installation or maintenance phases, such as machining residues, as well as those generated in the system during use, such as in the case of corrosion leading to ferrous impurities.
In order to intercept the last type of impurities, we have added a new version with magnet to our range of Y strainers; this is composed of a brass body with inspection cap, onto which a powerful 14,200 gauss neodymium magnet is screwed. The particular tapered shape of the magnet guarantees reduced pressure losses and therefore high flow rates, practically identical to the versions without magnet. As it is screwed on, the magnet can be easily removed for cleaning or replacement.

Removing the inspection cap provides access to the area which also contains an AISI 304 stainless-steel mesh strainer, with 500 µm filter capacity. The filter is removable for scheduled cleaning of the component.

Materials
Body: CW617N brass
Inspection cap: CW617N brass
Rubber parts: NBR
Filtering mesh: AISI 304 stainless steel
Magnet: neodymium REN 52

Technical specifications
Temperature range: -20 ÷ + 110 °C in absence of steam
Max operating pressure: 20 bar
Filtration capacity: 500 µm
Magnet power: 1.42 T = 14200 Gauss.



FI 10 M



Y-filter complete with filter cartridge, magnet and inspection plug.

Code	Size	Operating temp.	Filtration capacity	Class	Packaging
509036M	1/2" F x 1/2" F	-20 °C / 110 °C	500 µm	TI	25 / 100
509037M	3/4" F x 3/4" F	-20 °C / 110 °C	500 µm	TI	12 / 48
509038M	1" F x 1" F	-20 °C / 110 °C	500 µm	TI	8 / 32
509039M	1"1/4 F x 1"1/4 F	-20 °C / 110 °C	500 µm	TI	2 / 8
509040M	1"1/2 F x 1"1/2 F	-20 °C / 110 °C	500 µm	TI	2 / 8
509041M	2" F x 2" F	-20 °C / 110 °C	500 µm	TI	1 / 4

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ADDITIVES

IV 400



Sanitizing additive.

Code	Size	Class	Packaging
IV400	1 l	TI	1 l

IV 100 HT



Anti-scaling inhibitor additive for high temperature systems.

Code	Size	Class	Packaging
IV100HT	1 l	TI	1 l

IV 100 LT



Anti-scaling inhibitor additive for low temperature systems.

Code	Size	Class	Packaging
IV100LT	1 l	TI	1 l

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POLIFEMO®

The proportional polyphosphates dispenser is installed on the lines supplying cold water to the boiler (and other appliances such as washing machines and dishwashers) to reduce the presence of limescale. The polyphosphates released by the dispenser bind to the calcium and magnesium salts and reduce their precipitation, which causes limescale, creating a protective film in the pipework which helps prevent corrosion.

Polifemo® is now even more practical and functional. Its new, more compact design, combined with a new dosing system, ensures easy maintenance and a much greater available flow rate!

The Venturi-effect dosing of the polyphosphates is proportional to the quantity of water flowing through the device. The integrated filter strainer with 500 µm AISI 304 stainless-steel filter mesh protects the system from impurities, while the bleed valve on the nut facilitates bleeding off any pressure in the body, thus simplifying refilling of the device. Finally, all versions of **Polifemo®** are now equipped with the bypass function which allows the polyphosphate crystals to be refilled without interrupting normal operation of the device.

The range is enhanced with further versions, and is now composed of: Polifemo® with ½" connections, Polifemo® Extra with ½" connections and extra large body for even longer-lasting refills, and Polifemo® 1" for high flow-rate systems.

Materials:
Socket: Grilamid® TR
Body and ring nut: Ottone CW 617 N brass, chrome-plated externally
Sealing gaskets: peroxide EPDM
Safety filter: stainless stee
Insulated casing: polypropylene flame retardant

CAUTION

Store polyphosphates in a cool, dry place. Exposure to temperatures above 45 °C (e.g. leaving them in a vehicle parked in the sun during summer) may cause the polyphosphates to melt abnormally and change their consistency during operation of Polifemo, impairing its functionality.

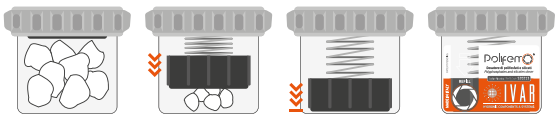
In all installations where Polifemo is exposed to uv rays, it is Mandatory to protect it with the insulating cover (code 520214 – 520215 – 520216)

3 in 1
Protects from **limestone**
Protects from **corrosion**
Filters the impurities

+ PLUS

- Proportional release of polyphosphates and silicates in compliance with the UNI 8065: 2019 standard, guaranteed in any installation position.
- High flow rate and low pressure loss thanks to the new dosing principle with venturi effect and to the two versions 1/2" and 1" (172 l/min).
- Super compact, it fits into any system.
- Horizontal or vertical installation with accurate display of the charge level in all positions.
- Insulating cover for outdoor installations.
- Easy refill thanks to the air vent, which makes disassembly of the ring nut more simple.
- Average recharge duration for standard version: 6 months.
- Robustness and reliability: brass cap that ensures maximum resistance to water hammer.
- New version with extralarge glass with more crystals (for versions Extra and 1") in order to recharge Polifemo® only once a year.
- Level indicator with transparent glass in Grilamid® for easy inspection.

FOCUS: Mind the Polifemo®'s eye
Refill with new crystals when it becomes BLACK.



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POLIFEMO® - POLYPHOSPHATES AND SILICATES DOSER WITH INTEGRATED BYPASS SYSTEM



STANDARD
Super-compact version
POLIFEMO® 1/2" F - code 520210



EXTRA
Long lasting
POLIFEMO® EXTRA 1/2" F - code 520211



1"
For high flow rates (172l/min)
POLIFEMO® 1" F - code 520212

Protects from limestone and corrosion of aggressive water:



Boilers



Heat pumps



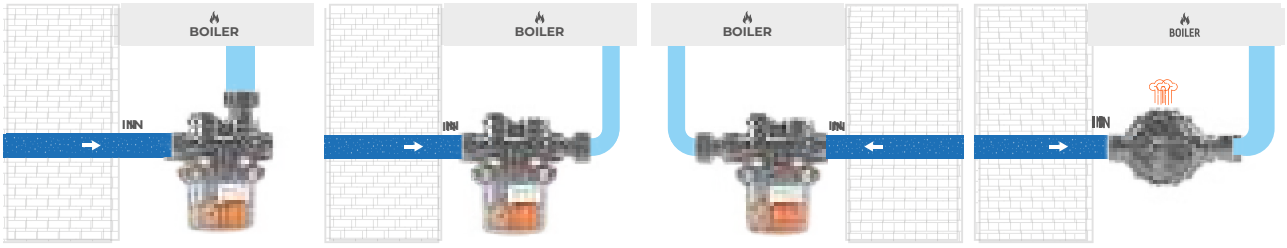
Water heaters



Washing machines



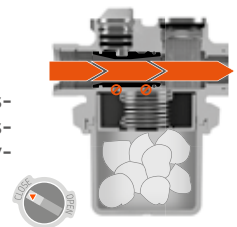
Dishwashers



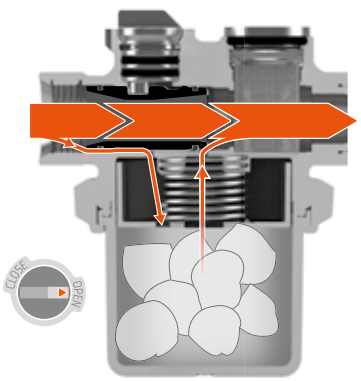
Integrated filter
Integrated filter with 500 µm filtering mesh in compliance with UNI 8065 standard relating to water treatment.



Bypass
Polifemo® allows to recharge the polyphosphates and silicates crystals when the system is working, thanks to the patented bypass system.



PROPORTIONAL DOSAGE
Venturi effect



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POLIFEMO® - POLYPHOSPHATES AND SILICATES DOSER WITH INTEGRATED BYPASS SYSTEM

POLIFEMO®



Proportional doser of polyphosphate and silicates in crystals complete with strainer, integrated bypass system and connection kit.

Code	Size	Class	Packaging
520210	1/2" - Refill 80 g	TI	1 / 12

POLIFEMO® EXTRA



Proportional doser of polyphosphate and silicates in crystals complete with strainer, integrated bypass system and connection kit.

Code	Size	Class	Packaging
520211	1/2" - Refill 160 g	TI	1 / 12

POLIFEMO® 1"



Proportional doser of polyphosphate and silicates in crystals complete with strainer, integrated bypass system and connection kit.

Code	Size	Class	Packaging
520212	1" - Refill 160 g	TI	1 / 12

APF 03



Polyphosphate and silicates in crystals for refilling POLIFEMO® series dosers with spare strainer.

Code	Size	Model	Class	Packaging
520213	80 g	POLIFEMO® / POLIFEMO® EASY (order 1 pack) POLIFEMO® EXTRA (order 2 packs)	TI	8 / 32
520218	160 g	POLIFEMO® 1"	TI	5 / 20

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CI POLIFEMO®



Insulating cover for POLIFEMO®.

Code	Model	Class	Packaging
520214	POLIFEMO®	TI	1 / 4

CI POLIFEMO® EXTRA



Insulating cover for POLIFEMO® EXTRA.

Code	Model	Class	Packaging
520215	POLIFEMO® EXTRA	TI	1 / 4

CI POLIFEMO® 1”



Insulating cover for POLIFEMO® 1”.

Code	Model	Class	Packaging
520216	POLIFEMO® 1”	TI	1 / 3

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POLIFEMO® EASY

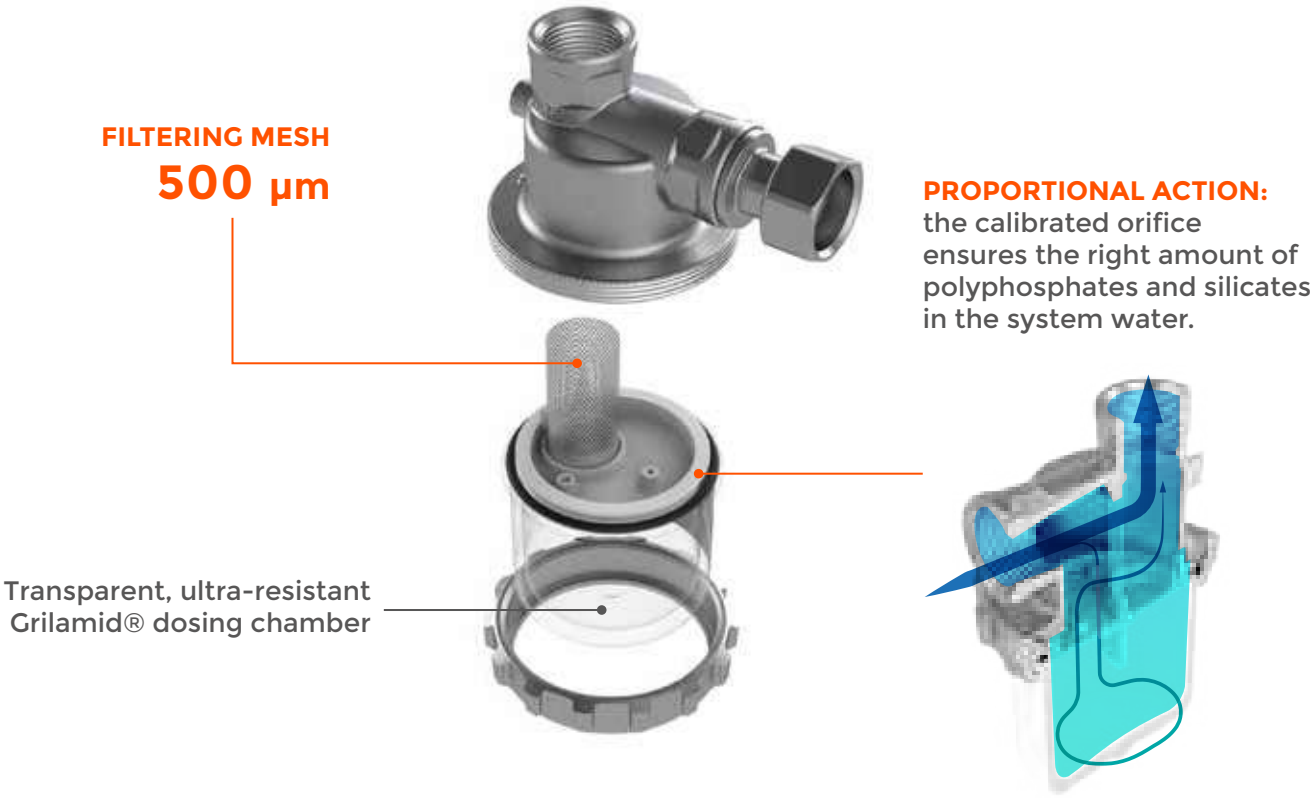
The **POLIFEMO® EASY** polyphosphate and silicate dispenser is a device without moving parts that releases a saturated solution of polyphosphates and food-grade silicates into the cold domestic water.

The dosing of substances is proportional to the flow of water passing through the device and is done via the suction line that draws the correct amount of saturated solution from the beaker.

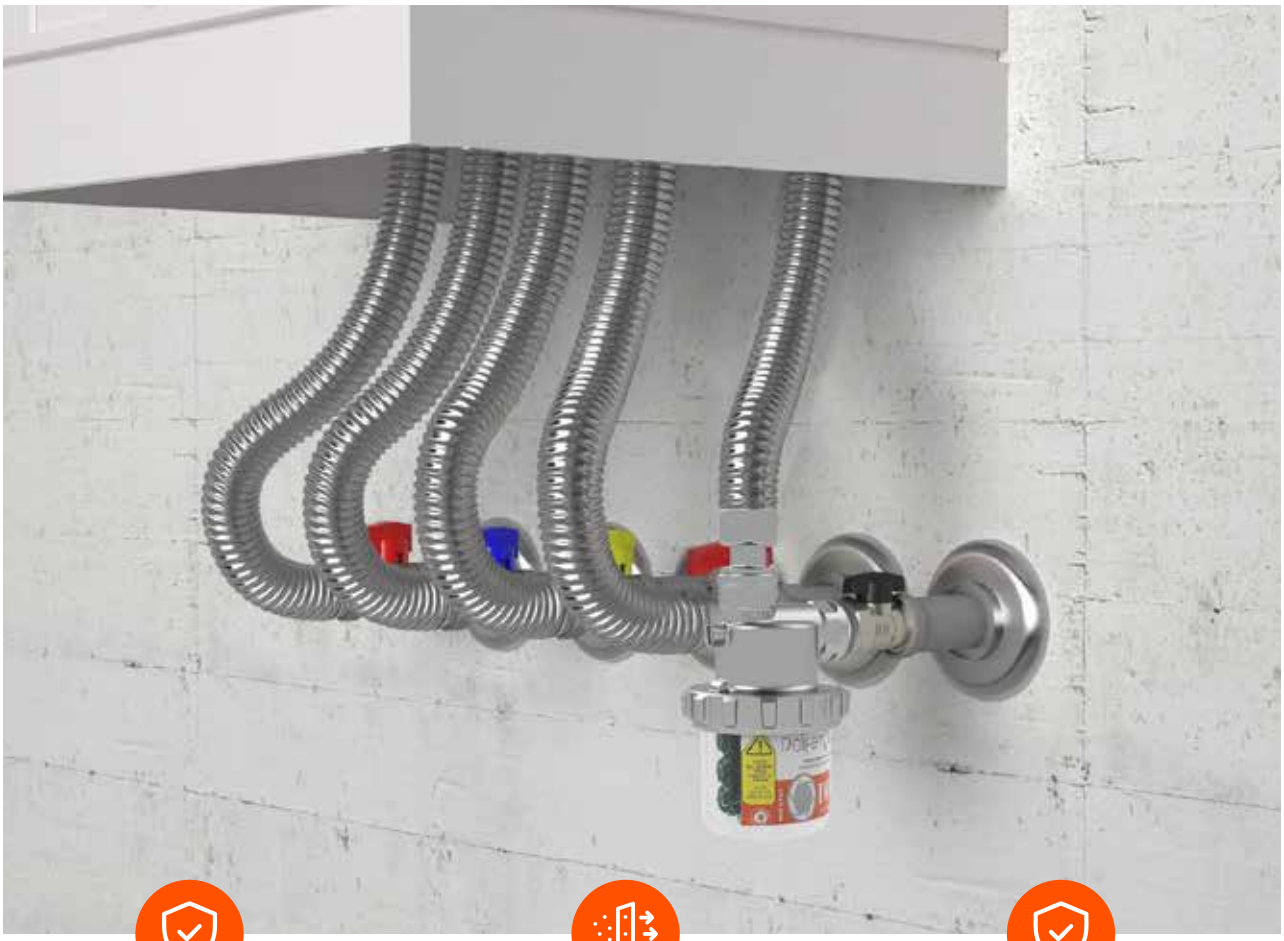
The dosing principle is based on the pressure differences created in the device when a certain flow of water passes through it.

PLUS

- Limescale protection: dispensing of polyphosphates prevents the precipitation of magnesium and calcium carbonates.
- Filtration: 500 µm stainless-steel mesh filter.
- Proportional action: the calibrated orifice ensures the correct quantity of polyphosphates and silicates in the system water.
- Facilitated inspection: consumption of polyphosphates can be measured via the transparent socket.
- Robustness and reliability: chrome-plated brass nut and ring nut, socket in Grilamid ®.
- Simplified installation.



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PROTECTS from LIMESTONE

FILTERS IMPURITIES

PROTECTS from CORROSION

POLIFEMO® EASY



Proportional doser of polyphosphate and silicates in crystals complete with strainer and connection kit.

Code	Size	Class	Packaging
520220	1/2" - Refill 80 g	TI	1 / 12

APF 03



Polyphosphate and silicates in crystals for refilling POLIFEMO® series dosers with spare strainer.

Code	Size	Model	Class	Packaging
520213	80 g	POLIFEMO® / POLIFEMO® EASY (order 1 pack) POLIFEMO® EXTRA (order 2 packs)	TI	8 / 32

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BRIX

BRIX is an acidic condensate neutraliser to be installed downline of the condensate outlet of condensing boilers. Condensing boilers, of course, are able to recover latent heat in the boiler fumes by condensing the water vapour before it reaches the flue.

The resulting condensate has a very low pH (acidic), however, as some of the carbon dioxide in the flue gases dissolves to form carbonic acid, which is thus potentially corrosive to domestic drainage systems. With the use of **BRIX**, the acidic condensate from the boiler passes through granules of calcium carbonate ($CaCO_3$), which neutralise it. The pH of the condensate is thus raised (pH > 6), allowing it to be safely taken into the drainage system.

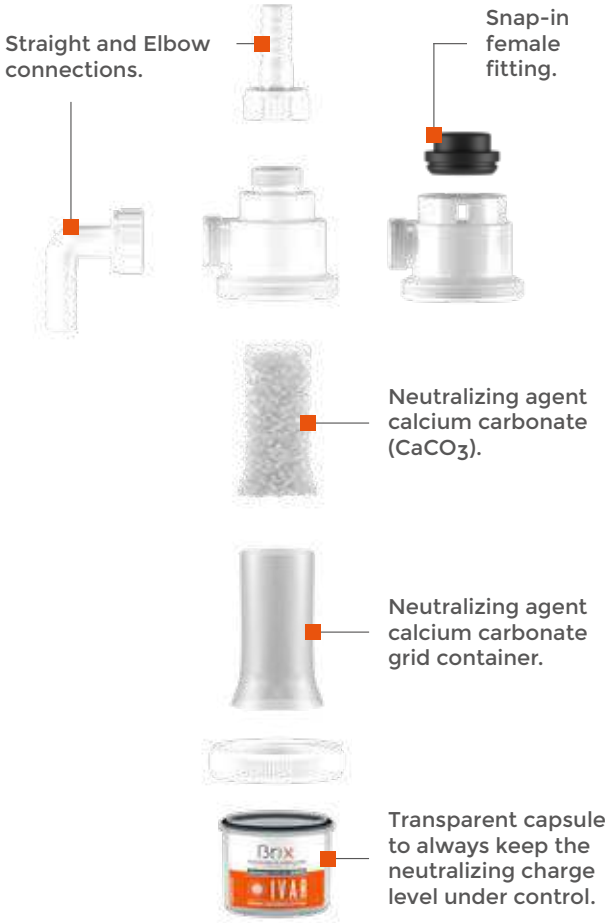
The **BRIX** range now includes the new version with female fitting, available in 16 mm and 20 mm diameter, making connection to the boiler even more versatile. The versions with male fitting, once again in 16 mm and 20 mm sizes, remain available.

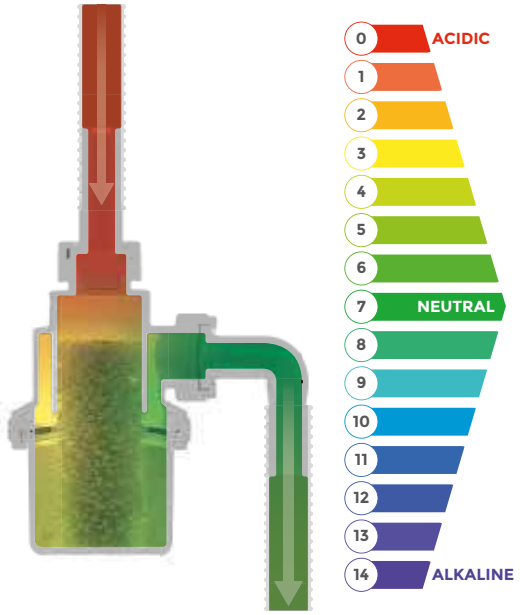
+ PLUS

- 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.
- Snap-in female connection, for a simple and quick installation of the drain pipe.
- Extremely compact to easily find a place under the boiler.
- Transparent body to always keep the neutralizing charge level under control.



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BRIX M



Acid condensate neutralizer with male connection, connection kit and two packs of calcium carbonate.

Code	Size	Class	Packaging
520350	Ø16 M x Ø16 M	TI	1 / 6
520351	Ø20 M x Ø20 M	TI	1 / 6

BRIX F



Acid condensate neutralizer with female connection, connection kit and two packs of calcium carbonate.

Code	Size	Class	Packaging
520352	Ø16 M x Ø25 F	TI	1 / 6
520353	Ø20 M x Ø25 F	TI	1 / 6

ABX 01



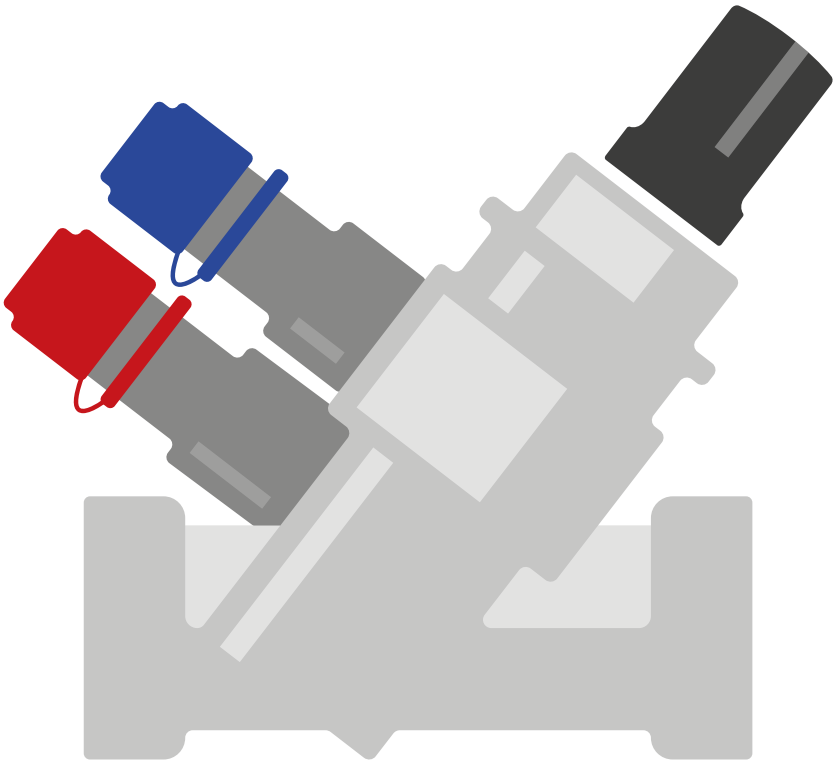
Kit with 6 packs of calcium carbonate for acid condensate neutralizer.

Code	Size	Class	Packaging
520203	6 x 130 g	TI	1 / 4

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HYDRAULIC BALANCING



INDEX



Static balancing valves 338



PICV dynamic balancing valves 340



EQUIFLUID - Balancing valves for differential pressure adjustment 347



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, Δp, 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 Δp. Therefore, these are particularly suitable for performing line operations (measurement, adjustment) accurately.

On the other hand, the **VB 10** requires a measurement of Δp and a Kv graph for each adjustment position, which is less immediate, but which provides a good measurement of Δp even with very low flow rates.

VB 00



Static balancing valve with a fixed bore.
* The KVs value indicates the KV of the Venturi and not that of the entire panel.

Code	Potable water compatibility	Size	Class	Packaging
509067	✓	1/2" F x 1/2" F - 2,80 KVs*	TE	1 / 8
509068	✓	3/4" F x 3/4" F - 5,33 KVs*	TE	1 / 8
509069	✓	1" F x 1" F - 9,72 KVs*	TE	1 / 8
509070	✓	1"1/4 F x 1"1/4 F- 20,25 KVs*	TE	1 / 8
509071	✓	1"1/2 F x 1"1/2 F - 30,23 KVs*	TE	1 / 8
509072	✓	2" F x 2" F - 55,07 KVs*	TE	1 / 8

VB 10



Static balancing valve with a variable bore.

Code	Potable water compatibility	Size	Class	Packaging
509135	✓	1/2" F x 1/2" F - 2,67 KV max	TE	2 / 8
509136	✓	3/4" F x 3/4" F - 4,10 KV max	TE	2 / 8
509137	✓	1" F x 1" F - 6,40 KV max	TE	1 / 4
509138	✓	1"1/4 F x 1"1/4 F - 12,00 KV max	TE	1 / 4
509139	✓	1"1/2 F x 1"1/2 F - 19,50 KV max	TE	1 / 4
509140	✓	2" F x 2" F - 29,80 KV max	TE	1 / 4

VB 20



Static balancing valves for high flow capacity.

Code	Potable water compatibility	Size	Class	Packaging
509170	✓	DN 50	TH	1
509171	✓	DN 65	TH	1
509172	✓	DN 80	TH	1
509173	✓	DN 100	TH	1
509174	✓	DN 125	TH	1
509175	✓	DN 150	TH	1
509176	✓	DN 200	TH	1
509177	✓	DN 250	TH	1
509178	✓	DN 300	TH	1

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AVB 00



Piezometric socket with discharge.

Code	Size	Class	Packaging
509087	1/4" M	TE	1

AVB 10



Piezometric socket.

Code	Size	Color	Class	Packaging
509088B	1/4" M		TE	100
509088R	1/4" M		TE	100

AVB 20



Electronic capacity and differential pressure measurement kit.

Code	Included Accessories	Class	Packaging
509089		TE	1
509133	Database included (to be used with an App)	TE	1

TM 00



Stainless steel riser fitted between flanges for indirect readout of capacity.

Code	Kv	Size	Class	Packaging
509078	88.20	2"1/2	TE	1
509079	123	3"	TE	1
509080	215.60	4"	TE	1

TM 10



Riser for indirect readout of capacity.

Code	Kv	Size	Color	Class	Packaging
509081	2.80	1/2" M x 1/2" F	/	TE	1
509082	5.33	3/4" M x 3/4" F	/	TE	1
509083	9.72	1" M x 1" F	/	TE	1
509084	20.25	1"1/4 M x 1"1/4 F	/	TE	1
509085	30.23	1"1/2 M x 1"1/2 F	/	TE	1
509086	55.07	2" M x 2" F	/	TE	1

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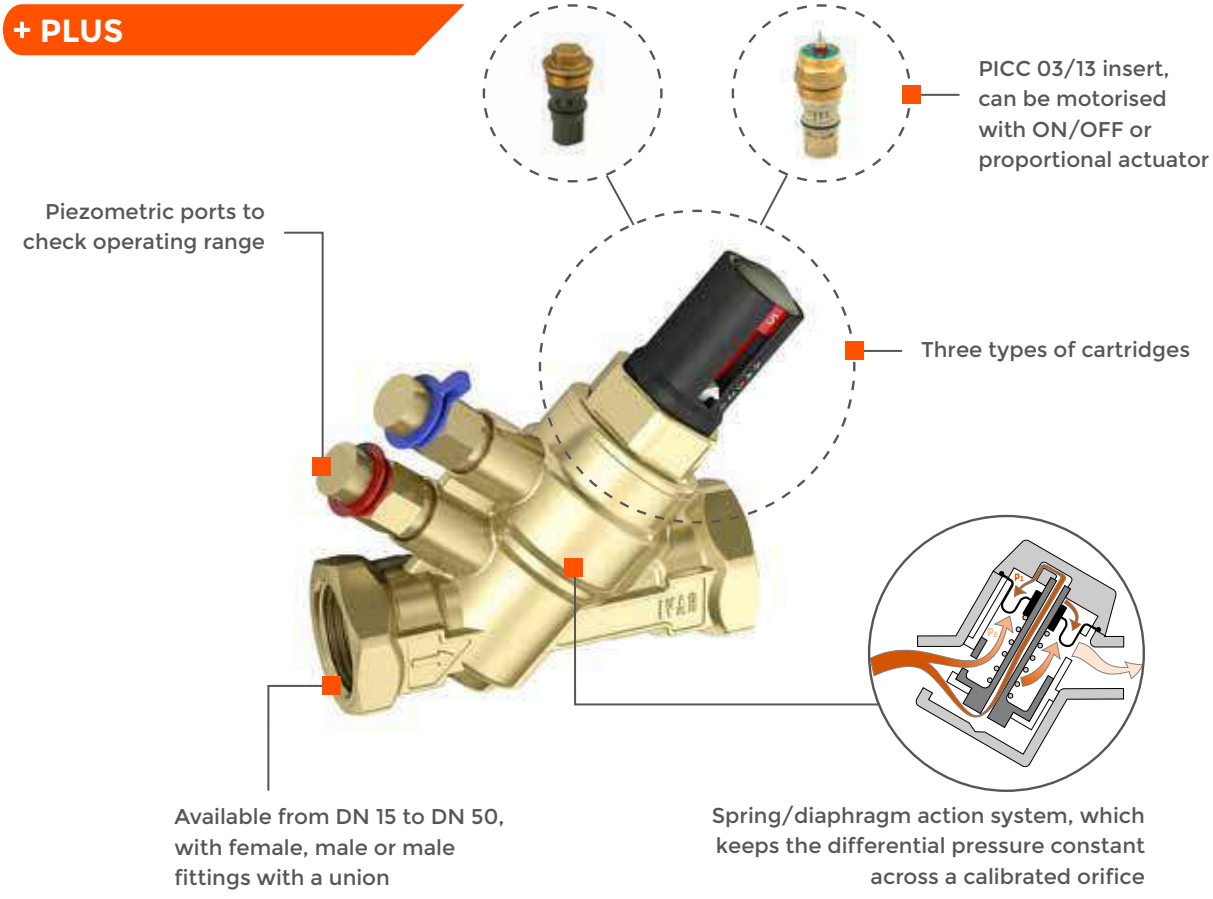
PICV

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 0-10V 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



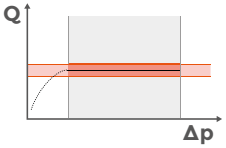
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The most suitable regulating cartridge can be chosen for each valve:

PICC 01 PICC 11







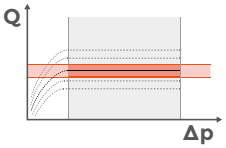
Automatically stabilises the flow rate at the value set

Δp: 20-130/40-400/15-130/22-300/30-410 kPa

PICC 02 PICC 12 PICC 22







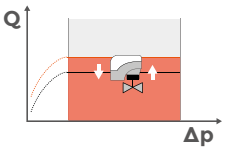
Automatically stabilises the flow rate at the value set, adjustable even when the system is running

Δp: 17-210/17-200/30-400/35-400/17-400/20-400 kPa

PICC 03 PICC 13







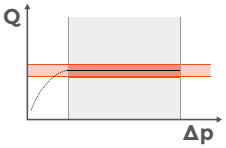
Stabilises the flow rate at the value determined by an external control. Even in modulation, its authority is always 100%

Δp: 16-200/30-400/16-400 kPa

PICC 20



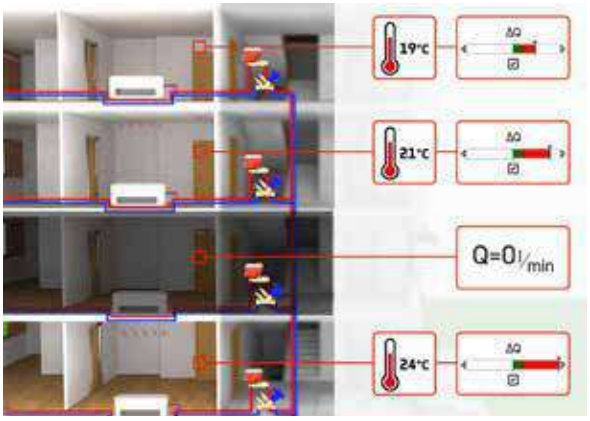




Available in sizes DN 65/80, it automatically stabilises the flow rate at the value set

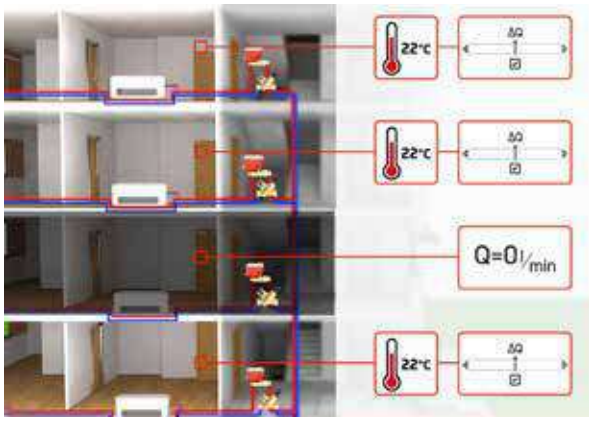
Δp: 10-135/28-135/22-210/55-210/40-390/90-880 kPa

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.

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PICV DYNAMIC BALANCING VALVES

PICV 00



Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Female - female connections.

Code	Size	Color	Class	Packaging
590065	1/2" F x 1/2" F		TE	5 / 40
590066	3/4" F x 3/4" F		TE	5 / 40
590141	1" F x 1" F		TE	4 / 16

PICV 05



Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male connections.

Code	Size	Color	Class	Packaging
590099	EUROK x EUROK		TE	5 / 40
590069	3/4" M x 3/4" M		TE	5 / 40
590144	1" M x 1" M		TE	5 / 20
590145	1"1/4 M x 1"1/4 M		TE	2 / 8

PICV 10



Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male with fitting connections.

Code	Size	Color	Class	Packaging
590073	1/2" M x 1/2" M		TE	5 / 40
590148	3/4" M x 3/4" M		TE	2 / 16
590149	1" M x 1" M		TE	2 / 16



Piezometric sockets >>p. 339,344

PICC 01



Cartridge for stabilising the flow rate. Up to 8 flow rate values. Suitable for PICV 00/05/10.

Code	Size	Color	Class	Packaging
590100	20-130 kPa; 29-155 l/h		TE	1
590101	20-130 kPa; 207-430 l/h		TE	1
590102	20-130 kPa; 223-526 l/h		TE	1
590103	20-130 kPa; 162-695 l/h		TE	1
590104	20-130 kPa; 352-984 l/h		TE	1
590105	40-400 kPa; 42-250 l/h		TE	1
590106	40-400 kPa; 281-653 l/h		TE	1
590107	40-400 kPa; 203-792 l/h		TE	1
590108	40-400 kPa; 215-998 l/h		TE	1
590109	40-400 kPa; 493-1470 l/h		TE	1

PICC 02



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.

Code	Size	Color	Class	Packaging
590116	17-210 kPa; 100-412 l/h		TE	10 / 40
590117	17-210 kPa; 157-609 l/h		TE	10
590118	17-200 kPa; 276-825 l/h		TE	1
590119	30-400 kPa; 406-1270 l/h		TE	10 / 40
590120	35-400 kPa; 138-615 l/h		TE	10 / 80
590121	35-400 kPa; 238-896 l/h		TE	10 / 40

PICC 03



Cartridge for limiting and modulating the flow rate independently of the pressure. 41 settable flow rate values. Suitable for PICV 00/05/10.

Code	Size	Color	Class	Packaging
590123	16-600 kPa; 37-575 l/h		TE	10 / 40
590124	30-800 kPa; 64-1110 l/h		TE	10 / 80
590127	35-800 kPa; 620-2650 l/h		TE	15 / 60



TE 3003 >> p. 343



RV 03 >>p. 343

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PICV 100



Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Female - female connections.

Code	Size	Color	Class	Packaging
590067	1" F x 1" F		TE	2 / 8
590068	1"1/4 F x 1"1/4 F		TE	2 / 16

PICV 105



Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male connections.

Code	Size	Color	Class	Packaging
590070	1" M x 1" M		TE	2 / 8
590071	1"1/4 M x 1"1/4 M		TE	2 / 8
590072	1"1/2 M x 1"1/2 M		TE	2 / 8

PICV 110



Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male with fitting connections.

Code	Size	Color	Class	Packaging
590074	3/4" M x 3/4" M		TE	2 / 16
590075	1" M x 1" M		TE	2 / 16
590076	1"1/4 M x 1"1/4 M		TE	2 / 16



Piezometric sockets >>p. 339,344

TE 3003

Electrothermal actuator for PICC 03 cartridge (ON / OFF or proportional control).

Code	Size	Class	Packaging
501388	M30 x 1,5 ; ON / OFF (230 V AC)	TE	1 / 64
501389	M30 x 1,5 ; ON / OFF (24 V AC)	TE	1 / 70
501387	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	TE	1

PICC 11



Cartridge for stabilising the flow rate. Up to 8 flow rate values. Suitable for PICV 100/105/110.

Code	Size	Color	Class	Packaging
590110	15-130 kPa; 612-2380 l/h		TE	1
590111	15-130 kPa; 936-3060 l/h		TE	1
590112	22-300 kPa; 828-3020 l/h		TE	1
590113	22-300 kPa; 1370-4360 l/h		TE	1
590114	30-410 kPa; 972-3560 l/h		TE	5
590115	30-410 kPa; 1580-5150 l/h		TE	1

PICC 12



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.

Code	Size	Color	Class	Packaging
590122	17-400 kPa; 535-5830 l/h		TE	2 / 8

PICC 13



Cartridge for limiting and modulating the flow rate independently of the pressure. 41 settable flow rate values. Suitable for PICV 100/105/110.

Code	Size	Color	Class	Packaging
590125	16-800 kPa; 865-4630 l/h		TE	1



RV 03 >>p. 343

RV 03



Axial motor for PICC 03 / PICC 13 cartridge (ON / OFF or proportional control).

Code	Size	Class	Packaging
501385	M30 x 1,5 ; 2-point/3-point regulation (230 V AC)	TE	1
501386	M30 x 1,5 ; 2-point/3-point regulation (24 V AC)	TE	1
501384	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	TE	1

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PICV DYNAMIC BALANCING VALVES

PICV 200



Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Female - female connections.

Code	Size	Color	Class	Packaging
590142	1"1/2 F x 1"1/2 F		TE	2
590143	2" F x 2" F		TE	2

PICV 205



Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male connections.

Code	Size	Color	Class	Packaging
590146	2" M x 2" M		TE	2
590147	2"1/2 M x 2"1/2 M		TE	2

PICV 210



Dynamic balancing valve body, complete with plug and arrangement for piezometric inlets. Male - male with fitting connections.

Code	Size	Color	Class	Packaging
590150	1"1/2 M x 1"1/2 M		TE	1
590151	2" M x 2" M		TE	1

PICC 22



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.

Code	Size	Color	Class	Packaging
590126	20-400 kPa; 3178-16128 l/h		TE	1

AVB 10



Piezometric socket.

Code	Size	Color	Class	Packaging
509088B	1/4" M		TE	100
509088R	1/4" M		TE	100

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PICV 300



Dynamic balancing valve body, complete with piezometric inlets and arrangement for insert. Female - female connections.

Code	Size	Color	Class	Packaging
590200	DN 65 - 2"1/2 F x 2"1/2 F		TH	1
590201	DN 80 - 3" F x 3" F		TH	1

PICC 20

Insert for PICV 300.



Code	Size	Class
590202	10-135 kPa; 3,18 m³/h	TH
590203	10-135 kPa; 3,63 m³/h	TH
590204	10-135 kPa; 4,09 m³/h	TH
590205	10-135 kPa; 4,54 m³/h	TH
590206	10-135 kPa; 5,00 m³/h	TH
590207	10-135 kPa; 5,45 m³/h	TH
590208	10-135 kPa; 5,91 m³/h	TH
590209	10-135 kPa; 6,36 m³/h	TH
590210	10-135 kPa; 6,81 m³/h	TH
590211	10-135 kPa; 7,27 m³/h	TH
590212	10-135 kPa; 7,72 m³/h	TH
590213	10-135 kPa; 8,18 m³/h	TH
590214	10-135 kPa; 8,63 m³/h	TH
590215	10-135 kPa; 9,08 m³/h	TH
590216	10-135 kPa; 9,54 m³/h	TH
590217	10-135 kPa; 9,99 m³/h	TH
590218	10-135 kPa; 10,40 m³/h	TH
590219	10-135 kPa; 10,90 m³/h	TH
590220	10-135 kPa; 11,40 m³/h	TH
590221	10-135 kPa; 11,80 m³/h	TH
590222	10-135 kPa; 12,30 m³/h	TH
590223	10-135 kPa; 12,70 m³/h	TH
590224	10-135 kPa; 13,20 m³/h	TH
590225	10-135 kPa; 13,60 m³/h	TH
590226	28-135 kPa; 20,40 m³/h	TH
590227	28-135 kPa; 25,00 m³/h	TH
590228	28-135 kPa; 29,50 m³/h	TH
590229	22-210 kPa; 3,97 m³/h	TH
590230	22-210 kPa; 4,54 m³/h	TH
590231	22-210 kPa; 5,11 m³/h	TH
590232	22-210 kPa; 5,68 m³/h	TH
590233	22-210 kPa; 6,25 m³/h	TH
590234	22-210 kPa; 6,81 m³/h	TH
590235	22-210 kPa; 7,38 m³/h	TH

PICC 20

Insert for PICV 300.



Code	Size	Class
590236	22-210 kPa; 7,95 m³/h	TH
590237	22-210 kPa; 8,52 m³/h	TH
590238	22-210 kPa; 9,08 m³/h	TH
590239	22-210 kPa; 9,65 m³/h	TH
590240	22-210 kPa; 10,20 m³/h	TH
590241	22-210 kPa; 10,80 m³/h	TH
590242	22-210 kPa; 11,40 m³/h	TH
590243	22-210 kPa; 11,90 m³/h	TH
590244	22-210 kPa; 12,50 m³/h	TH
590245	22-210 kPa; 13,10 m³/h	TH
590246	22-210 kPa; 13,60 m³/h	TH
590247	22-210 kPa; 14,20 m³/h	TH
590248	22-210 kPa; 14,80 m³/h	TH
590249	22-210 kPa; 15,30 m³/h	TH
590250	22-210 kPa; 15,90 m³/h	TH
590251	22-210 kPa; 16,50 m³/h	TH
590252	22-210 kPa; 17,00 m³/h	TH
590253	55-210 kPa; 25,00 m³/h	TH
590254	55-210 kPa; 30,71 m³/h	TH
590255	55-210 kPa; 36,30 m³/h	TH
590256	40-390 kPa; 5,30 m³/h	TH
590257	40-390 kPa; 6,06 m³/h	TH
590258	40-390 kPa; 6,81 m³/h	TH
590259	40-390 kPa; 7,57 m³/h	TH
590260	40-390 kPa; 8,33 m³/h	TH
590261	40-390 kPa; 9,08 m³/h	TH
590262	40-390 kPa; 9,84 m³/h	TH
590263	40-390 kPa; 10,60 m³/h	TH
590264	40-390 kPa; 11,40 m³/h	TH
590265	40-390 kPa; 12,10 m³/h	TH
590266	40-390 kPa; 12,90 m³/h	TH
590267	40-390 kPa; 13,60 m³/h	TH
590268	40-390 kPa; 14,40 m³/h	TH
590269	40-390 kPa; 15,10 m³/h	TH

PICC 20

Insert for PICV 300.



Code	Size	Class
590270	40-390 kPa; 15,90 m³/h	TH
590271	40-390 kPa; 16,70 m³/h	TH
590272	40-390 kPa; 17,40 m³/h	TH
590273	40-390 kPa; 18,20 m³/h	TH
590274	40-390 kPa; 18,90 m³/h	TH
590275	40-390 kPa; 19,70 m³/h	TH
590276	40-390 kPa; 20,40 m³/h	TH
590277	40-390 kPa; 21,20 m³/h	TH
590278	40-390 kPa; 22,00 m³/h	TH
590279	40-390 kPa; 22,70 m³/h	TH
590280	90-880 kPa; 7,95 m³/h	TH
590281	90-880 kPa; 9,08 m³/h	TH
590282	90-880 kPa; 10,20 m³/h	TH
590283	90-880 kPa; 11,40 m³/h	TH
590284	90-880 kPa; 12,50 m³/h	TH
590285	90-880 kPa; 13,60 m³/h	TH
590286	90-880 kPa; 14,80 m³/h	TH
590287	90-880 kPa; 15,90 m³/h	TH
590288	90-880 kPa; 17,00 m³/h	TH
590289	90-880 kPa; 18,20 m³/h	TH
590290	90-880 kPa; 19,30 m³/h	TH
590291	90-880 kPa; 20,40 m³/h	TH
590292	90-880 kPa; 21,60 m³/h	TH
590293	90-880 kPa; 22,70 m³/h	TH
590294	90-880 kPa; 23,80 m³/h	TH
590295	90-880 kPa; 25,00 m³/h	TH
590296	90-880 kPa; 26,10 m³/h	TH
590297	90-880 kPa; 27,30 m³/h	TH
590298	90-880 kPa; 28,40 m³/h	TH
590299	90-880 kPa; 29,50 m³/h	TH
590300	90-880 kPa; 30,71 m³/h	TH
590301	90-880 kPa; 31,80 m³/h	TH
590302	90-880 kPa; 32,90 m³/h	TH
590303	90-880 kPa; 34,10 m³/h	TH

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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



Dynamic balancing valve for high flow capacity.

Code	Size	Range	Class	Packaging
550126	DN 65	30–400 kPa; 4,4–26 m3/h	TH	1
550127	DN 80	30–400 kPa; 4,7–36 m3/h	TH	1
550128	DN 100	30–400 kPa; 11,4–82,5 m3/h	TH	1
550129	DN 125	30–400 kPa; 13,1–125 m3/h	TH	1
550130	DN 150	30–400 kPa; 19–160 m3/h	TH	1

BRA 24A



Proportional motor for PICV-XL valves.

Code	Size	Class	Packaging
509145	10 N·m (DN 65-80)	TH	1
509146	20 N·m (DN 100-150)	TH	1

BRA 065



Manual steering wheel for PICV-XL valves.

Code	Size	Class	Packaging
509147	DN 65-150	TH	1

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EQUIFLUID

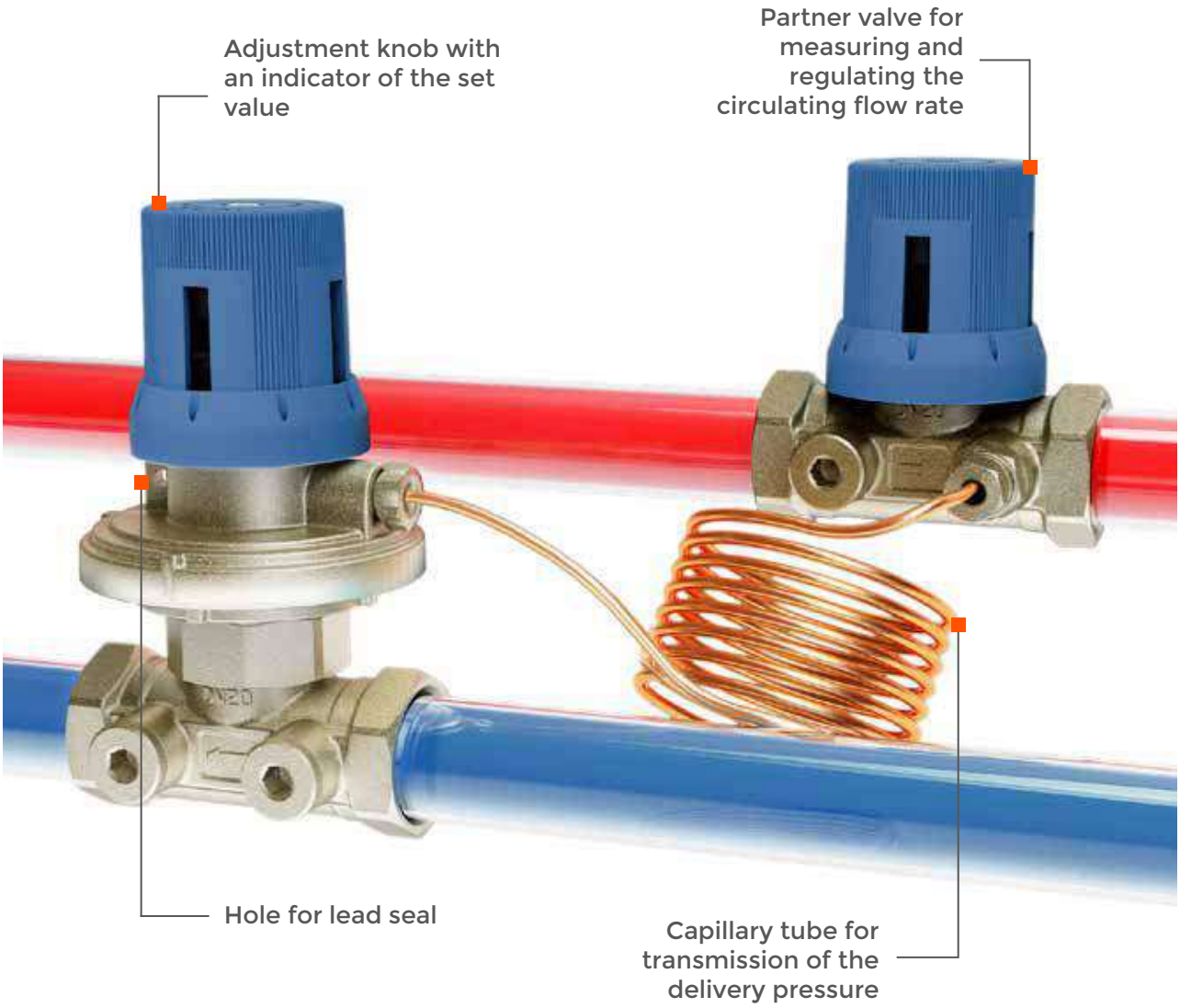
The differential pressure regulator is a dynamic balancing valve, which keeps the pressure difference at the ends of the circuit constant at the set value because it is able to react to pressure variations generated in the system, thanks to the combined action of a diaphragm and a spring. This regulation 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.

IVAR has developed a new set of EQUIFLUID valves with fixed calibration that are to be installed on the basis of the differential pressure to be maintained, which must be known in advance (unlike when using EQUIFLUID standard, which can be regulated within a certain range of differential pressures)

+ 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



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EQUIFLUID - BALANCING VALVES FOR DIFFERENTIAL PRESSURE ADJUSTMENT

EQF 01



Differential pressure control valve EQUIFLUID with/without thermal insulation and capillary pipe.

Code	Size	Range	Insulation	Class	Packaging
550113SI	DN 15 (F)	50 - 300 mbar	-	TE	1 / 8
550114SI	DN 15 (F)	250 - 600 mbar	-	TE	1 / 8
550115SI	DN 20 (F)	50 - 300 mbar	-	TE	1 / 8
550116SI	DN 20 (F)	250 - 600 mbar	-	TE	1 / 8
550100SI	DN 20 (M)	50 - 300 mbar	-	TE	1 / 8
550101SI	DN 20 (M)	250 - 600 mbar	-	TE	1 / 8
550117SI	DN 25 (F)	50 - 300 mbar	-	TE	1 / 8
550118SI	DN 25 (F)	250 - 600 mbar	-	TE	1 / 8
550160SI	DN 32 (F)	50 - 300 mbar	-	TE	2
550163SI	DN 32 (F)	250 - 600 mbar	-	TE	1 / 8
550161SI	DN 40 (F)	50 - 300 mbar	-	TE	1 / 8
550164SI	DN 40 (F)	250 - 600 mbar	-	TE	1 / 8
550162SI	DN 50 (F)	50 - 300 mbar	-	TE	1 / 8
550165SI	DN 50 (F)	250 - 600 mbar	-	TE	1 / 8
550113	DN 15 (F)	50 - 300 mbar	✓	TE	1 / 8
550114	DN 15 (F)	250 - 600 mbar	✓	TE	1 / 8
550115	DN 20 (F)	50 - 300 mbar	✓	TE	1 / 8
550116	DN 20 (F)	250 - 600 mbar	✓	TE	1 / 8
550100	DN 20 (M)	50 - 300 mbar	✓	TE	1 / 8
550101	DN 20 (M)	250 - 600 mbar	✓	TE	1 / 8
550117	DN 25 (F)	50 - 300 mbar	✓	TE	1 / 8
550118	DN 25 (F)	250 - 600 mbar	✓	TE	1 / 8

EQF 02



"Partner" valve for differential pressure control valve EQUIFLUID with/without thermal insulation.

Code	Size	Insulation	Class	Packaging
550110SI	DN 15 (F)	-	TE	1 / 8
550111SI	DN 20 (F)	-	TE	1 / 8
550109SI	DN 20 (M)	-	TE	1 / 8
550112SI	DN 25 (F)	-	TE	1 / 8
550166SI	DN 32 (F)	-	TE	1 / 8
550167SI	DN 40 (F)	-	TE	1 / 8
550168SI	DN 50 (F)	-	TE	1 / 8
550110	DN 15 (F)	✓	TE	1 / 8
550111	DN 20 (F)	✓	TE	1 / 8
550109	DN 20 (M)	✓	TE	1 / 8
550112	DN 25 (F)	✓	TE	1 / 8

EQF 03



"Partner" valve BASIC series for differential pressure control valve EQUIFLUID with/without thermal insulation.

Code	Size	Insulation	Class	Packaging
550104SI	DN 15 (F)	-	TE	1 / 8
550105SI	DN 20 (F)	-	TE	1 / 8
550103SI	DN 20 (M)	-	TE	1 / 8
550106SI	DN 25 (F)	-	TE	1 / 8
550104	DN 15 (F)	✓	TE	1 / 8
550105	DN 20 (F)	✓	TE	1 / 8
550103	DN 20 (M)	✓	TE	1 / 8
550106	DN 25 (F)	✓	TE	1 / 8

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EQF 05



Differential pressure control valve EQUIFLUID with fixed setting and capillary pipe, with/without thermal insulation.

Code	Size	Range	Insulation	Class	Packaging
550113150SI	DN 15 (F)	150 mbar	-	TE	1 / 8
550115150SI	DN 20 (F)	150 mbar	-	TE	1 / 8
550100150SI	DN 20 (M)	150 mbar	-	TE	1 / 8
550117150SI	DN 25 (F)	150 mbar	-	TE	1 / 8
550113300SI	DN 15 (F)	300 mbar	-	TE	1 / 8
550115300SI	DN 20 (F)	300 mbar	-	TE	1 / 8
550100300SI	DN 20 (M)	300 mbar	-	TE	1 / 8
550117300SI	DN 25 (F)	300 mbar	-	TE	1 / 8
550113450SI	DN 15 (F)	450 mbar	-	TE	1 / 8
550115450SI	DN 20 (F)	450 mbar	-	TE	1 / 8
550100450SI	DN 20 (M)	450 mbar	-	TE	1 / 8
550117450SI	DN 25 (F)	450 mbar	-	TE	1 / 8
550113600SI	DN 15 (F)	600 mbar	-	TE	1 / 8
550115600SI	DN 20 (F)	600 mbar	-	TE	1 / 8
550100600SI	DN 20 (M)	600 mbar	-	TE	1 / 8
550117600SI	DN 25 (F)	600 mbar	-	TE	1 / 8
550113150	DN 15 (F)	150 mbar	✓	TE	1 / 8
550115150	DN 20 (F)	150 mbar	✓	TE	1 / 8
550100150	DN 20 (M)	150 mbar	✓	TE	1 / 8
550117150	DN 25 (F)	150 mbar	✓	TE	1 / 8
550113300	DN 15 (F)	300 mbar	✓	TE	1 / 8
550115300	DN 20 (F)	300 mbar	✓	TE	1 / 8
550100300	DN 20 (M)	300 mbar	✓	TE	1 / 8
550117300	DN 25 (F)	300 mbar	✓	TE	1 / 8
550113450	DN 15 (F)	450 mbar	✓	TE	1 / 8
550115450	DN 20 (F)	450 mbar	✓	TE	1 / 8
550100450	DN 20 (M)	450 mbar	✓	TE	1 / 8
550117450	DN 25 (F)	450 mbar	✓	TE	1 / 8
550113600	DN 15 (F)	600 mbar	✓	TE	1 / 8
550115600	DN 20 (F)	600 mbar	✓	TE	1 / 8
550100600	DN 20 (M)	600 mbar	✓	TE	1 / 8
550117600	DN 25 (F)	600 mbar	✓	TE	1 / 8

AEQF 01



Capillary pipe for differential pressure control valve EQUIFLUID.

Code	Class	Packaging
550119	TE	1 / 32

AEQF 11



Thermal insulation for differential pressure control valve EQUIFLUID.

Code	Size	Class	Packaging
550150	1/2"	TE	1
550149	3/4"	TE	1
550151	1"	TE	1

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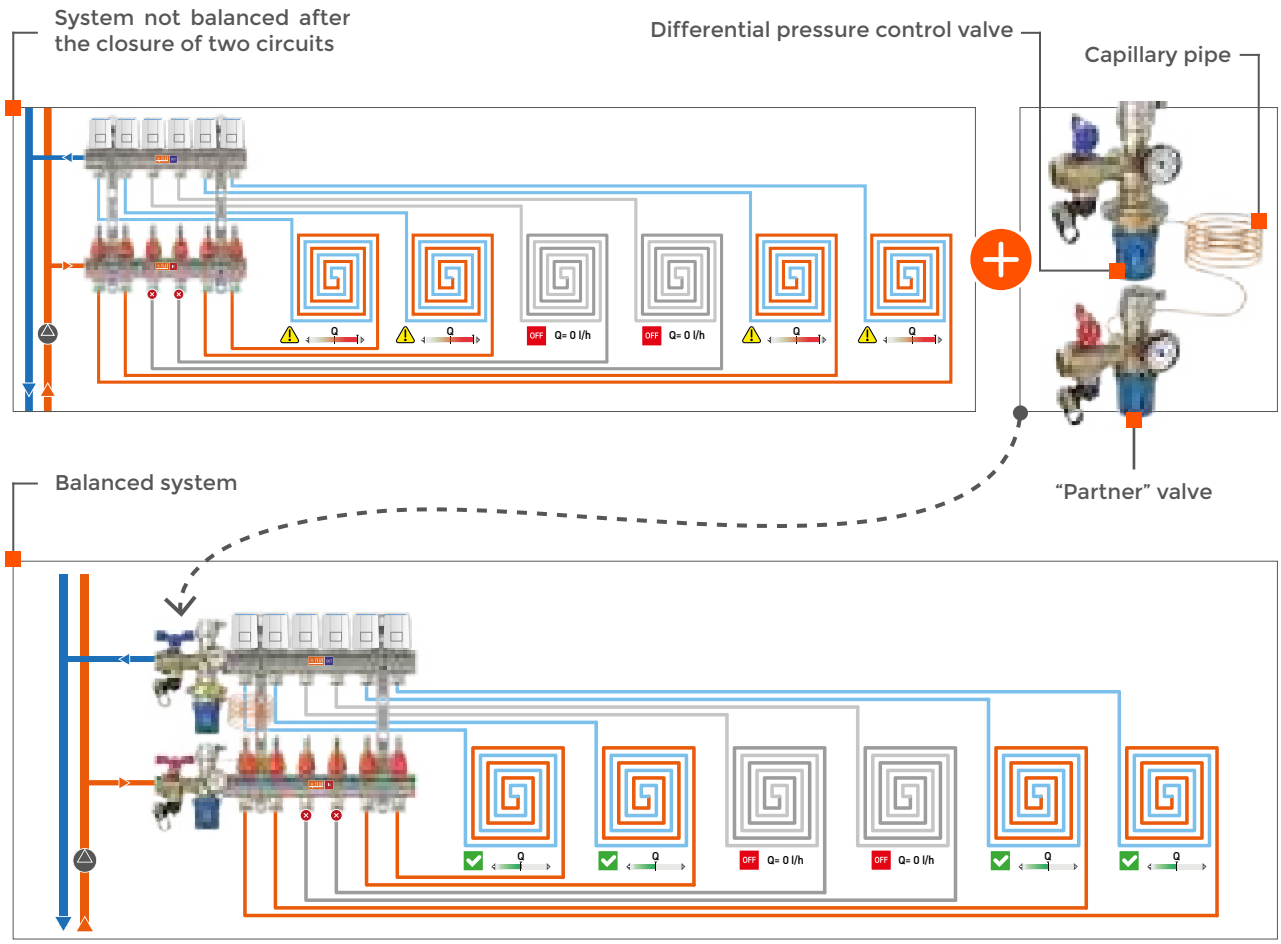
The new dynamic balancing unit for IVAR manifolds adds further balancing possibilities to our manifolds in a practical and compact manner. It is an IVAR EQUIFLUID valve (differential pressure control valve) designed to be installed directly on the manifold and to guarantee its constant differential pressure, regardless of the conditions of the rest of the system.

The component has been designed to incorporate all accessories ordinarily present on the manifold of a radiant system: ball-type shut-off valve, filling unit, flow and return temperature gauges and automatic bleed valves both on the flow and return.

Dynamic balancing on the manifold keeps the flow rate in the circuits closer to that envisaged in the design phase and subsequent system calibration.
This makes it possible to maintain control over the speed of the water in the circuits and make the best use of the heat energy.

+ PLUS

- Greater energy savings.
- Reduced noise, by keeping the speed of the water in the circuits under control at all times.
- Fast, simple calibration.
- Simplified installation, all accessories incorporated in a single component.
- Ultra-compact solution: the size of the manifold housing does not need to be increased.



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GBC 01



Balancing unit for manifolds consisting of EQUIFLUID differential pressure control valve, "partner" valve, capillary pipe, ball isolation valves, automatic air vent valves and fill/drain valves.

Code	Size	Range	Class	Packaging
550170	1" M x 1" M	50 - 300 mbar	TE	1
550171	1" M x 1" M	250 - 600 mbar	TE	1

GBC 05



Balancing unit for manifolds consisting of EQUIFLUID differential pressure control valve with fixed setting, "partner" valve, capillary pipe, ball isolation valves, automatic air vent valves and fill/drain valves.

Code	Size	Range	Class	Packaging
550170100	1" M x 1" M	100 mbar	TE	1
550170200	1" M x 1" M	200 mbar	TE	1
550170300	1" M x 1" M	300 mbar	TE	1

AGBC 11



Thermal insulation for balancing unit for manifolds.

Code	Class	Packaging
506184	TE	1

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DPCV XL



Differential pressure control valve for high flow capacity.

Code	Size	Range	Isolation / Metering	Class	Packaging
550131	DN 65	200-1000 mbar	-	TH	1
550132	DN 80	200-1000 mbar	-	TH	1
550133	DN 100	200-1000 mbar	-	TH	1
550134	DN 125	200-1000 mbar	-	TH	1
550135	DN 150	200-1000 mbar	-	TH	1
550136	DN 65	800-1600 mbar	-	TH	1
550137	DN 80	800-1600 mbar	-	TH	1
550138	DN 100	800-1600 mbar	-	TH	1
550139	DN 65	200-1000 mbar	✓	TH	1
550140	DN 80	200-1000 mbar	✓	TH	1
550141	DN 100	200-1000 mbar	✓	TH	1
550142	DN 125	200-1000 mbar	✓	TH	1
550143	DN 150	200-1000 mbar	✓	TH	1
550144	DN 65	800-1600 mbar	✓	TH	1
550145	DN 80	800-1600 mbar	✓	TH	1
550146	DN 100	800-1600 mbar	✓	TH	1

KEKO 01



High pressure branch connection unit, complete with piezometric socket.

Code	Size	Length	Class	Packaging
509134	1/4" M	2 m	TH	1

KEKO 03



High pressure branch connection unit.

Code	Size	Length	Class	Packaging
509142	1/4" M	2 m	TH	1

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SANITARY SYSTEMS



INDEX



RTV - thermostatic valve for temperature control of sanitary recirculation circuits 356



LEGIO•BOX - Temperature control and thermal disinfection system 360



Thermostatic blenders 362



Safety units 368



SAFEMIX - Safety units with integrated thermostatic blender 370



Safety valves for sanitary applications 372



Check valves 373

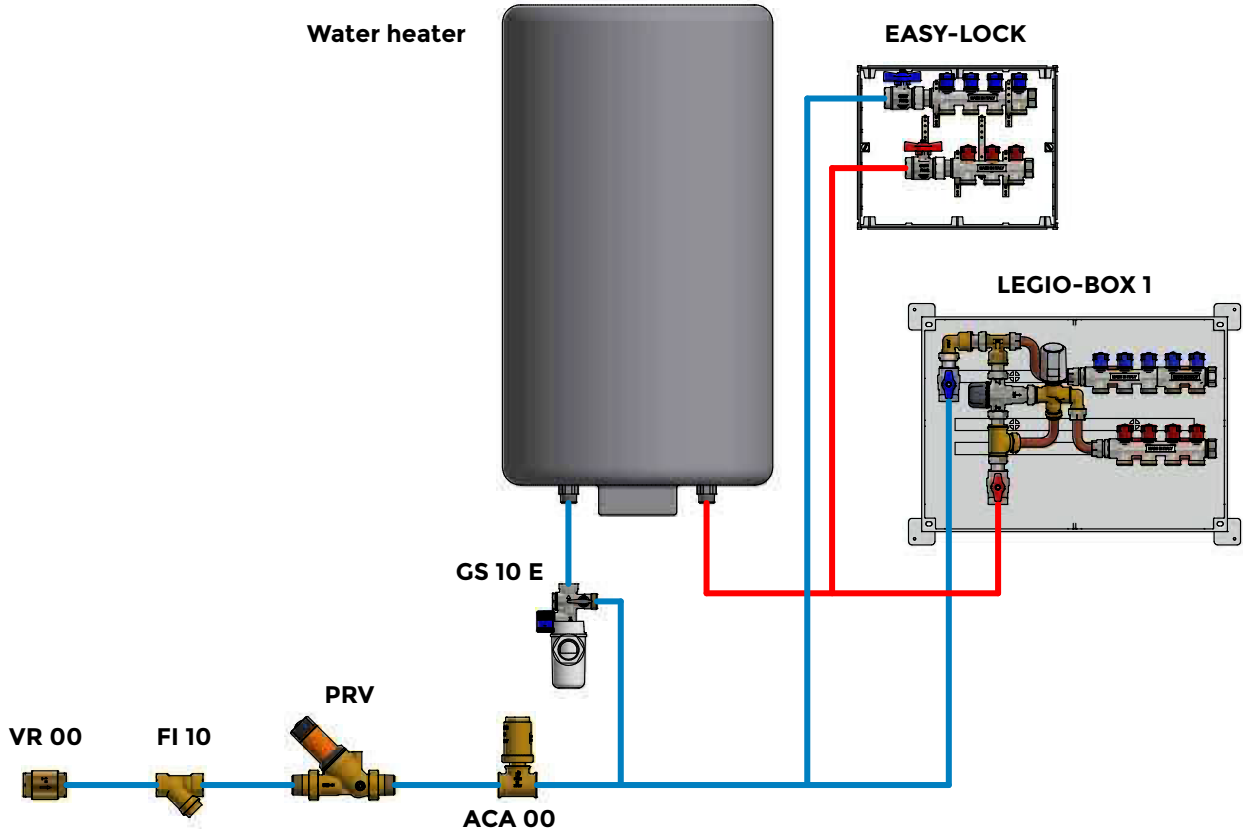


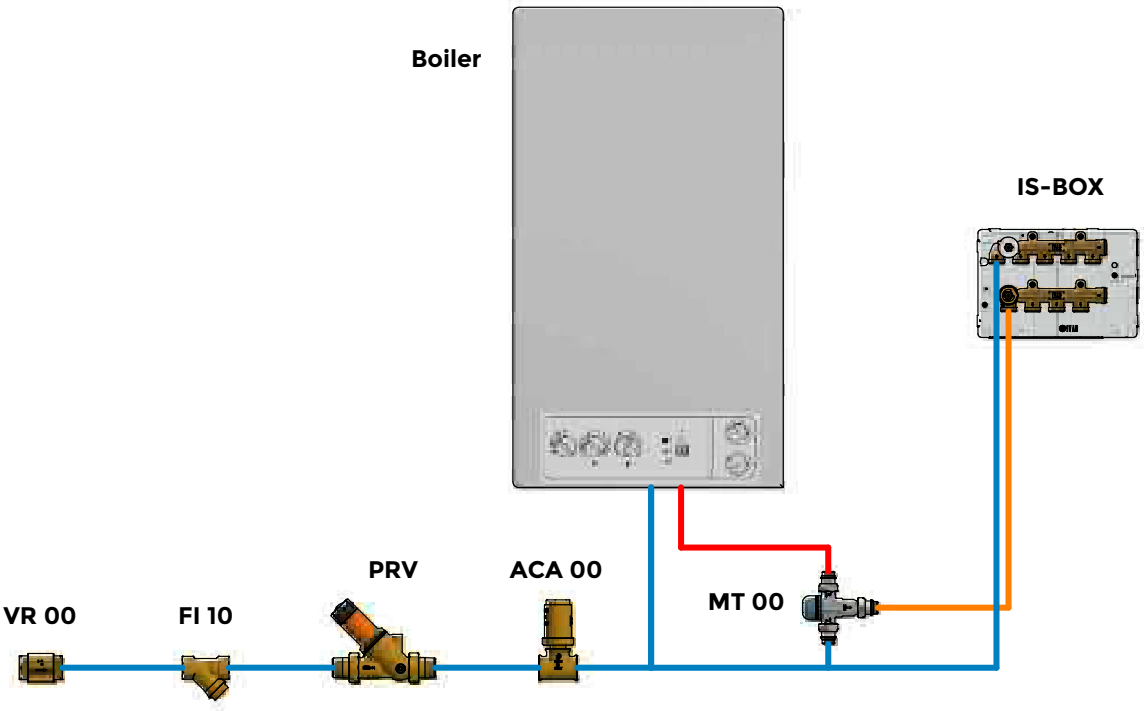
Pressure reducing valves 374



Strainers 378

INSTALLATION LAYOUTS





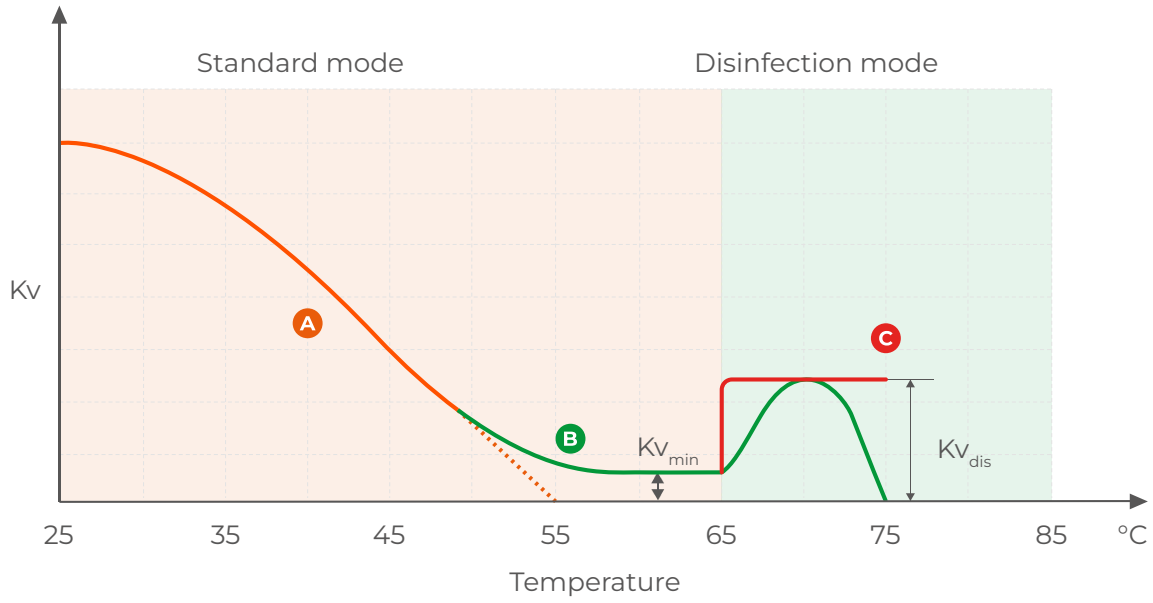
RTV

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.



Temperature control only



Temperature control and mechanical bypass for heat disinfection



Temperature control and electronic bypass management for heat disinfection

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Legio•Hub is the controller which lets you manage up to nine RTV-C valves installed on the return of the DHW recirculation risers, managing the thermal disinfection cycles and thermal shocks, where applicable, in order to prevent proliferation of Legionella.

The disinfection cycles may be enabled in accordance with three different operating programs:

- once daily in accordance with Italian national guidelines;
- with a specific frequency according to disinfection temperature/duration tables;
- user settable.

In a similar manner, thermal shocks involve the entire riser being brought to a temperature exceeding 70 °C for at least 30 minutes. This procedure is repeated for three consecutive days.

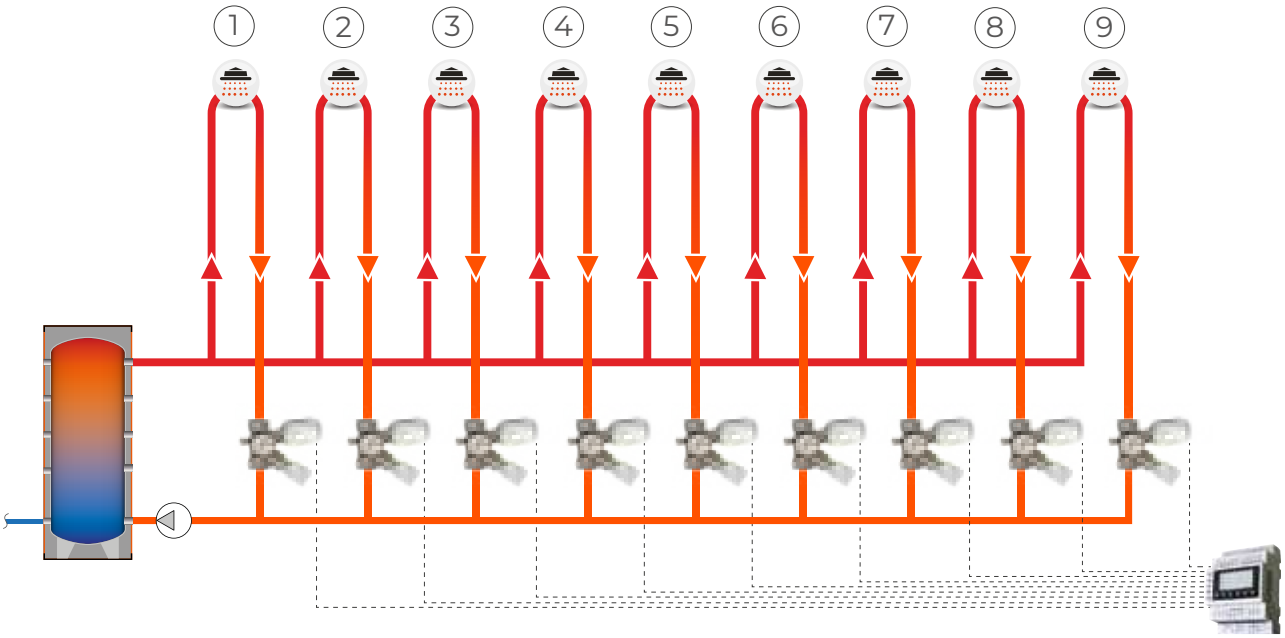
During the activation of the disinfection or thermal shock cycles, the controller opens the bypass of the RTV-C valves by operating on the electrothermal heads, aiming to keep the riser above the temperature required by the cycle.

In the event that a cycle were to fail on one or more risers, for example because the system has not managed to reach the required temperature for various reasons, the cycle will be repeated only on the risers which failed to reach it.
The controller also features alarm warning screens and the ability to enable datalogging to monitor the temperature trends over time.

Legio•Hub is supplied with two temperature sensors for the management of two RTV-C valves, but is able to manage up to nine valves by adding an appropriate number of sensors.
It is also possible to install an optional touchscreen to increase the usability of the controller.

N.B.: the controller does not manage the temperature of the generator, which must be set to a temperature sufficient to meet the disinfection requirements.

RTV-C reduces the flow rate as the fluid temperature increases. It also allows the thermal disinfection bypass to be opened at the disinfection temperature set on the **Legio•Hub**.



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RTV - THERMOSTATIC VALVE FOR TEMPERATURE CONTROL OF SANITARY RECIRCULATION CIRCUITS

RTV A



Thermostatic valve for temperature control of sanitary recirculation circuits, with/without thermal insulation.

Code	Size	Range	Insulation	Class	Packaging
506187	1/2" F	35 – 60 °C	-	OD	1 / 22
507036	3/4" F	35 – 60 °C	-	OD	1 / 22
506187I	1/2" F	35 – 60 °C	✓	OD	1 / 12
507036I	3/4" F	35 – 60 °C	✓	OD	1 / 12

RTV B



Thermostatic valve for temperature control of sanitary recirculation circuits with mechanical bypass for thermal disinfection of sanitary systems, with/without thermal insulation.

Code	Size	Range	Insulation	Class	Packaging
506188	1/2" F	35 – 60 °C	-	OD	1 / 22
507037	3/4" F	35 – 60 °C	-	OD	1 / 22
506188I	1/2" F	35 – 60 °C	✓	OD	1 / 12
507037I	3/4" F	35 – 60 °C	✓	OD	1 / 12

RTV C



Thermostatic valve for temperature control of sanitary recirculation circuits with electronically controlled bypass for thermal disinfection of sanitary systems, with/without thermal insulation (electrothermal head not included).

Code	Size	Range	Insulation	Class	Packaging
506189	1/2" F	35 – 60 °C	-	OD	1 / 22
507038	3/4" F	35 – 60 °C	-	OD	1 / 22
506189I	1/2" F	35 – 60 °C	✓	OD	1 / 12
507038I	3/4" F	35 – 60 °C	✓	OD	1 / 12



Electrothermal heads >>p. 444

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CRTV 02



Thermal insulation for RTV valve.

Code	Class	Packaging
506190	OD	1 / 12

LEGIO-HUB



Basic module for antilegionella cycles management with built-in screen, clamp kit and temperature probe. Suitable for RTV C.

Code	Size	Module	Class	Packaging
CRTV01	12-24 V AC	≤ 9 RTV C	OD	1

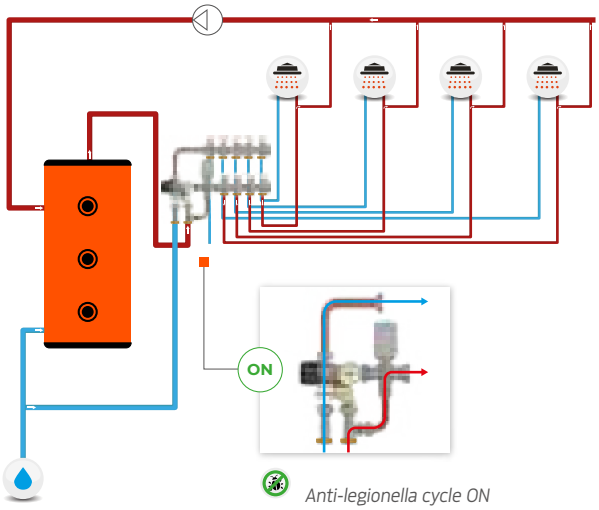
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LEGIO•BOX

LEGIO-BOX is a device designed to provide comfort and safety for domestic water distribution.

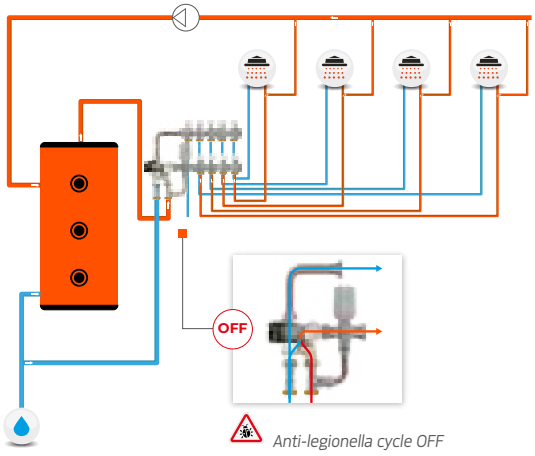
During supply to the terminals, **LEGIO-BOX** controls the distribution of cold and hot water (Fig. B), whose temperature it regulates through the thermostatic mixer MT 05. This is an anti-scald thermostatic mixer, with adjustable temperature between 36 °C and 50 °C, which guarantees a very high level 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.

Fig. A



Anti-legionella cycle ON

Fig. B

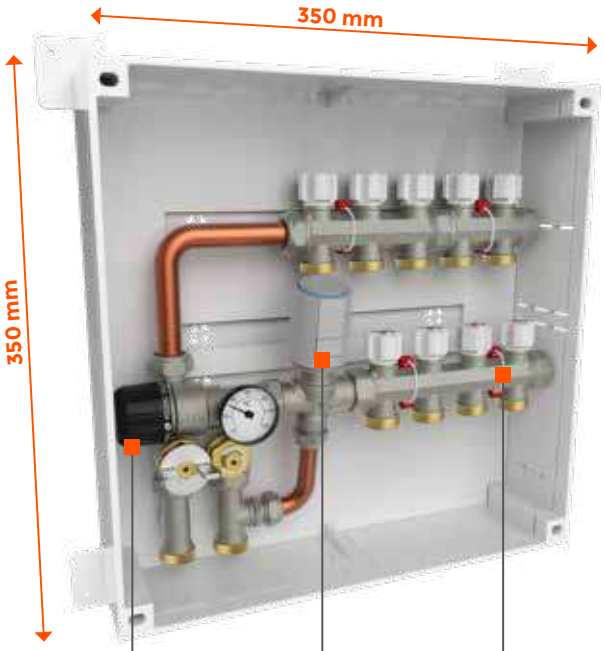


Anti-legionella cycle OFF

Recirculation ON (optional)

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



Upon request, the anti-legionella cycle management control electronics are available.

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 cabinet, or with just the device and the cabinet.

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LEGIO-BOX 1



Multifunction temperature control and thermal disinfection system with/without electrothermal head for sanitary systems, complete with manifolds, box and fastening kit.

Code	Cabinet	Hot / Cold ways	Size	Head	Class	Packaging
507039	✓	2 HOT / 3 COLD	3/4"	✓	OE	1
507040	✓	2 HOT / 3 COLD	3/4"	-	OE	1
507041	✓	3 HOT / 4 COLD	3/4"	✓	OE	1
507042	✓	3 HOT / 4 COLD	3/4"	-	OE	1
507043	✓	4 HOT / 5 COLD	3/4"	✓	OE	1
507044	✓	4 HOT / 5 COLD	3/4"	-	OE	1

LEGIO-BOX 2



Multifunction temperature control and thermal disinfection system with/without electrothermal head for sanitary systems, complete with box and fastening kit for manifolds.

Code	Cabinet	Size	Head	Class	Packaging
507045	✓	3/4"	✓	OE	1
507046	✓	3/4"	-	OE	1

LEGIO-BOX 3



Multifunction temperature control and thermal disinfection system with/without electrothermal head for sanitary systems.

Code	Size	Head	Class	Packaging
507047	3/4"	✓	OE	1
507048	3/4"	-	OE	1

IKLE01



Basic module for antilegionella cycles management with built-in screen, clamp kit and temperature probe.

Code	Size	Class	Packaging
IKLE01	12-24 V AC	OE	1

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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

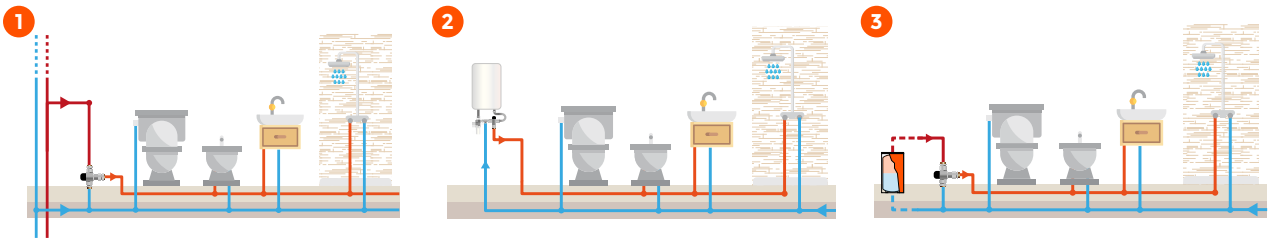
The thermostatic mixer can also be considered a safety device because of its anti-scald function. In fact, if there is no cold water in the inlet, the device reacts by closing the hot water inlet instantly and avoiding scalding hazards for users. This feature makes the device particularly suitable in 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.

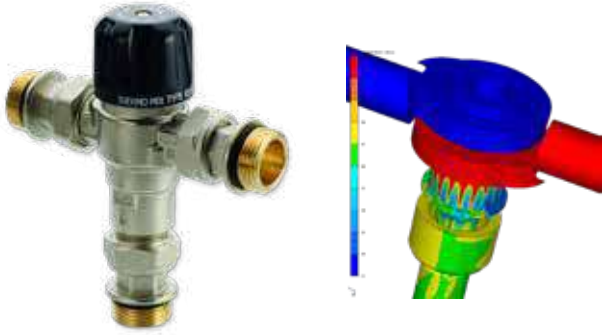
Materials
Body: brass CW617N
Parts in rubber: EPDM
Spring: stainless steel
Shutter: Ultem + silicon
Control cap or knob: ABS

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





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.

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MT
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

MT 00



Thermostatic blender with fixed setting complete with fittings with non-return valve at the inlets (max. intake temperature: 90 °C).

Code	Size	Range	Color	Class	Packaging
507020	1/2" M	50 (+0/-3) °C	■	QA	1 / 22
507030	3/4" M	50 (+0/-3) °C	■	QA	1 / 22

MT 05



Adjustable thermostatic blender complete with fittings with non-return valve at the inlets (max. intake temperature: 90 °C).

Code	Size	Range	Color	Class	Packaging
507025	1/2" M	36-50 °C	■	QA	1 / 22
507035	3/4" M	36-50 °C	■	QA	1 / 22

MT 00 SOL



Thermostatic blender with fixed setting for solar applications complete with fittings with non-return valve at the inlets (max. intake temperature: 110 °C).

Code	Size	Range	Color	Class	Packaging
507020SOL	1/2" M	50 (+0/-3) °C	■	QA	1 / 22
507030SOL	3/4" M	50 (+0/-3) °C	■	QA	1 / 22

MT 05 SOL



Adjustable thermostatic blender for solar applications complete with fittings with non-return valve at the inlets (max. intake temperature: 110 °C).

Code	Size	Range	Color	Class	Packaging
507025SOL	1/2" M	36-50 °C	■	QA	1 / 22
507035SOL	3/4" M	36-50 °C	■	QA	1 / 22

MT 00 HT



High temperature thermostatic blender with fixed setting complete with fittings with non-return valve at the inlets (max. intake temperature: 90 °C).

Code	Size	Range	Color	Class	Packaging
507070	1/2" M	63 (+0/-3) °C	■	QA	1 / 22
507080	3/4" M	63 (+0/-3) °C	■	QA	1 / 22

MT 05 HT



Adjustable high temperature thermostatic blender complete with fittings with non-return valve at the inlets (max. intake temperature: 90 °C).

Code	Size	Range	Color	Class	Packaging
507075	1/2" M	50-63 °C	■	QA	1 / 22
507085	3/4" M	50-63 °C	■	QA	1 / 22

AMT 01



Soft-seal pipe fitting with/without anti-pollution non return valve for thermostatic blender.

Code	Size	Non return valve	Class	Packaging
501669	1/2" M	-	QA	75 / 300
501902	3/4" M	-	QA	50 / 200
500499	1/2" M	✓	QA	75 / 300
501903	3/4" M	✓	QA	50 / 200

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Thermostatic mixers are devices which mix the incoming hot and cold water so as to keep the outlet temperature constant even with changes in inlet pressure, temperature and flow rate.

These devices can be used for DHW applications, or for heating applications to control the flow temperature to the terminal devices.

This range features a larger main device body and is available in numerous variants:
- with DN15-DN20-DN25 female fittings
- with 1/2", 3/4" or 1" unions, with or without check valve
- with special connections such as union with press fitting terminal for copper pipe, or union with end-feed terminal for copper pipe (once again with or without check valve).

The range is further diversified by the regulation range and application.
The thermostatic mixers are available:
- ☐ with regulation range of 35-55 °C and maximum inlet temperature up to 85 °C;
- ■ with regulation range of 35-55 °C and maximum inlet temperature up to 110°C for solar applications;
- ■ with regulation range of 40-80 °C and maximum inlet temperature up to 110 °C for high-temperature applications.

+ PLUS

- Stable temperature regulation.
- Suitable for heating or DHW applications (both at the point of distribution and point of use).
- Available for solar applications and with high-temperature regulation.
- Wide range of connections, with and without check valve.

MT
Standard: sanitary applications or flow temperature control in heating systems

35-55 °C (Max Temp. 85 °C)



MT SOL
For solar applications

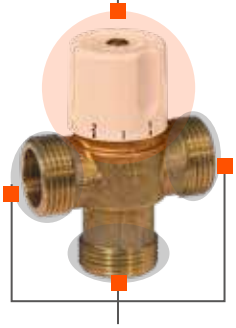
35-55 °C (Max Temp. 110 °C)



MT HT
For high temperature applications

40-80 °C (Max Temp. 110 °C)





Available connections:

1/2" F - 3/4" F - 1" F



1" M

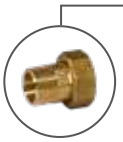


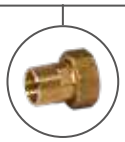
1/2" M - 3/4" M - 1" M



With/without non return valve

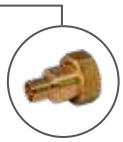
Available fittings
(with/without non return valve):


AMT 100


AMT 100 NPT


AMT 100 P


AMT 100 S


AMT 100 X

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MT 15



Adjustable thermostatic blender complete with fittings with/without non-return valve at the inlets (max. intake temperature: 85 °C).

Code	Size	Range	Non return valve	Color	Class	Packaging
507081	1/2" M	35-55 °C	-		QA	1 / 10
507082	3/4" M	35-55 °C	-		QA	1 / 10
507083	1" M	35-55 °C	-		QA	1 / 10
507086	1/2" M	35-55 °C	✓		QA	1 / 10
507087	3/4" M	35-55 °C	✓		QA	1 / 10
507088	1" M	35-55 °C	✓		QA	1 / 10

MT 15 SOL



Adjustable thermostatic blender for solar applications complete with fittings with/without non-return valve at the inlets (max. intake temperature: 110 °C).

Code	Size	Range	Non return valve	Color	Class	Packaging
507081SOL	1/2" M	35-55 °C	-		QA	1 / 10
507082SOL	3/4" M	35-55 °C	-		QA	1 / 10
507083SOL	1" M	35-55 °C	-		QA	1 / 10
507086SOL	1/2" M	35-55 °C	✓		QA	1 / 10
507087SOL	3/4" M	35-55 °C	✓		QA	1 / 10
507088SOL	1" M	35-55 °C	✓		QA	1 / 10

MT 15 HT



Adjustable high temperature thermostatic blender complete with fittings with/wihout non-return valve at the inlets (max. intake temperature: 110 °C).

Code	Size	Range	Non return valve	Color	Class	Packaging
507081HT	1/2" M	40-80 °C	-		QA	1 / 10
507082HT	3/4" M	40-80 °C	-		QA	1 / 10
507083HT	1" M	40-80 °C	-		QA	1 / 10
507086HT	1/2" M	40-80 °C	✓		QA	1 / 10
507087HT	3/4" M	40-80 °C	✓		QA	1 / 10
507088HT	1" M	40-80 °C	✓		QA	1 / 10

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THERMOSTATIC BLENDERS

MT 35



Adjustable thermostatic blender with female connections (max. intake temperature: 85 °C).

Code	Size	Range	Color	Class	Packaging
507076	1/2" F	35-55 °C		QA	1 / 10
507077	3/4" F	35-55 °C		QA	1 / 10
507078	1" F	35-55 °C		QA	1 / 10

MT 35 SOL



Adjustable thermostatic blender for solar applications with female connections (max. intake temperature: 110 °C).

Code	Size	Range	Color	Class	Packaging
507076SOL	1/2" F	35-55 °C		QA	1 / 10
507077SOL	3/4" F	35-55 °C		QA	1 / 10
507078SOL	1" F	35-55 °C		QA	1 / 10

MT 35 HT



Adjustable high temperature thermostatic blender with female connections (max. intake temperature: 110 °C).

Code	Size	Range	Color	Class	Packaging
507076HT	1/2" F	40-80 °C		QA	1 / 10
507077HT	3/4" F	40-80 °C		QA	1 / 10
507078HT	1" F	40-80 °C		QA	1 / 10

MT 25



Adjustable thermostatic blender with male connections (max. intake temperature: 85 °C).

Code	Size	Range	Color	Class	Packaging
507079	1" M	35-55 °C		QA	1 / 10

MT 25 SOL



Adjustable thermostatic blender for solar applications with male connections (max. intake temperature: 110 °C).

Code	Size	Range	Color	Class	Packaging
507079SOL	1" M	35-55 °C		QA	1 / 10

MT 25 HT



Adjustable high temperature thermostatic blender with male connections (max. intake temperature: 110 °C).

Code	Size	Range	Color	Class	Packaging
507079HT	1" M	40-80 °C		QA	1 / 10

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AMT 100

Fitting with male connection with/without anti-pollution non return valve for thermostatic blender.



Code	Size	Non return valve	Class	Packaging
520500	1" F x 1/2" M	-	QA	10 / 100
520502	1" F x 3/4" M	-	QA	10 / 100
520504	1" F x 1" M	-	QA	10 / 100
520501	1" F x 1/2" M	✓	QA	10 / 100
520503	1" F x 3/4" M	✓	QA	10 / 100
520505	1" F x 1" M	✓	QA	10 / 100

AMT 100 NPT

Fitting with NPT male connection with/without anti-pollution non return valve for thermostatic blender.



Code	Size	Non return valve	Class	Packaging
520506	1" F x 1/2" M NPT	-	QA	10 / 100
520508	1" F x 3/4" M NPT	-	QA	10 / 100
520510	1" F x 1" M NPT	-	QA	10 / 100
520507	1" F x 1/2" M NPT	✓	QA	10 / 100
520509	1" F x 3/4" M NPT	✓	QA	10 / 100
520511	1" F x 1" M NPT	✓	QA	10 / 100

AMT 100 P

Fitting with clamping connection with/without anti-pollution non return valve for thermostatic blender.



Code	Size	Non return valve	Class	Packaging
520518	1" F x 1/2"	-	QA	10 / 100
520520	1" F x 3/4"	-	QA	10 / 100
520522	1" F x 1"	-	QA	10 / 100
520519	1" F x 1/2"	✓	QA	10 / 100
520521	1" F x 3/4"	✓	QA	10 / 100
520523	1" F x 1"	✓	QA	10 / 100

AMT 100 S

Fitting with welding connection with/without anti-pollution non return valve for thermostatic blender.



Code	Size	Non return valve	Class	Packaging
520512	1" F x 1/2"	-	QA	10 / 100
520514	1" F x 3/4"	-	QA	10 / 100
520516	1" F x 1"	-	QA	10 / 100
520513	1" F x 1/2"	✓	QA	10 / 100
520515	1" F x 3/4"	✓	QA	10 / 100
520517	1" F x 1"	✓	QA	10 / 100

AMT 100 X

Fitting with PEX 1807 connection with/without anti-pollution non return valve for thermostatic blender.



Code	Size	Non return valve	Class	Packaging
520524	1" F x 1/2"	-	QA	10 / 100
520526	1" F x 3/4"	-	QA	10 / 100
520525	1" F x 1/2"	✓	QA	10 / 100
520527	1" F x 3/4"	✓	QA	10 / 100

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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
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

Straight drain



Square drain



Adjustable drain





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GS 00 E



Safety unit with straight drainage valve.

Code	Size	Max inlet pressure	Color	Class	Packaging
520601	3/4" - BRASS	7 bar		TA	1 / 8
520604	3/4" - TEFLON	7 bar		TA	1
520607	3/4" - STAINLESS STEEL	7 bar		TA	1

GS 10 E



Safety unit with angle drainage valve.

Code	Size	Max inlet pressure	Color	Class	Packaging
520602	3/4" - BRASS	7 bar		TA	1 / 8
520605	3/4" - TEFLON	7 bar		TA	1
520608	3/4" - STAINLESS STEEL	7 bar		TA	1

GS 20 E



Safety unit with swiveling drainage valve.

Code	Size	Max inlet pressure	Color	Class	Packaging
520600	3/4" - BRASS	7 bar		TA	1 / 8
520603	3/4" - TEFLON	7 bar		TA	1
520606	3/4" - STAINLESS STEEL	7 bar		TA	1

AGS 00



Dielectric fitting.

Code	Size	Class	Packaging
506585	3/4" F x 1" M	TA	25 / 200

AGS 01



Drain funnel.

Code	Class	Packaging
507090	TC	1 / 20

AGS 03



Fittings kit for the connection of the boiler to the safety unit and thermostatic blender.

Code	Size	Class	Packaging
507093	3/4" M x 3/4" G.	TC	5 / 40

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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 version.

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



SAFEMIX 05



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SAFEMIX 05



Safety unit with swiveling drainage valve, integrated adjustable thermostatic blender and dielectric fitting.

Code	Size	Range	Max inlet pressure	Color	Class	Packaging
507071	3/4" x 1" F - TEFLON	36-50 °C	7 bar		TA	1 / 6
506574	3/4" x 1" F - STAINLESS STEEL	36-50 °C	7 bar		TA	1 / 6

SAFEMIX 15



Safety unit with swiveling drainage valve, integrated adjustable thermostatic blender, dielectric fittings and boiler connection kit.

Code	Size	Range	OC distance	Max inlet pressure	Color	Class	Packaging
506580	3/4" - TEFLON	36-50 °C	230 mm	7 bar		TA	1 / 6
506578	3/4" - STAINLESS STEEL	36-50 °C	230 mm	7 bar		TA	1 / 6

ASM 05



Boiler connection kit equipped with dielectric fitting.

Code	Size	OC distance	Class	Packaging
506586	3/4"	230 mm	TA	1 / 8

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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



Male-female safety valve.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702327	1/2" F x 1/2" M	7 bar		TA	20 / 160
5702337	3/4" F x 3/4" M	7 bar		TA	15 / 120

VSC 11 S



Male-female safety valve with connection for pressure gauge.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702467	1/2" M x 1/2" F	7 bar		TA	20 / 160
5702477	3/4" M x 3/4" F	7 bar		TA	15 / 120

VSC 00 S



Female-female safety valve.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702307	1/2" F x 1/2" F	7 bar		TA	10 / 80
5702317	3/4" F x 3/4" F	7 bar		TA	15 / 120

VSC 01 S



Female-female safety valve with connection for pressure gauge.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702447	1/2" F x 1/2" F	7 bar		TA	20 / 160
5702457	3/4" F x 3/4" F	7 bar		TA	15 / 120

VSC 15 S



Male-female safety valve with pressure gauge.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702367	1/2" M x 1/2" F	7 bar		TA	1
5702377	3/4" M x 3/4" F	7 bar		TA	1

VSC 05 S



Female-female safety valve with pressure gauge.

Code	Size	Max inlet pressure	Color	Class	Packaging
5702347	1/2" F x 1/2" F	7 bar		TA	1
5702357	3/4" F x 3/4" F	7 bar		TA	1

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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.

VNR 01

Anti-pollution non return valve.



Code	Size	Class	Packaging
500899	3/4" - L. 58 mm	HD	180
500900	3/4" - L. 77,5 mm	HD	140

VR 00

EUROPA model valve.



Code	Size	Max inlet pressure	Operating temp.	Class	Packaging
509045	3/8" F x 3/8" F	25 bar	-20 °C / 100 °C	HD	20 / 80
509046	1/2" F x 1/2" F	25 bar	-20 °C / 100 °C	HD	20 / 80
509047	3/4" F x 3/4" F	25 bar	-20 °C / 100 °C	HD	10 / 40
509048	1" F x 1" F	25 bar	-20 °C / 100 °C	HD	12 / 48
509049	1"1/4 F x 1"1/4 F	18 bar	-20 °C / 100 °C	HD	6 / 24
509050	1"1/2 F x 1"1/2 F	18 bar	-20 °C / 100 °C	HD	4 / 16
509051	2" F x 2" F	18 bar	-20 °C / 100 °C	HD	2 / 8
509052	2"1/2 F x 2"1/2 F	12 bar	-20 °C / 100 °C	HD	3
509053	3" F x 3" F	12 bar	-20 °C / 100 °C	HD	1
509054	4" F x 4" F	12 bar	-20 °C / 100 °C	HD	1



AVR 00 >>p. 378

ACA 00

Water-hammer shock absorber.



Code	Size	Max inlet pressure	Max operating temp.	Class	Packaging
509029	1/2" M	10 bar	130 °C	HD	4 / 12

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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:

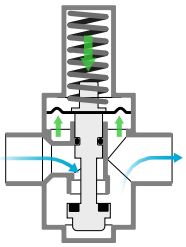
- they protect the system from excessive pressure. Generally, the components installed inside a dwelling have a maximum static working pressure of 10 bar, while the pressure of the mains can reach higher levels, which could damage the most critical components;
- they stabilize the pressure in the domestic 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.

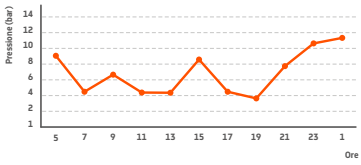
The **PRV** line of pressure reducers is of the cartridge type with compensated seat: in general, pressure reduction and stabilisation are obtained by the opposed action of the two forces that strike the shutter: one, which tends to close, is exerted by the pressure on the membrane, the other, which 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.

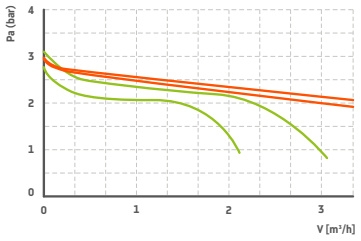
PRV pressure reducers also have an indicator for easy calibration of the outlet pressure with a special fitting for the installation of a pressure gauge to read and check downstream pressure (Fig. 1). Furthermore, the knob can be rotated to make the indicator always visible regardless of its installation position.

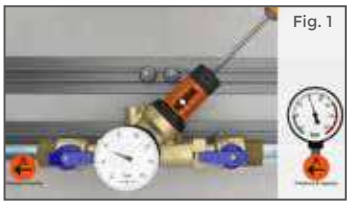
Also, the cartridge has a filter that can be easily cleaned by removing the cap and cutting off the downstream pressure reducer (Fig. 2).

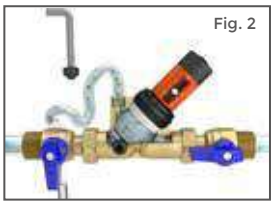
The PRV are available in sizes DN 15, 20, 25, 32 and 40, also in the version with outlets.
The PRV series pressure reducers have also been certified according to the EN 1567 European standard by the SVGW institute for applications in cold water (30°C) with inlet pressures not exceeding 16 bar. Nevertheless, IVAR guarantees the product up to a temperature of 70°C and a maximum inlet pressure of 25 bar.







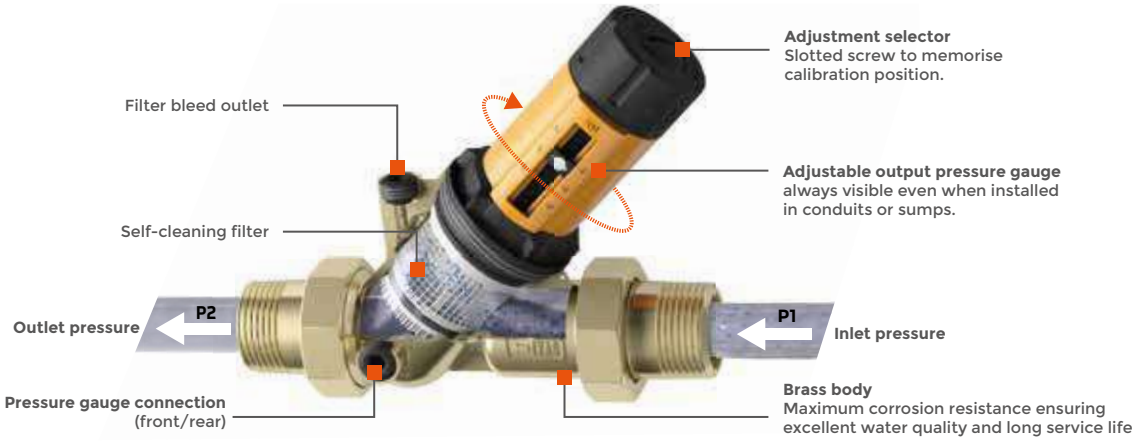

Fig. 1


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

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PRV



Adjustable pressure reducing valve with self-cleaning strainer (certified according to UNI EN 1567 standard for cold water: 30 °C, 16 bar).

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Filtration capacity	Class	Packaging
509126	DN 15 x 1/2" M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509127	DN 20 x 3/4" M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509128	DN 25 x 1" M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509129	DN 32 x 1"1/4 M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509130	DN 40 x 1"1/2 M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8

PRV M



Adjustable pressure reducing valve with self-cleaning strainer and pressure gauge.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Filtration capacity	Class	Packaging
509126M	DN 15 x 1/2" M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509127M	DN 20 x 3/4" M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509128M	DN 25 x 1" M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509129M	DN 32 x 1"1/4 M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509130M	DN 40 x 1"1/2 M fitting	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8

PRV NB



Adjustable pressure reducing valve with self-cleaning strainer without fittings (certified according to UNI EN 1567 standard for cold water: 30 °C, 16 bar).

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Filtration capacity	Class	Packaging
509151	DN 15 x 3/4" M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509152	DN 20 x 1" M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509153	DN 25 x 1"1/4 M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509154	DN 32 x 1"1/2 M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8
509155	DN 40 x 2" M	1,5 - 6 bar	25 bar	4 bar	70 °C	500 µm	HD	1 / 8

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PRESSURE REDUCING VALVES

RDP 00



Pressure reducing valve with inspection filter on the inlet and 2 pressure gauges, membrane operation.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Class	Packaging
509001	1/2" M x 1/2" M	0,5 - 6 bar	25 bar	3 bar	80 °C	HD	1
509002	3/4" M x 3/4" M	0,5 - 6 bar	25 bar	3 bar	80 °C	HD	1

RDP 10



Pressure reducing valve, piston operation.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Class	Packaging
509003	3/8" F x 3/8" F	1 - 4 bar	15 bar	3 bar	80 °C	HD	1
509004	1/2" F x 1/2" F	1 - 6 bar	15 bar	3 bar	80 °C	HD	5 / 40
509005	3/4" F x 3/4" F	1 - 4 bar	15 bar	3 bar	80 °C	HD	5 / 20

RDP 20



Pressure reducing valve with pressure gauge coupling, piston operation.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Class	Packaging
509006	3/8" F x 3/8" F	1 - 4 bar	15 bar	3 bar	80 °C	HD	1 / 20
509007	1/2" F x 1/2" F	1 - 4 bar	15 bar	3 bar	80 °C	HD	5 / 40
509008	3/4" F x 3/4" F	1 - 4 bar	15 bar	3 bar	80 °C	HD	5 / 40

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RDP 30



Pressure reducing valve with steel seat and pressure gauge fittings, piston operation.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Class	Packaging
509009	3/8" F x 3/8" F	1 - 6 bar	25 bar	3 bar	80 °C	HD	1
509010	1/2" F x 1/2" F	1 - 6 bar	25 bar	3 bar	80 °C	HD	4 / 16
509011	3/4" F x 3/4" F	1 - 6 bar	25 bar	3 bar	80 °C	HD	2 / 8
509012	1" F x 1" F	1 - 6 bar	25 bar	3 bar	80 °C	HD	1 / 4
509013	1"1/4 F x 1"1/4 F	1 - 6 bar	25 bar	3 bar	80 °C	HD	1 / 4
509014	1"1/2 F x 1"1/2 F	1 - 6 bar	25 bar	3 bar	80 °C	HD	1 / 4
509015	2" F x 2" F	1 - 6 bar	25 bar	3 bar	80 °C	HD	3
509016	2"1/2 F x 2"1/2 F	1 - 6 bar	25 bar	3 bar	80 °C	HD	1
509017	3" F x 3" F	1 - 6 bar	25 bar	3 bar	80 °C	HD	1
509018	4" F x 4" F	1 - 6 bar	25 bar	3 bar	80 °C	HD	1

RDP 40



Pressure reducing valve with steel seat and pressure gauge fittings, piston operation.

Code	Size	Range	Max inlet pressure	Preset	Max operating temp.	Class	Packaging
509020	1/2" M x 1/2" M	1 - 6 bar	25 bar	3 bar	80 °C	HD	3 / 12
509021	3/4" M x 3/4" M	1 - 6 bar	25 bar	3 bar	80 °C	HD	3 / 12
509022	1" M x 1" M	1 - 6 bar	25 bar	3 bar	80 °C	HD	1 / 4
509023	1"1/4 M x 1"1/4 M	1 - 6 bar	25 bar	3 bar	80 °C	HD	1
509024	1"1/2 M x 1"1/2 M	1 - 6 bar	25 bar	3 bar	80 °C	HD	1
509025	2" M x 2" M	1 - 6 bar	25 bar	3 bar	80 °C	HD	2

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STRAINERS

FI 00



Self-cleaning filter with 2 pressure gauges, pull-out filter cartridge and discharge cock.

Code	Size	Max inlet pressure	Max operating temp.	Filtration capacity	Class	Packaging
509030	1/2" F x 1/2" F	25 bar	110 °C	100 µm	HD	2
509031	3/4" F x 3/4" F	25 bar	110 °C	100 µm	HD	2
509032	1" F x 1" F	25 bar	110 °C	100 µm	HD	2
509033	1"1/4 F x 1"1/4 F	25 bar	110 °C	100 µm	HD	2
509034	1"1/2 F x 1"1/2 F	25 bar	110 °C	100 µm	HD	2
509035	2" F x 2" F	25 bar	110 °C	100 µm	HD	2
5090303	1/2" F x 1/2" F	25 bar	110 °C	300 µm	HD	2
5090313	3/4" F x 3/4" F	25 bar	110 °C	300 µm	HD	2
5090323	1" F x 1" F	25 bar	110 °C	300 µm	HD	2
5090333	1"1/4 F x 1"1/4 F	25 bar	110 °C	300 µm	HD	2
5090343	1"1/2 F x 1"1/2 F	25 bar	110 °C	300 µm	HD	2
5090353	2" F x 2" F	25 bar	110 °C	300 µm	HD	2

FI 10



Y-filter complete with filter cartridge and inspection plug.

Code	Size	Operating temp.	Filtration capacity	Class	Packaging
509036	1/2" F x 1/2" F	-20 °C / 110 °C	500 µm	HD	25
509037	3/4" F x 3/4" F	-20 °C / 110 °C	500 µm	HD	12
509038	1" F x 1" F	-20 °C / 110 °C	500 µm	HD	8 / 32
509039	1"1/4 F x 1"1/4 F	-20 °C / 110 °C	500 µm	HD	2
509040	1"1/2 F x 1"1/2 F	-20 °C / 110 °C	500 µm	HD	2
509041	2" F x 2" F	-20 °C / 110 °C	500 µm	HD	1 / 4
509042	2"1/2 F x 2"1/2 F	-20 °C / 110 °C	800 µm	HD	3
509043	3" F x 3" F	-20 °C / 110 °C	800 µm	HD	3

AVR 00

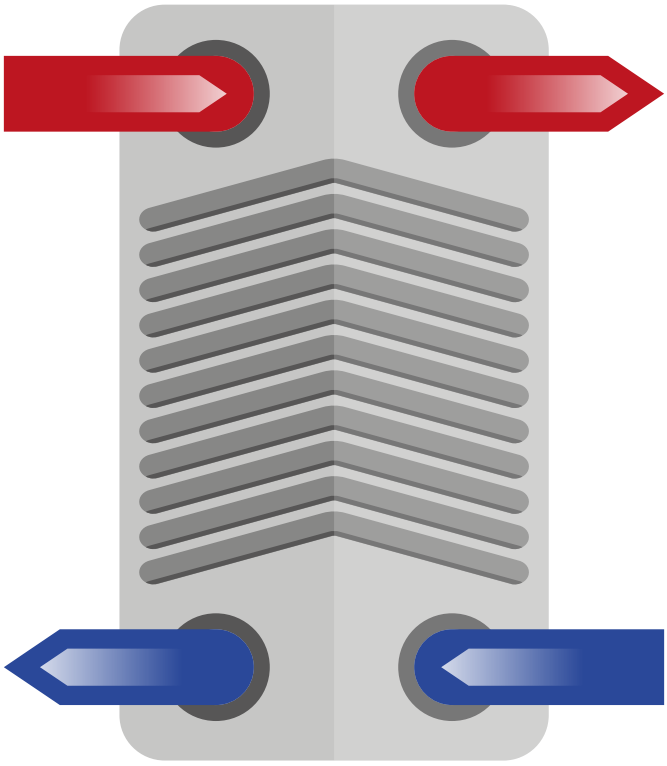


Filter for EUROPA model foot valve.

Code	Size	Filtration capacity	Class	Packaging
509055	3/8" M	1200 µm	HD	30 / 120
509056	1/2" M	1200 µm	HD	25 / 100
509057	3/4" M	1200 µm	HD	25 / 100
509058	1" M	1200 µm	HD	20 / 80
509059	1"1/4 M	1200 µm	HD	10 / 40
509060	1"1/2 M	1200 µm	HD	10 / 40
509061	2" M	1200 µm	HD	4 / 16
509062	2"1/2 M	2000 µm	HD	2 / 8
509063	3" M	2000 µm	HD	2 / 8
509064	4" M	2000 µm	HD	4

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SATELLITE MODULES



INDEX



IVAR E•SAT - Heat interface units with advanced electronic control 382



IVAR•SAT - Satellite modules with metering devices 384



ESAT•C - MSAT•C - Compact satellite modules 388



SAP - SAP•C - Domestic hot water producers 390



IVAR E•SAT

IVAR-ESAT DUAL HC



Dual heat exchanger heat interface unit for instantaneous production of domestic hot water and technical water for heating and cooling systems, with advanced electronic control.

IVAR-ESAT DUAL HC

IVAR-ESAT DUAL



Dual heat exchanger heat interface unit for instantaneous production of domestic hot water and technical water for heating systems, with advanced electronic control.

IVAR-ESAT DUAL

IVAR-ESAT MONO B



Heat exchanger heat interface unit for instantaneous production of technical water to supply a domestic hot water tank and heating systems, with advanced electronic control.

IVAR-ESAT MONO B

IVAR-ESAT MONO HL



Heat exchanger heat interface unit for instantaneous production of domestic hot water and management of high- and low-temperature heating systems, with advanced electronic control.

IVAR-ESAT MONO C

IVAR-ESAT MONO H



Heat exchanger heat interface unit for instantaneous production of domestic hot water and management of high-temperature heating systems, with advanced electronic control.

IVAR-ESAT MONO H

IVAR-ESAT MONO L



Heat exchanger heat interface unit for instantaneous production of domestic hot water and management of low-temperature heating systems, with advanced electronic control.

IVAR-ESAT MONO L

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IVAR E•SAT

Satellite modules with advanced electronic control

Satellite modules are essential to modern centralised heating and cooling systems. Through configurations involving one or more heat exchangers, they function as a connection point between the centralised distribution network and the heating and/or cooling system of each housing unit. Furthermore, they can also take care of domestic hot water production on the secondary side.

IVAR HC E•SAT DUAL



IVAR E•SAT DUAL



IVAR E•SAT MONO





Request
THE CATALOGUE

The breadth of the IVAR satellite range demonstrates the company's ongoing commitment to sustainable and efficient solutions, in order to offer an advanced and reliable option to customers' thermal needs

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IVAR•SAT

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.

Power IVAR-SAT H
Heating(*): approx. 10 kW
DHW 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 differential pressure at the ends of the module = 200 mbar
(**) Differential pressure at the ends of the module = 150 mbar and boiler temperature = 60 °C

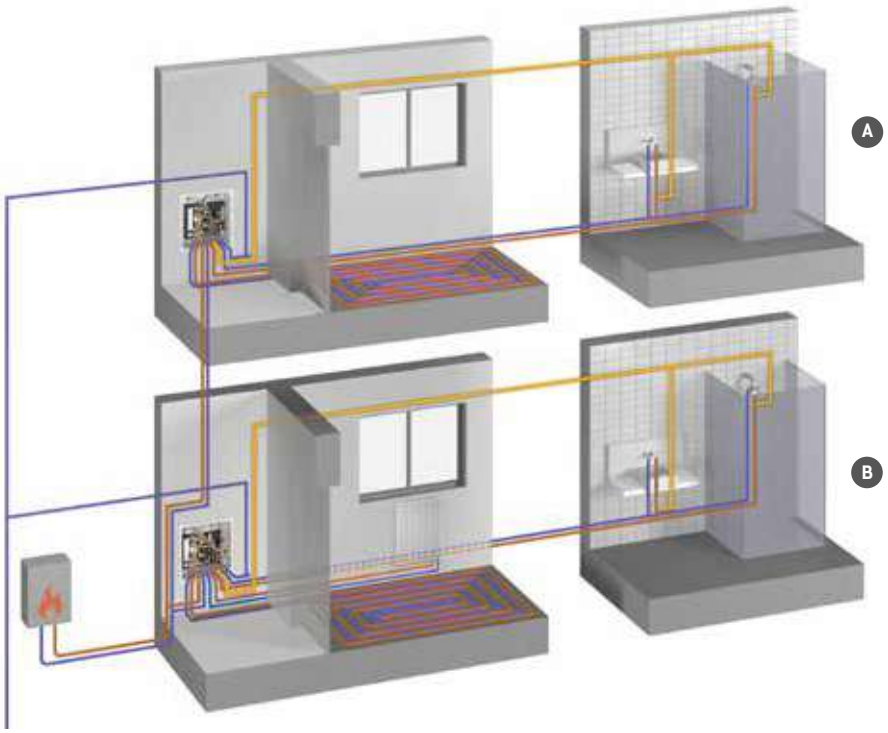
Power IVAR-SAT LE
Heating(*): approx. 7 kW
DHW output (**): approx. 32 kW - production of approx. 12 l/min of domestic hot water at 48 °C with mains input at 10 °C

(*) Temperature difference = 8 °C and WILO4 pump
(**) Boiler temperature = 60 °C

Power IVAR-SAT HLE
Heating(*): approx. 7 kW
(low temperature part)
Heating (**): approx. 5 kW
(high temperature part)
DHW 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 WILO4 pump
(**) Temperature difference = 10 °C and differential pressure at the ends of the module = 200 mbar
(***) Boiler temperature = 60 °C

APPLICATION EXAMPLE



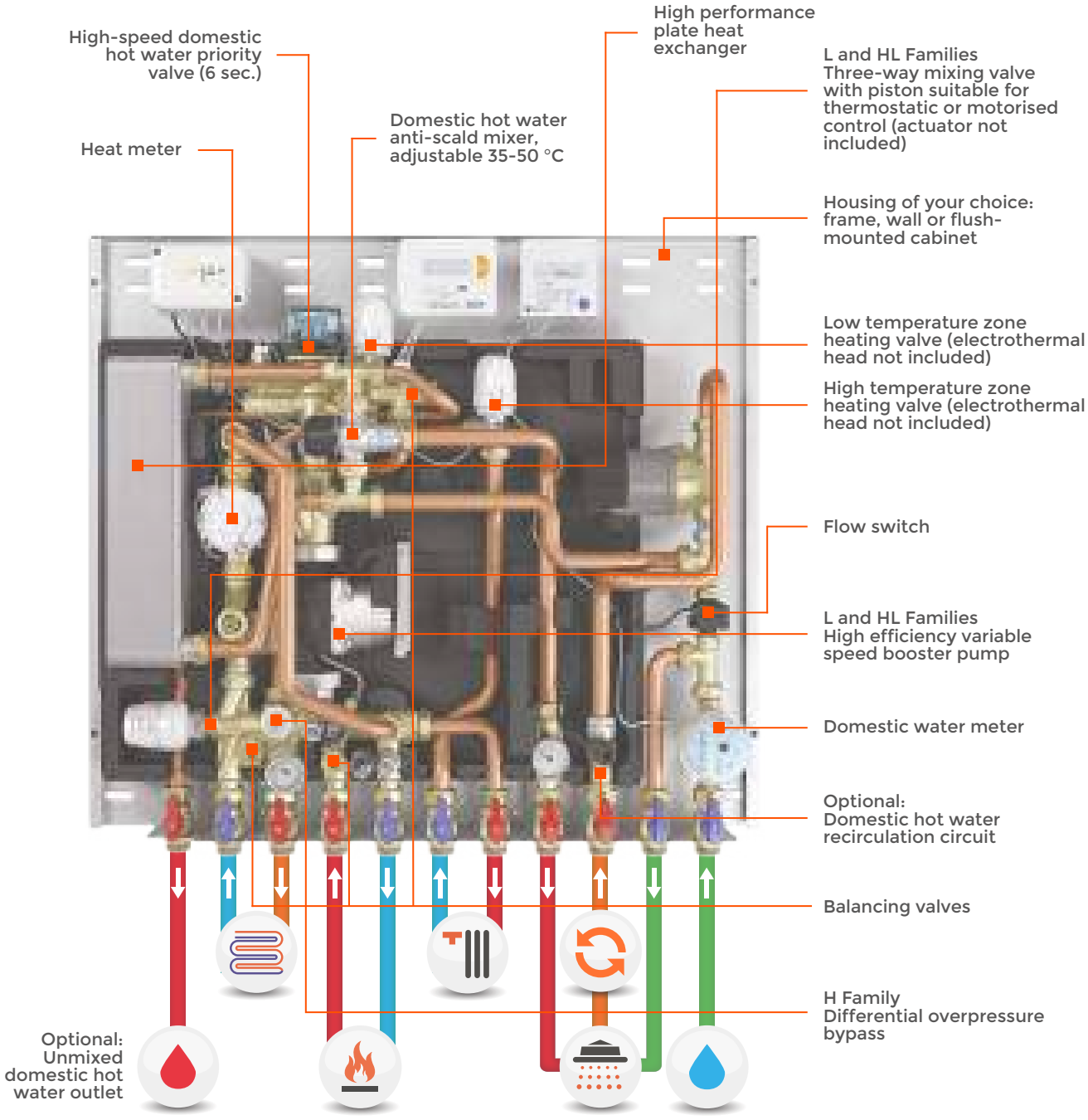
IVAR•SAT LRE (unit **A**) with domestic cold water inlet, domestic cold water outlet, recirculation inlet, domestic hot water outlet, boiler return, boiler delivery, low temperature heating delivery, low temperature heating return.

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.

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+ PLUS

- Available in the following versions: high temperature (IVARSAT H), low temperature (IVARSAT L/LE), combined (IVARSAT 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



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IVAR•SAT - SATELLITE MODULES WITH METERING DEVICES

IVARSAT-HLE



Satellite module for hybrid high-/low-temperature heating and domestic hot water preparation with variable speed electronic pump.

Code	Heat unit	Domestic water units	Additional units	Class	Packaging
506699HLE	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		UE	1
506699HLE1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	UE	1
506699HLRE	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	UE	1
506699HLRE1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	UE	1



200190 >> p. 203



200294 >> p. 203

IVARSAT-LE



Satellite module for low-temperature heating and domestic hot water preparation with variable speed electronic pump.

Code	Heat unit	Domestic water units	Additional units	Class	Packaging
506699LE	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		UE	1
506699LE1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	UE	1
506699LRE	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	UE	1
506699LRE1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	UE	1



200090 >> p. 203



200194 >> p. 203

IVARSAT-H



Satellite module for high-temperature heating and domestic hot water preparation.

Code	Heat unit	Domestic water units	Additional units	Class	Packaging
506699H	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		UE	1
506699H1	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	UE	1
506699HR	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	UE	1
506699HR1	HIGH T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	UE	1



200090 >> p. 203



200094 >> p. 203



CBL 02 >> p. 387



Electrothermal heads >> p. 444



Motors >>p. 233,241,277,287,442



T 5011 U >>p. 241,277



>> p. 417



>> p. 419

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IVARSAT-HL



Satellite module for hybrid high-/low-temperature heating and domestic hot water preparation with 3-speed standard pump.

Code	Heat unit	Domestic water units	Additional units	Class	Packaging
506699HL	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		UE	1
506699HL1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	UE	1
506699HLR	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	UE	1
506699HLR1	HIGH T. + LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	UE	1



200190 >> p. 203



200294 >> p. 203

IVARSAT-L



Satellite module for low-temperature heating and domestic hot water preparation with 3-speed standard pump.

Code	Heat unit	Domestic water units	Additional units	Class	Packaging
506699L	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX		UE	1
506699L1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT	UE	1
506699LR	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	RECIRCULATION	UE	1
506699LR1	LOW T. (Qn 1,5 m³/h)	COLD (Qn 1,5 m³/h) + MIX	HOT+RECIRCULATION	UE	1



200090 >> p. 203



200194 >> p. 203

CBL 02



Multifunctional board for IVAR-SAT satellite modules.

Code	Size	Class	Packaging
520119	230 V AC	VA	4 / 32

KIT R IVARSAT



Recirculation kit for IVAR-SAT.

Code	Class	Packaging
506409	UE	1

TEST KIT H/B IVARSAT



Heating and boiler circuits test kit for IvarSAT satellites, complete of automatic air vent valve and connecting nozzle for system loading/unloading.

Code	Class	Packaging
520046	UE	1

TEST KIT DW IVARSAT



Domestic water circuit test kit for IvarSAT satellites, complete of automatic air vent valve and connecting nozzle for system loading/unloading.

Code	Class	Packaging
520047	UE	1

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ESAT•C - MSAT•C

The **ESAT-C** and **MSAT-C** 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.

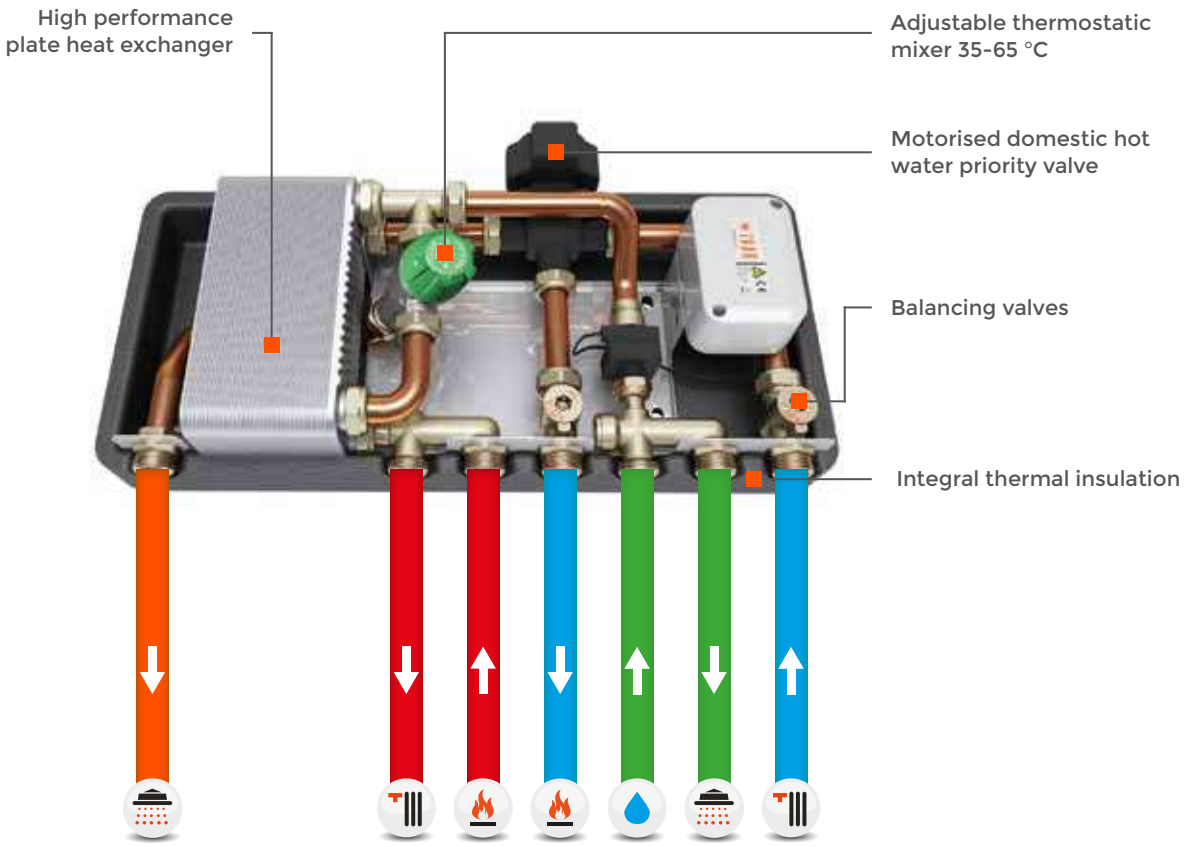
Their main feature is compactness and despite their small size ESAT-C and MSAT-C units are able to provide all the domestic hot water (DHW) for an individual residential user component.
ESAT-C and MSAT-C differ in their domestic hot water priority devices: ESAT-C is equipped with a flow switch and motorised priority valve, while the MSAT-C is a purely mechanical system with an ultra-fast thermostatic priority sensor.

ESAT-C



Satellite module for high-temperature heating and domestic hot water preparation (motorized priority valve)

Code	Size	Class	Packaging
506703	3/4" M	UE	1



Power ESAT-C
Heating(*): approx. 16 kW
DHW 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 differential pressure at the ends of the module = 200 mbar
(**) Differential pressure at the ends of the module = 200 mbar and boiler temperature = 60 °C

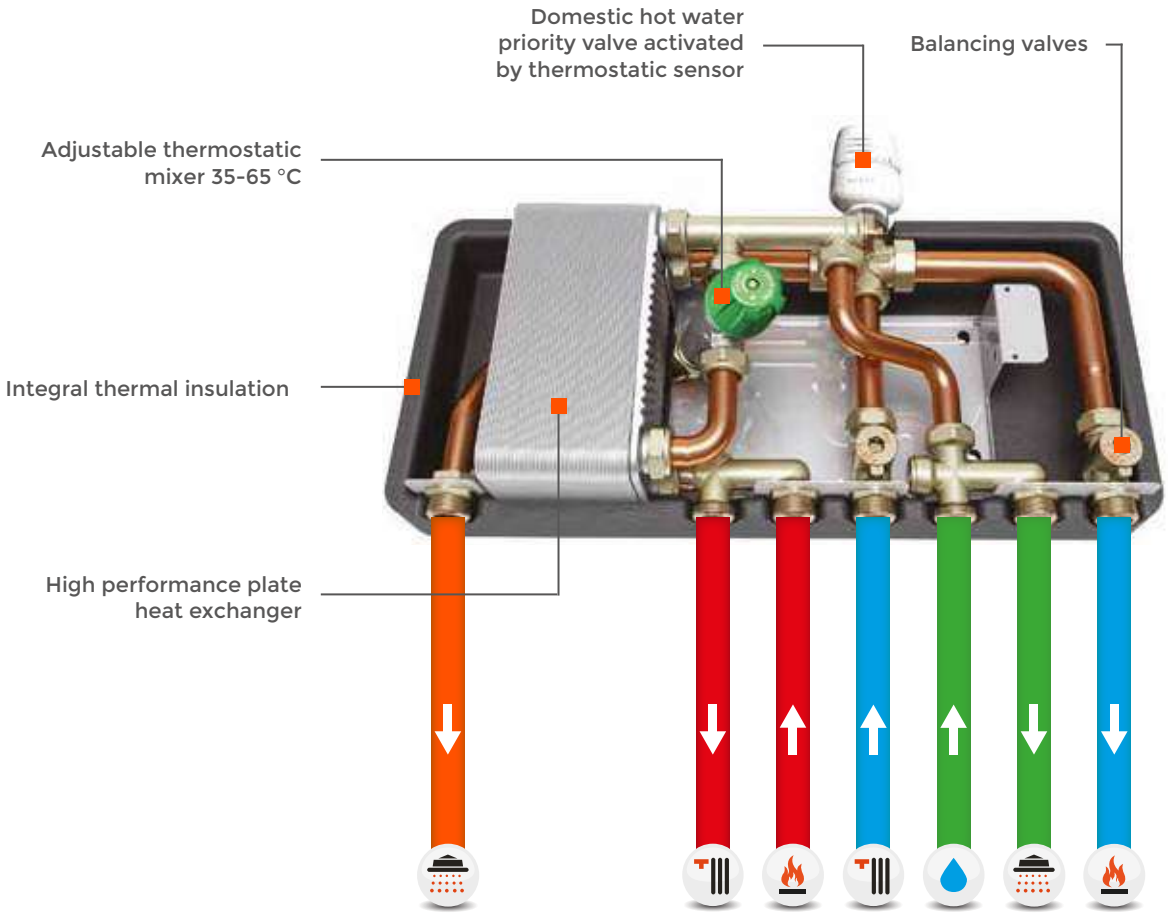
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MSAT-C



Satellite module for high-temperature heating and domestic hot water preparation (thermostatic priority valve)

Code	Size	Class	Packaging
506369	3/4" M	UE	1



Power MSAT-C
Heating(*): circa 12 kW
DHW output (**): approx. 29 kW - production of approx. 11 l/min of domestic hot water at 48 °C with mains input at a 10 °C

(*) Temperature difference = 10 °C and differential pressure at the ends of the module = 200 mbar
(**) Differential pressure at the ends of the module = 200 mbar and boiler temperature = 60 °C

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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.

SIZES (*)
30(**), 35, 40(**), 45, 50(**), 60, 70(**), 80, 90(**), 100 l/min

(*) Performance is calculated with a primary inlet temperature of 60 °C and a secondary inlet temperature of 10-45 °C

(**) With mixing valve on the primary circuit

+ PLUS

- A plate heat exchanger allows for highly efficient heat transfer and keeps the two fluids separate.
- No need to store DHW, which is subject to specific temperature, hygiene and maintenance requirements.
- The outlet temperature is controlled electronically and the setpoint can be adjusted by a control unit that modulates the primary flow rate to maintain a stable supply temperature.
- Reduced risk of Legionella growth.
- Just plug it in and the system is ready to use!



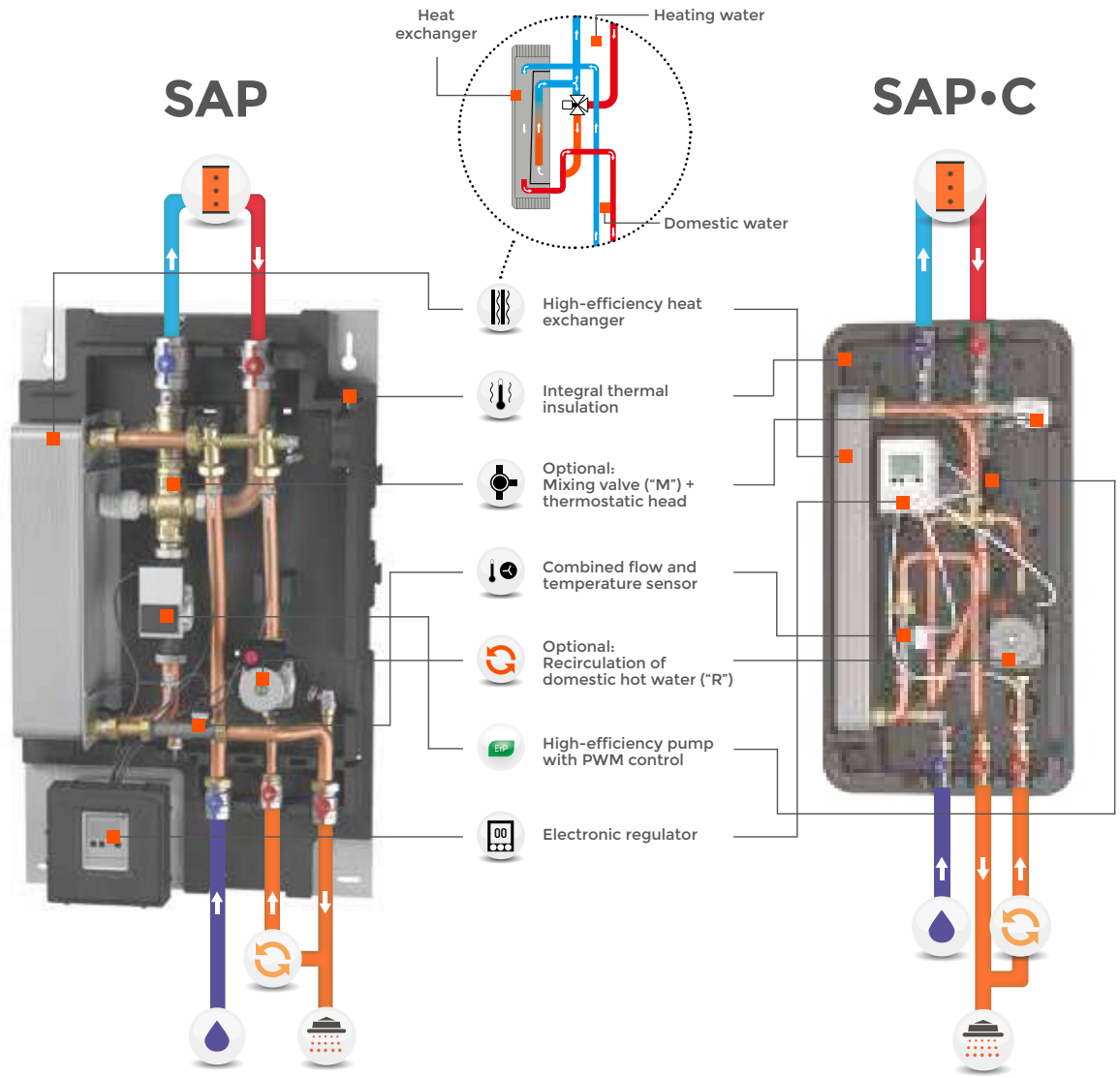
SAP CONFIGURATOR

Configure the SAP model that best suits the needs of the plant.

Go to the dedicated area on our website:

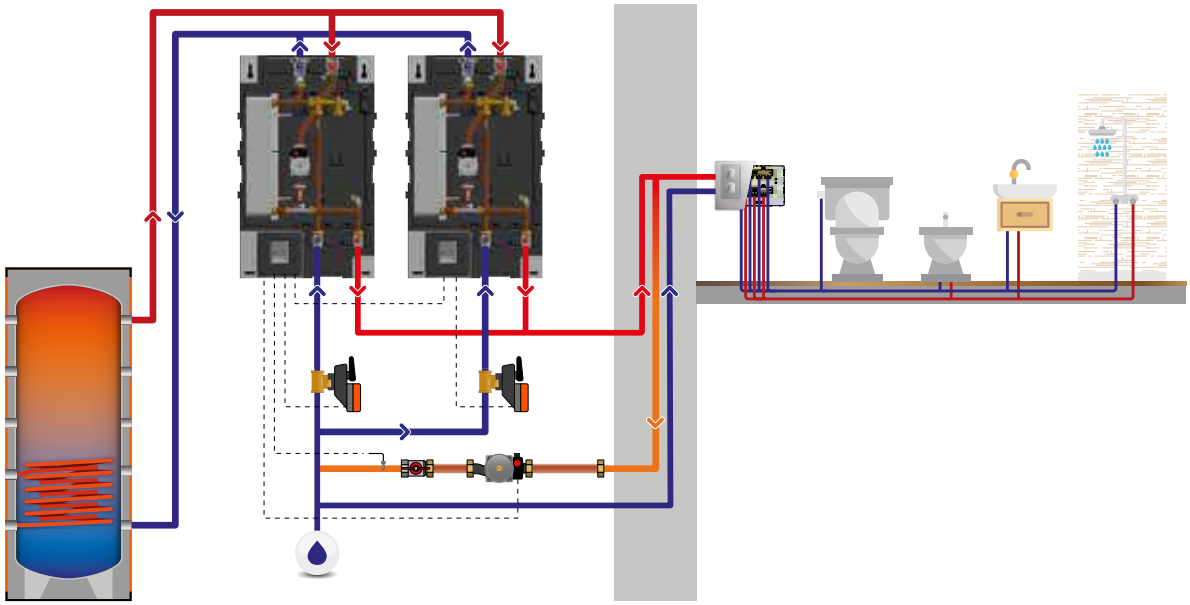
www.ivar-group.com

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POSSIBILITY OF CONNECTION 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 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.



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SAP - SAP•C - DOMESTIC HOT WATER PRODUCERS

SAP



1.020 × 640 × 275 mm

Domestic hot water producer.

Code	Domestic water units	Pump type	Erp	Included components	Class	Packaging
SAP-30M	HOT 30 l/min	3-speed	-	Mixing valve	Z8	1
SAP-30MR	HOT 30 l/min	3-speed	-	Mixing valve - Recirculation	Z8	1
SAP-35	HOT 35 l/min	3-speed	-		Z8	1
SAP-35R	HOT 35 l/min	3-speed	-	Recirculation	Z8	1
SAP-40M	HOT 40 l/min	3-speed	-	Mixing valve	Z8	1
SAP-40MR	HOT 40 l/min	3-speed	-	Mixing valve - Recirculation	Z8	1
SAP-45	HOT 45 l/min	3-speed	-		Z8	1
SAP-45R	HOT 45 l/min	3-speed	-	Recirculation	Z8	1
SAP-50M	HOT 50 l/min	3-speed	-	Mixing valve	Z8	1
SAP-50MR	HOT 50 l/min	3-speed	-	Mixing valve - Recirculation	Z8	1
SAP-60	HOT 60 l/min	3-speed	-		Z8	1
SAP-60R	HOT 60 l/min	3-speed	-	Recirculation	Z8	1
SAP-70M	HOT 70 l/min	3-speed	-	Mixing valve	Z8	1
SAP-70MR	HOT 70 l/min	3-speed	-	Mixing valve - Recirculation	Z8	1
SAP-80	HOT 80 l/min	3-speed	-		Z8	1
SAP-80R	HOT 80 l/min	3-speed	-	Recirculation	Z8	1
SAP-90M	HOT 90 l/min	3-speed	-	Mixing valve	Z8	1
SAP-90MR	HOT 90 l/min	3-speed	-	Mixing valve - Recirculation	Z8	1
SAP-100	HOT 100 l/min	3-speed	-		Z8	1
SAP-100R	HOT 100 l/min	3-speed	-	Recirculation	Z8	1
SAP-30ME	HOT 30 l/min	Variable speed (PWM)	✓	Mixing valve	Z8	1
SAP-30MRE	HOT 30 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	Z8	1
SAP-35E	HOT 35 l/min	Variable speed (PWM)	✓		Z8	1
SAP-35RE	HOT 35 l/min	Variable speed (PWM)	✓	Recirculation	Z8	1
SAP-40ME	HOT 40 l/min	Variable speed (PWM)	✓	Mixing valve	Z8	1
SAP-40MRE	HOT 40 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	Z8	1
SAP-45E	HOT 45 l/min	Variable speed (PWM)	✓		Z8	1
SAP-45RE	HOT 45 l/min	Variable speed (PWM)	✓	Recirculation	Z8	1
SAP-50ME	HOT 50 l/min	Variable speed (PWM)	✓	Mixing valve	Z8	1
SAP-50MRE	HOT 50 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	Z8	1
SAP-60E	HOT 60 l/min	Variable speed (PWM)	✓		Z8	1
SAP-60RE	HOT 60 l/min	Variable speed (PWM)	✓	Recirculation	Z8	1
SAP-70ME	HOT 70 l/min	Variable speed (PWM)	✓	Mixing valve	Z8	1
SAP-70MRE	HOT 70 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	Z8	1
SAP-80E	HOT 80 l/min	Variable speed (PWM)	✓		Z8	1
SAP-80RE	HOT 80 l/min	Variable speed (PWM)	✓	Recirculation	Z8	1
SAP-90ME	HOT 90 l/min	Variable speed (PWM)	✓	Mixing valve	Z8	1
SAP-90MRE	HOT 90 l/min	Variable speed (PWM)	✓	Mixing valve - Recirculation	Z8	1
SAP-100E	HOT 100 l/min	Variable speed (PWM)	✓		Z8	1
SAP-100RE	HOT 100 l/min	Variable speed (PWM)	✓	Recirculation	Z8	1

KIT R SAP



Recirculation kit for SAP.

Code	Module	Included components	Class	Packaging
502305	SAP-##MR(E) / SAP-##R(E) ≤ 60 l/min	2-speed pump for sanitary applications	Z8	1
502304	SAP-##MR(E) / SAP-##R(E) > 60 l/min	2-speed pump for sanitary applications	Z8	1

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SAP-C



ErP

770 × 410 × 220 mm

Compact domestic hot water producer.

Code	Domestic water units	Pump type	Included components	Class	Packaging
SAP-C-25ME	HOT 25 l/min	Variable speed (PWM)	Mixing valve	Z8	1
SAP-C-25MRE	HOT 25 l/min	Variable speed (PWM)	Mixing valve - Recirculation	Z8	1
SAP-C-30E	HOT 30 l/min	Variable speed (PWM)		Z8	1
SAP-C-30RE	HOT 30 l/min	Variable speed (PWM)	Recirculation	Z8	1
SAP-C-35ME	HOT 35 l/min	Variable speed (PWM)	Mixing valve	Z8	1
SAP-C-35MRE	HOT 35 l/min	Variable speed (PWM)	Mixing valve - Recirculation	Z8	1
SAP-C-40E	HOT 40 l/min	Variable speed (PWM)		Z8	1
SAP-C-40RE	HOT 40 l/min	Variable speed (PWM)	Recirculation	Z8	1

KIT R SAP-C



Recirculation kit for SAP-C.

Code	Module	Included components	Class	Packaging
501626	SAP-C-##MRE / SAP-C-##RE	2-speed pump for sanitary applications	Z8	5

KIT MIX SAP-C



Thermostatic mixing valve for compact domestic hot water producer.

Code	Size	Range	Length	Class	Packaging
501625	1" - M30 x 1,5	20-60 °C	2 m	Z8	2 / 8

PT 1000



Temperature probe with silicone cable for SAP / SAP-C modules and IKK02, IKK03, IKLE01, LEGIO-HUB controllers.

Code	Type	Max operating temp.	Length	Class	Packaging
81215	Contact	180 °C	1.50 m	Z8	1

VS SAP 01



Quick-opening 2-way ball valve suitable to domestic water applications.

Code	Ways	Size	Class	Packaging
IKR415D	2	G 1" (DN 15) - KVs 12	Z8	1

VS SAP 02



Motor for quick-opening 2-way ball valve suitable to domestic water applications.

Code	Size	Class	Packaging
IKLRQ24A	24 V AC	Z8	1
IKLRD230A	230 V AC	Z8	1

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VFS

Measuring block for the management of domestic hot water producers in series control.



Code	Size	Range	Class	Packaging
78040	3/4" M x 1" F	2-40 l/min	Z8	1
78100	1" M x 1" F	5-100 l/min	Z8	1
78400	1"1/2 M x 1"1/2 F	20-400 l/min	Z8	1

IKK01

Electronic control unit for the management of domestic hot water producers in series control.



Code	Size	Class	Packaging
IKK01	Max 4 modules	Z8	1

IKK02

Electronic control unit for the management of domestic hot water producers in series control, sanitary recirculation circuit and Antilegionella function. PT 1000 temperature probe included.



Code	Size	Class	Packaging
IKK02	Max 4 modules	Z8	1

IKK03

Electronic control unit for the management of domestic hot water producers in series control, sanitary recirculation circuit and Antilegionella function. PT 1000 temperature probe and measuring block DN 50 (2-1000 l/min) included.



Code	Size	Class	Packaging
IKK03	Max 9 modules	Z8	1

MGW 01

Multigateway for remote management of domestic hot water producers.



Code	Class	Packaging
70009	Z8	1

CM 01

CAN-BUS cable with Molex terminals for Multigateway connection.



Code	Length	Class	Packaging
89213	2.90 m	Z8	1

IFWC3

Spare controller for SAP modules with 3-speed standard pump.



Code	Module	Class	Packaging
43000	SAP-xx	Z8	1

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From now on, it is possible to operate our instantaneous domestic water producers in series more easily and economically: with our new integration system, the control units of each SAP communicate with each other and are activated for DHW production.

Our SAP will always be visible and connected thanks to the new IVAR CONNECT system that allows you to remote data and see the status of the plant and its control units in real time.

The new system allows the SAP control units to communicate with each other and activate for DHW production, for both single and in series operation.

IVAR connect

GET IT ON Google Play

Download on the App Store

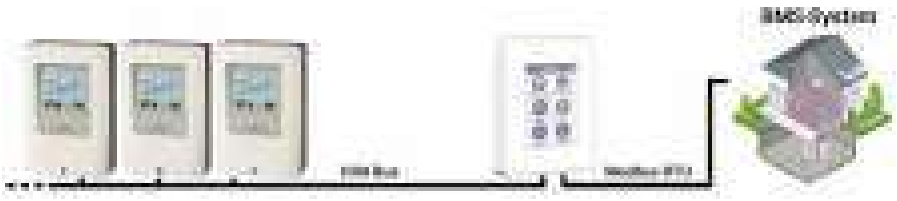




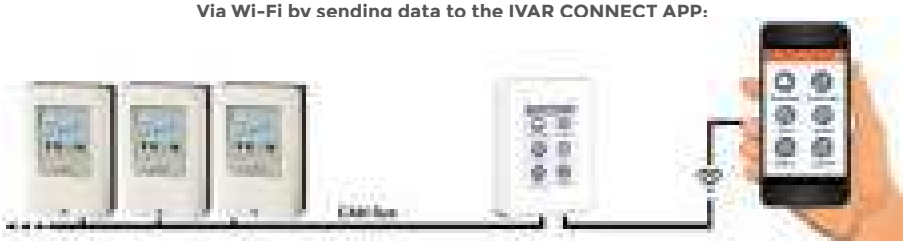
DIRECT CONTROL

REMOTE CONTROL

CAN-Bus - BMS connection



Via Wi-Fi by sending data to the IVAR CONNECT APP:



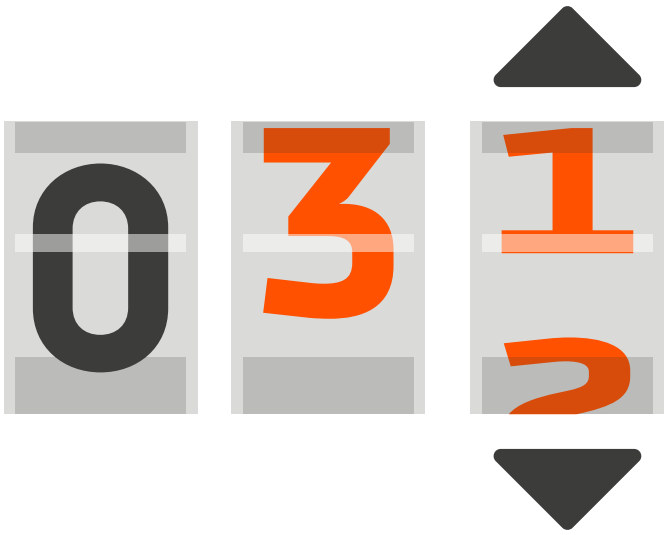
Via Wi-Fi by sending data to the CLOUD:



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METERING SYSTEMS



INDEX



2-way modules for direct metering EQUICOMPACT® 400



2-way modules for direct metering EQUIDYNAMIC 404



2-way modules for direct metering MC4 406



3-way modules for direct metering EQUIMETER 408



3-way modules for direct metering MC 410



Direct metering modules for special applications 411



Modules for domestic water direct metering 412



Accessories for direct metering modules 414



Meters for direct metering 417



Devices for data centralisation 422



EQUICOMPACT®

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.

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 cabinet

- AC 860 B: standard version with a galvanised sheet-metal cover painted white;
- AC 860 L: version with sheet-metal structure and cover set up for plastering;
- AC 860 IB (included for modules with code suffix CIB): version with insulated polypropylene structure and sheet metal cover painted white

Power(*)
EQUICOMPACT® with Kv=2.5: approx. 16 kW
EQUICOMPACT® with Kv=3.0: approx. 19 kW

(*) Thermal gradient = 10 °C; differential pressure at ends of module = 300 mbar

+ PLUS

- 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
- Valve body in monobloc brass

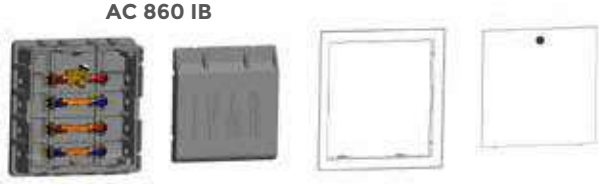
TYPES OF CABINETS AVAILABLE FOR EQUICOMPACT® MODULES

AC 860 B



AC 860 L

AC 860 IB



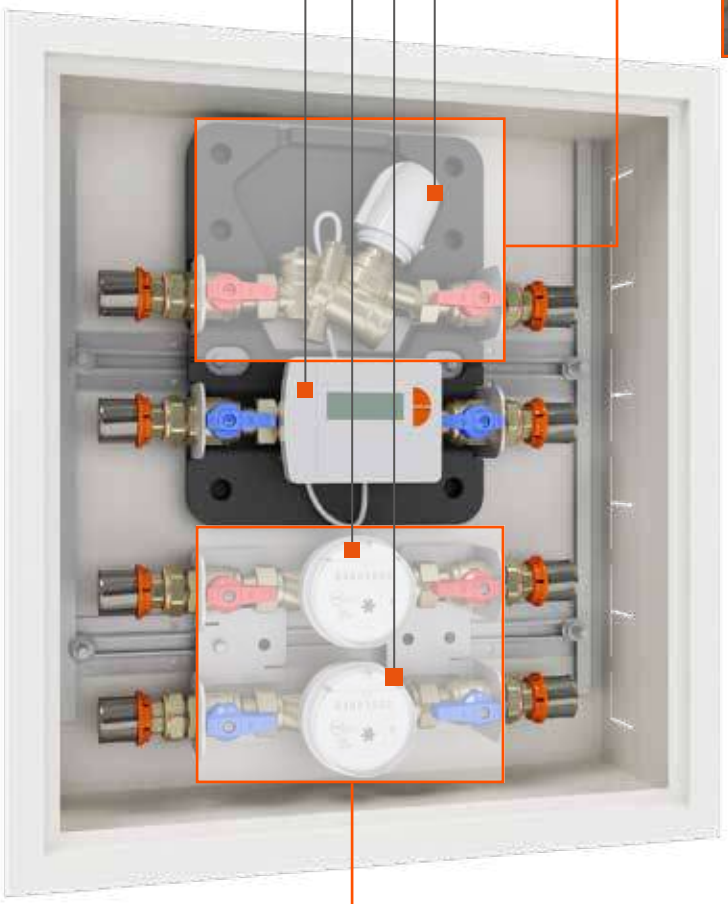
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Domestic hot water meter (not included)

Domestic cold water meter (not included)

Electrothermal head (not included)

Heat meter (not included)



Control block



Thermally insulated heat block

Filtro 500 micron

2-way piston zone valve (electrothermal head not included)

Well for heat meter inlet probe

Well for differential pressure regulator (to be installed on the return line)

Balancing selector with slot for lead seal

Components that can be cut off using ball valves that can be lead-sealed

Domestic water lines

The EQUICOMPACT® heat block can be integrated with one or two domestic water lines

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2-WAY MODULES FOR DIRECT METERING EQUICOMPACT®

EQCP15 S - EQCP25 S

Heat unit with brackets for Equicompact metering module for heating and cooling systems.



Code	Heat unit	Suitable Cabinet	Class	Packaging
506575S	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	UA	1
506576S	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	UA	1



AC 860 B / L >> p. 204



>> p. 444



Heat meter >>p. 417

EQCP15 SI - EQCP25 SI

Heat unit with brackets and insulating cover for Equicompact metering module for heating and cooling systems.



Code	Heat unit	Insulation	Suitable Cabinet	Class	Packaging
506575SI	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	✓	AC 860 B - AC 860 L	UA	1
506576SI	Kv 3,00 (Qn 2,5 m³/h) - G 3/4"	✓	AC 860 B - AC 860 L	UA	1



AC 860 B / L >> p. 204



>> p. 444



Heat meter >>p. 417

EQCP15 I

Heat unit for Equicompact® metering module for heating and cooling systems.



Code	Heat unit	Suitable Cabinet	Class	Packaging
506575	Kv 2,50 (Qn 1,5 m³/h) - G 3/4"	AC 860 IB	UA	1



AC 860 IB >> p. 204



>> p. 444



Heat meter >>p. 417

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AC 112



Splitter fittings kit for Equicompact®/Equidynamic modules outakes.

Code	Size	Class	Packaging
509148	3/4"	UA	1

EQCP05



2-way valve for Equicompact® metering module.

Code	Size	Class	Packaging
506596	G 3/4"	UA	1 / 24

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EQUIDYNAMIC

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.

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

- Suitable for applications with electronic variable displacement pumps
- Equipped with PICV valve for flow rate dynamic balancing
- Extremely compact for installation in any compartment

TYPES OF CABINETS AVAILABLE FOR EQUIDYNAMIC MODULES

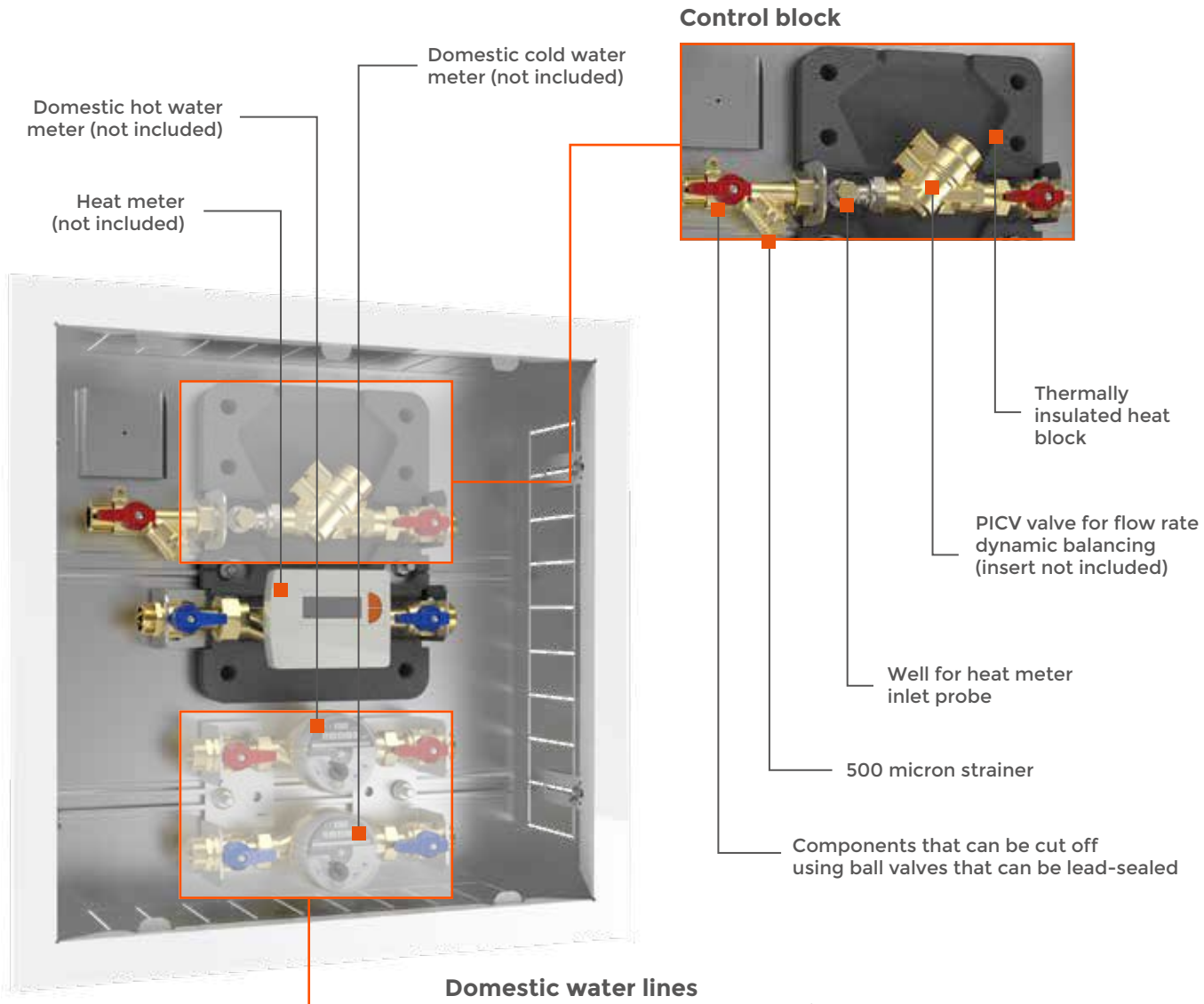


AC 860 B



AC 860 L

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EQDYN15 S - EQDYN25 S

Heat unit with brackets for Equidynamic metering module for heating and cooling systems.



Code	Heat unit	Suitable Cabinet	Class	Packaging
506632S	Self-balancing (Qn 1,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	UA	1
506633S	Self-balancing (Qn 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	UA	1

EQDYN15 SI - EQDYN25 SI

Heat unit with brackets and insulating cover for Equidynamic metering module for heating and cooling systems.



Code	Heat unit	Insulation	Suitable Cabinet	Class	Packaging
506632SI	Self-balancing (Qn 1,5 m³/h) - G 3/4"	✓	AC 860 B - AC 860 L	UA	1
506633SI	Self-balancing (Qn 2,5 m³/h) - G 3/4"	✓	AC 860 B - AC 860 L	UA	1


AC 860 B / L >> p. 204


Heat meter >> p. 417


PICC 03 >>p. 342

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MC4

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.

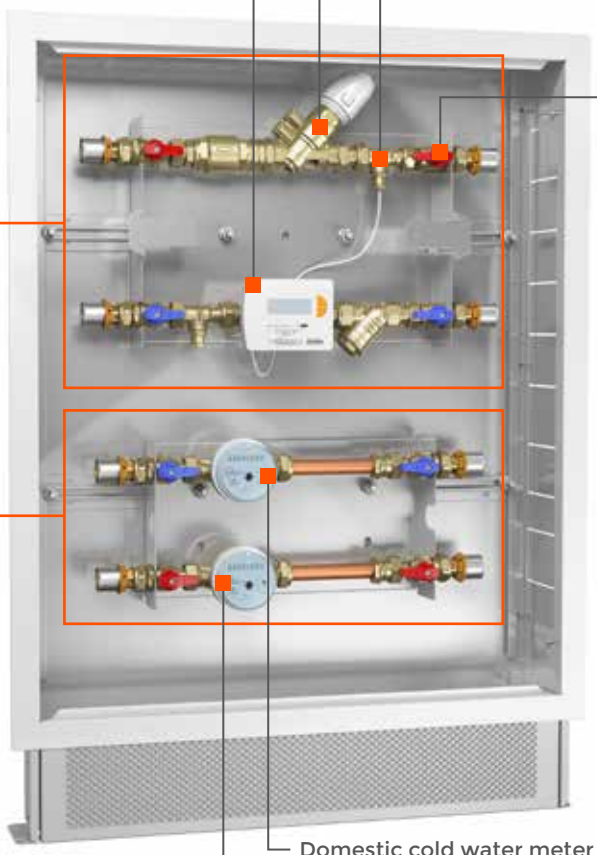
This device allows you to choose among 41 flow rate values and assures stability; it can also be managed by an on/off or proportional 0-10 V electrothermal actuator which allows it to be modulated/limited as the demand of the utility varies.

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".

+ 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



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MC45



MC4 metering module for heating and cooling systems with unit for heat only.

Code	Heat unit	Suitable Cabinet	Cabinet width	Class	Packaging
506715	Qn 1,5 m³/h – G 3/4"	200686	600 mm	UA	1
506649	Qn 2,5 m³/h – G 1"	200186	700 mm	UA	1



>> p. 203



Heat meter >> p. 417



PICC 03 (MC 3/4") / PICC 13 (MC 1") >>p. 342

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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 m³/h or 2.5 m³/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, pre-assembled or in a jig with separate components. The cabinet and all the electronic components are supplied separately; electronic devices are 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.

Power(*)
EQUIMETER with Kv=2,25: approx. 14 kW
EQUIMETER with Kv=2,75: approx. 17 kW

(*) Thermal gradient = 10 °C; differential pressure at ends of module = 300 mbar

+ PLUS

- 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
- Body in monobloc brass

FOCUS: patented balancing 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).

Fig. 1

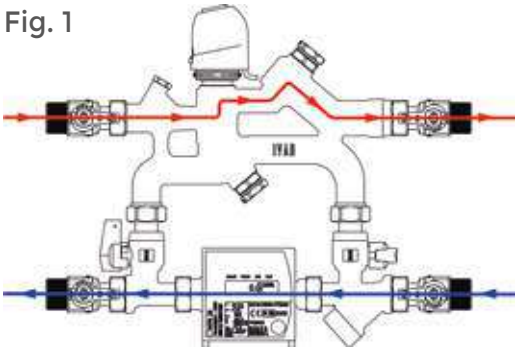


Fig. 2

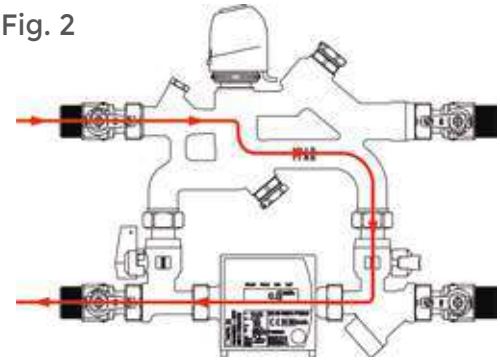
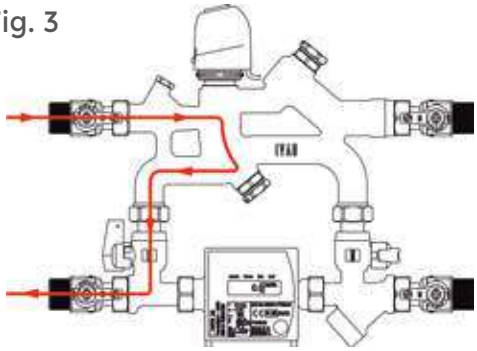


Fig. 3



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Domestic water lines
Customizable with no, 1, 2 or 3 meters. Available with 2 domestic water lines and anti-scald thermostatic mixer.

Domestic water meters (not included)

Control block

3-way piston zone valve (electrothermal head not included)

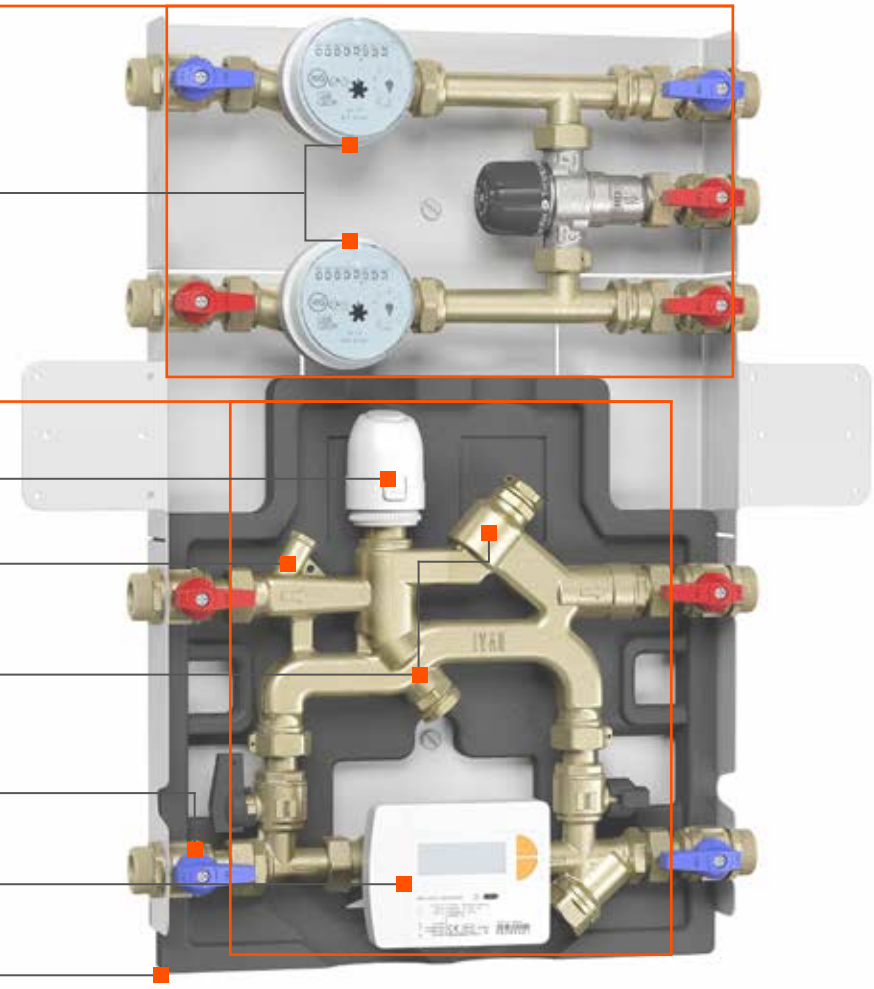
Well for heat meter inlet probe

Inlet and bypass balancing valves

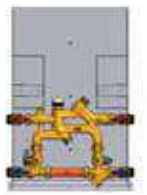
Components can be shut off with ball valves

Heat meter (not included)

Thermally insulated heat block



EQM15 - EQM25



Equimeter metering module for heating and cooling systems with unit for heat only

Code	Heat unit	Suitable Cabinet	Cabinet width	Class	Packaging
506380	Kv 2,25 (Qn 1,5 m³/h) - G 3/4"	200085	550 mm	UA	1
506381	Kv 2,75 (Qn 2,5 m³/h) - G 3/4"	200085	550 mm	UA	1



>> p. 204



>> p. 444



Heat meter >>p. 417

AC 110



Splitter fittings kit for Equimeter modules outakes.

Code	Size	Class	Packaging
509131	3/4"	UA	1

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MC1 - MC2

MC s 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:

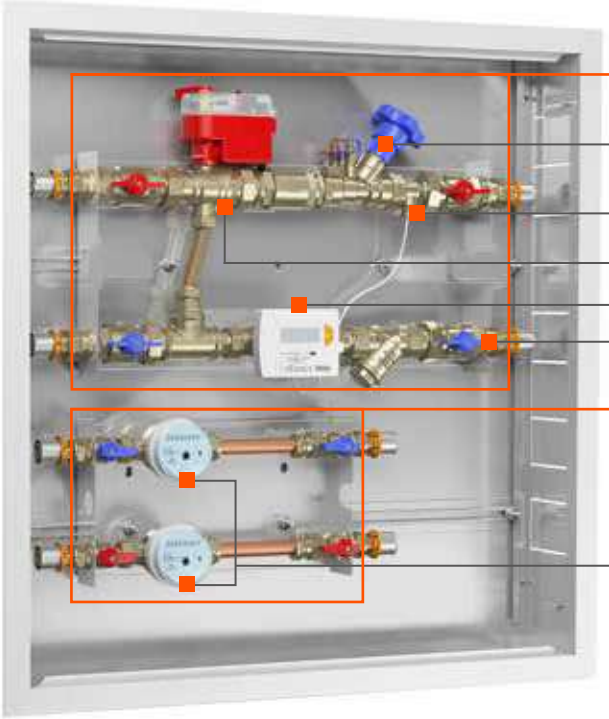
- MC1 has G 1" connections and can house 2,5 m³/h heat meters;
- MC2 is equipped with G 1" 1/4 connections and can house larger meters with G 1" 1/4 connections and a nominal flow rate of 3.5 or 6.0 m³/h.

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.
The cabinet and all the electronic components are supplied separately; electronic devices are 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.

Power(*)
MC with Kv=3,5: approx. 22 kW
MC with Kv=7,0(**): approx. 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 m³/h



Control block

Valve for flow rate static balancing

Well for heat meter inlet probe

Motorized zone valve

Heat meter (not included)

Components can be shut 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.

Domestic water meters (not included)

MC15 - MC25



MC1/MC2 metering module for heating and cooling systems with unit for heat only
DN 40 and DN 50 MC modules are available on request.

Code	Heat unit	Suitable Cabinet	Cabinet width	Class	Packaging
506509	Kv 3,50 (Qn 2,5 m³/h) - G 1"	200090	700 mm	UA	1
506519	Kv 7,00 (Qn 3,5 - 6 m³/h) - G 1"1/4	200190	900 mm	UA	1



>> p. 203



Heat meter for G 1" modules >> p. 417



Heat meter for G 1"1/4 modules >>p. 420



>> p. 443

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SPECIAL MODULES

IVAR can supply a wide selection of prefabricated systems to meet all installation requirements.
Our IVAR PREFABs are manufactured according to customer specifications and requirements: technical modules for single-family homes, semi-detached houses, apartment blocks and large commercial buildings.

There are many configuration possibilities: drinking water distribution systems, thermal systems with direct or separate water heating for floor or radiator systems, combined systems with instantaneous DHW production. All configurations are complete with metering systems for monitoring energy consumption.

IVAR PREFAB are assembled and tested in our factory so that they are ready for installation on site. This guarantees optimal planning and reduced installation time.
We know how important technical support is. Our LINEA ARANCIO will support the customer or technical designer in design, logistics, up to after-sales service.



+ PLUS

- Maximum security in the design phase
- Construction delays minimised
- Quick and easy installation of systems
- Reduced installation costs
- Prefabricated and tested in our factory: guarantee of a higher quality standard than on-site assembly
- Space-saving: optimisation of installation area

IVAR PREFAB SYSTEMS



Fully customisable pre-assembled modules for technical / domestic water distribution, and metering.

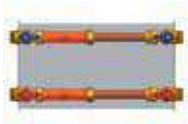
IVAR PREFAB SYSTEMS

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MODULES FOR DW METERING

MC3

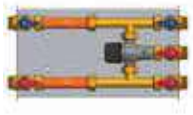
MC3 metering module with units for domestic hot water and domestic cold water



Code	Domestic water units	Suitable Cabinet	Cabinet width	Class	Packaging
506520	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	200086	500 mm	UA	1
506521	HOT+COLD (Q3 4 m³/h) - G 1"	200086	500 mm	UA	1

MC31

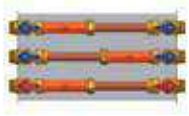
MC3 metering module with units for domestic hot water, domestic cold water and thermostatic mixer



Code	Domestic water units	Suitable Cabinet	Cabinet width	Class	Packaging
506522	HOT+COLD (Q3 2,5 m³/h) + MIX - G 3/4"	200086	500 mm	UA	1

MC32

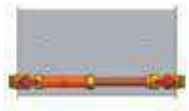
MC3 metering module with units for domestic hot water, domestic cold water and dual cold water



Code	Domestic water units	Suitable Cabinet	Cabinet width	Class	Packaging
506523	HOT+COLD+DUAL (Q3 2,5 m³/h) - G 3/4"	200086	500 mm	UA	1
506524	HOT+COLD+DUAL (Q3 4 m³/h) - G 1"	200086	500 mm	UA	1

MC33

MC3 metering module with unit for domestic hot water only



Code	Domestic water units	Suitable Cabinet	Cabinet width	Class	Packaging
506525	HOT (Q3 2,5 m³/h) - G 3/4"	200086	500 mm	UA	1
506526	HOT (Q3 4 m³/h) - G 1"	200086	500 mm	UA	1

MC34

MC3 metering module with unit for domestic cold water only



Code	Domestic water units	Suitable Cabinet	Cabinet width	Class	Packaging
506527	COLD (Q3 2,5 m³/h) - G 3/4"	200086	500 mm	UA	1
506528	COLD (Q3 4 m³/h) - G 1"	200086	500 mm	UA	1



200086 >> p. 203



DHW meter >> p. 419



DCW meter >>p. 419

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MC3A



Domestic hot water and domestic cold water units with brackets for Equicompact/Equidynamic metering modules.

Code	Domestic water units	Suitable Cabinet	Class	Packaging
506627S	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	UA	1

MC33A



Domestic hot water unit with brackets for Equicompact®/Equidynamic metering modules.

Code	Domestic water units	Suitable Cabinet	Class	Packaging
506628S	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	UA	2

MC34A



Domestic cold water unit with brackets for Equicompact®/Equidynamic metering modules.

Code	Domestic water units	Suitable Cabinet	Class	Packaging
506629S	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 B - AC 860 L	UA	2



AC 860 B / L >> p. 204



DHW meter >> p. 419



DCW meter >>p. 419

MC3A I



Domestic hot water and domestic cold water units for Equicompact® metering module.

Code	Domestic water units	Suitable Cabinet	Class	Packaging
506627	HOT+COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 IB	UA	1

MC33A I



Domestic hot water unit for Equicompact® metering module.

Code	Domestic water units	Suitable Cabinet	Class	Packaging
506628	HOT (Q3 2,5 m³/h) - G 3/4"	AC 860 IB	UA	12

MC34A I



Domestic cold water unit for Equicompact® metering module.

Code	Domestic water units	Suitable Cabinet	Class	Packaging
506629	COLD (Q3 2,5 m³/h) - G 3/4"	AC 860 IB	UA	12



AC 860 IB >> p. 204



DHW meter >> p. 419



DCW meter >>p. 419

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ACCESSORIES FOR METERING MODULES

In a building with a centralised system, the sanitary recirculation circuit is usually kept only on the risers, in accordance with UNI 9182 standard which provides for water to be available at each withdrawal point within 30 seconds. However, in large residential units it is necessary to bring the recirculation connection even closer to the consumers.

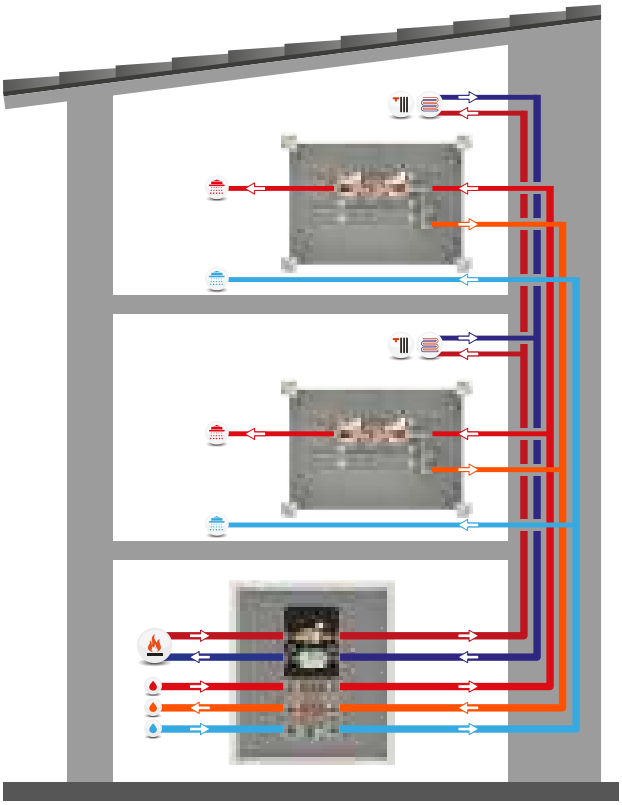
CALORING was created to meet this specific need: it allows the domestic hot water meter to be moved inside the flat to minimise the volume of water needed to reach the draw-off point and makes hot water available in the shortest possible time, without increasing consumption and expenditure.

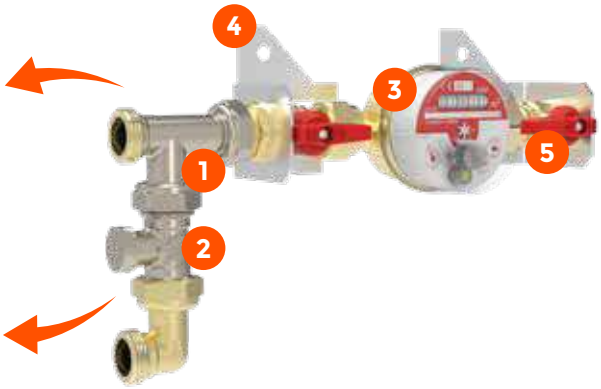
CALORING is supplied with G ¾ connections - DHW (Q3 2,5 m³/h).

The kit consists of a tee (1) upstream of the meter, which diverts the flow of water into the recirculation branch when there is no demand for DHW in the flat; a lockshield (2) guarantees the installer the possibility of balancing the system even when the circuit is not active; it is set-up to house a DHW meter (3); the mounting brackets (4) and ball valves to intercept the circuit (5) complete the kit.

+ PLUS

- Reduction in the volume of water required to reach the point of delivery.
- Hot water available in the shortest possible time.
- Water saving.





CALORING



Recirculation kit for Equimeter, Equicompact, Equidynamc, MC1, MC2, MC4.

Code	Domestic water units	Class	Packaging
KSB0163	HOT (Q3 2,5 m³/h) - G 3/4"	UA	1



DHW meter >>p. 419

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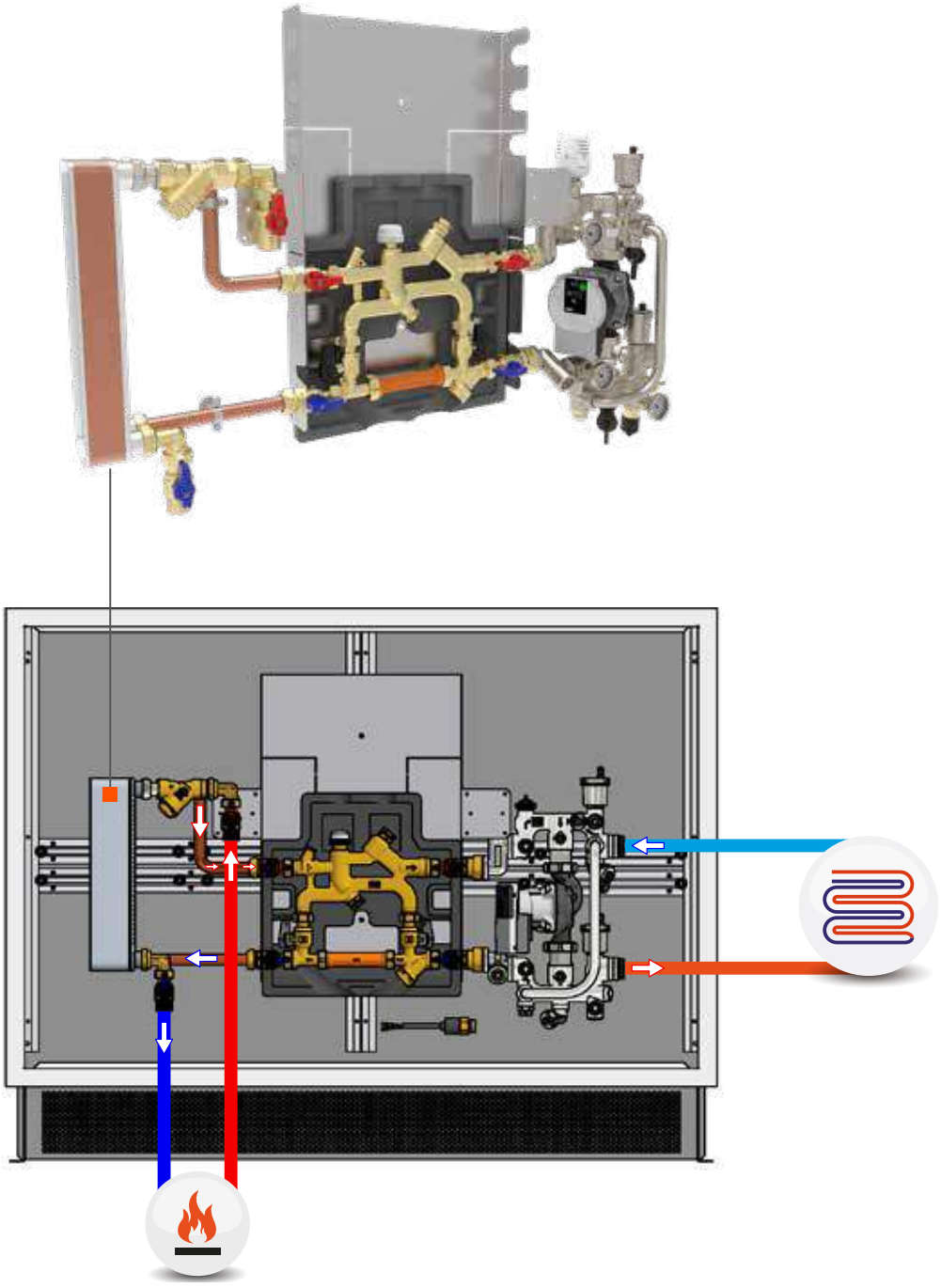
SC 01 EQM



Heat exchanger kit for EQUIMETER.

Code	Class	Packaging
502021	UA	1

INSTALLATION LAYOUT



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ACCESSORIES FOR DIRECT METERING MODULES

AMCD 01



Insulation shell for heat metering unit.

Code	Module	Class	Packaging
506704	EQM series	UA	2
506219	MC1 series	UA	2 / 2
502510	MC2 series	UA	1
506384	MC4 series	UA	1

AMEQCP 01



Insulation shell for heat metering unit for Equicompact®/Equidynamic modules.

Code	Module	Class	Packaging
506666	EQCP15 - EQCP25 - EQDYN15 - EQDYN25	UA	5

AC 659 NR



Female-female straight ball valve with swivelling nut and well for temperature probe, butterfly operation (red).

Code	Size	Color	Class	Packaging
501901NR	3/4" F		NO	10 / 40

M 01



Temperature probe well for HMR-M and US-M heat meters.

Code	Size	Class	Packaging
00M100001	M10 x 1 - Plastic	UG	1
00M100003	M10 x 1 - Brass	UG	1

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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 or AMR radio.
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



Mechanical heat meter with M-BUS output and two pulsed inputs for cabinet installation.

Code	Reading	Size	Qp	Type	Class	Packaging
HMR15MFI	M-BUS + 2 pulse IN	G 3/4"	1.50 m³/h	Heat/Cold	UG	1
HMR20MFI	M-BUS + 2 pulse IN	G 1"	2.50 m³/h	Heat/Cold	UG	1

HMR-R



Mechanical heat meter with radio AMR output and three pulsed inputs for cabinet installation.

Code	Reading	Size	Qp	Type	Class	Packaging
HMR15RFI-E	Radio (WALK-BY / AMR) + 3 pulse IN	G 3/4"	1.50 m³/h	Heat/Cold	UG	1
HMR20RFI-E	Radio (WALK-BY / AMR) + 3 pulse IN	G 1"	2.50 m³/h	Heat/Cold	UG	1

US-M



Ultrasonic heat meter with M-BUS output and three pulsed inputs for cabinet installation.

Code	Reading	Size	Qp	Type	Class	Packaging
US15MFI-E	M-BUS + 3 pulse IN	G 3/4"	1.50 m³/h	Heat/Cold	UG	1
US20MFI-E	M-BUS + 3 pulse IN	G 1"	2.50 m³/h	Heat/Cold	UG	1

US-R



Ultrasonic heat meter with radio AMR output for cabinet installation.

Code	Reading	Size	Qp	Type	Class	Packaging
US15QRF	Radio (WALK-BY / AMR)	G 3/4"	1.50 m³/h	Heat/Cold	UG	1
US20QRF	Radio (WALK-BY / AMR)	G 1"	2.50 m³/h	Heat/Cold	UG	1

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CV 01



Cable for connecting HMR-M meter to M-BUS line.

Code	Reading	Class	Packaging
520416	Direct reading >> M-BUS	UG	1

CV 02



Cable for connecting two volumetric domestic water meters to HMR-M heat meter.

Code	Reading	Class	Packaging
520417	Impulsive	UG	1

AC 111



Probe-holder fitting with o-ring and plug.

Code	Size	Class	Packaging
506227	3/8" x M10	UA	25 / 100

HMRI-K001-001



Wall mounting kit for HMR-M and US-R display.

Code	Class	Packaging
HMRI-K001-001	UG	1

LOCK 01



Lead seals for meter.

Code	Class	Packaging
506445	UG	1

BOC 01



Pair of fittings for meters.

Code	Size	Class	Packaging
520432	DN 15 - 3/4" F x 1/2" M	UG	1 / 12
520434	DN 20 - 1" F x 3/4" M	UG	1
520435	DN 25	UG	1
520436	DN 32	UG	1 / 4
520437	DN 40	UG	1

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WFK



Volumetric meter for domestic cold water with direct reading for box installation.

Code	Reading	Size	Q3	Type	Class	Packaging
WFK30-D110	Direct reading	G 3/4"	2.50 m³/h	Cold water (T max 30 °C)	UG	1
WFK30-D130	Direct reading	G 1"	4 m³/h	Cold water (T max 30 °C)	UG	1

WFW



Volumetric meter for domestic hot water with direct reading for box installation.

Code	Reading	Size	Q3	Type	Class	Packaging
WFW30-D110	Direct reading	G 3/4"	2.50 m³/h	Hot water (T max 90 °C)	UG	1
WFW30-D130	Direct reading	G 1"	4 m³/h	Hot water (T max 90 °C)	UG	1

RWM



Module to convert the direct-reading WFK and WFW meters into meters with an AMR (S-mode or C-mode) radio output that can be centralised.

Code	Reading	Class	Packaging
RWM5-000N	Direct reading >> Radio WALK-BY / AMR	UG	1

CAFS-D REED



Volumetric meter for domestic cold water with direct reading and designed for pulsed output via Reed contact, for box installation.

Code	Reading	Size	Q3	Type	Class	Packaging
SFU-P-13SRP	Direct reading	G 3/4"	2.50 m³/h	Cold water (T max 30 °C)	UG	1
SFU-P-20SRP	Direct reading	G 1"	4 m³/h	Cold water (T max 30 °C)	UG	1

CACS-D REED



Volumetric meter for domestic hot water with direct reading and designed for pulsed output via Reed contact, for box installation.

Code	Reading	Size	Q3	Type	Class	Packaging
SCU-P-13SRP	Direct reading	G 3/4"	2.50 m³/h	Hot water (T max 90 °C)	UG	1
SCU-P-20SRP	Direct reading	G 1"	4 m³/h	Hot water (T max 90 °C)	UG	1

CAV-IMP



Cable to convert the direct reading meter "-D REED" type into a meter with pulsed output.

Code	Reading	Length	Class	Packaging
CAV-IMP	Direct reading >> Impulsive	2 m	UG	1

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The meters for installation in the technical room can be split and feature:

- a volumetric unit that can be:
  - mechanical-multijet (up to DN 40);
  - Woltmann-type (for larger sizes up to DN 200);
  - ultrasonic;
- a pair of temperature probes;
- a calculation unit that uses the information received from the volumetric system and the probes to calculate the energy consumed.

CACML-I



Multi-jet mechanical heat meter with pulsed output, M-BUS output and two pulsed inputs for horizontal installation.

Code	Reading	Size	Qp	Type	Class	Packaging
CACML25IF	Impulsive	DN 25	3.50 m³/h	Heat/Cold	UG	1
CACML32IF	Impulsive	DN 32	6 m³/h	Heat/Cold	UG	1
CACML40IF	Impulsive	DN 40	10 m³/h	Heat/Cold	UG	1

HS-I



Ultrasonic heat meter with pulsed output, M-BUS output and two pulsed inputs for horizontal and vertical installation.

Code	Reading	Size	Qp	Type	Accessories	Class	Packaging
HS25FI	Impulsive	DN 25	3.60 m³/h	Heat/Cold		UG	1
HS32FI	Impulsive	DN 32	6 m³/h	Heat/Cold		UG	1
HS40FI	Impulsive	DN 40	10 m³/h	Heat/Cold		UG	1
HS50FI	Impulsive	DN 50	15 m³/h	Heat/Cold	Flanges	UG	1
HS65FI	Impulsive	DN 65	25 m³/h	Heat/Cold	Flanges	UG	1
HS80FI	Impulsive	DN 80	40 m³/h	Heat/Cold	Flanges	UG	1
HS100FI	Impulsive	DN 100	60 m³/h	Heat/Cold	Flanges	UG	1

CCWO-I



Woltmann heat meter with pulsed output, M-BUS output and two pulsed inputs for horizontal and vertical installation.

Code	Reading	Size	Qp	Type	Class	Packaging
CCWO50IF	Impulsive	DN 50	15 m³/h	Heat/Cold	UG	1
CCWO65IF	Impulsive	DN 65	25 m³/h	Heat/Cold	UG	1
CCWO80IF	Impulsive	DN 80	40 m³/h	Heat/Cold	UG	1
CCWO100IF	Impulsive	DN 100	60 m³/h	Heat/Cold	UG	1
CCWO125IF	Impulsive	DN 125	100 m³/h	Heat/Cold	UG	1
CCWO150IF	Impulsive	DN 150	150 m³/h	Heat/Cold	UG	1
CCWO200IF	Impulsive	DN 200	250 m³/h	Heat/Cold	UG	1

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AFUL



Volumetric meter for domestic cold water with pulsed output for horizontal and vertical installation, complete with fittings.

Code	Reading	Size	Q3	Type	Class	Packaging
AFUL25	Impulsive	DN 25	6.30 m³/h	Cold water	UG	1
AFUL32	Impulsive	DN 32	10 m³/h	Cold water	UG	1
AFUL40	Impulsive	DN 40	16 m³/h	Cold water	UG	1
AFUL50	Impulsive	DN 50	25 m³/h	Cold water	UG	1

ACUL



Volumetric meter for domestic hot water with pulsed output for horizontal and vertical installation, complete with fittings.

Code	Reading	Size	Q3	Type	Class	Packaging
ACUL25	Impulsive	DN 25	6.30 m³/h	Hot water	UG	1
ACUL32	Impulsive	DN 32	10 m³/h	Hot water	UG	1
ACUL40	Impulsive	DN 40	16 m³/h	Hot water	UG	1
ACUL50	Impulsive	DN 50	25 m³/h	Hot water	UG	1

CAFSWO-I



Woltmann volumetric meter for domestic cold water with pulsed output for horizontal and vertical installation

Code	Reading	Size	Q3	Type	Class	Packaging
CAFSWO65I	Impulsive	DN 65	25 m³/h	Cold water	UG	1
CAFSWO80I	Impulsive	DN 80	40 m³/h	Cold water	UG	1
CAFSWO100I	Impulsive	DN 100	60 m³/h	Cold water	UG	1
CAFSWO125I	Impulsive	DN 125	100 m³/h	Cold water	UG	1
CAFSWO150I	Impulsive	DN 150	150 m³/h	Cold water	UG	1
CAFSWO200I	Impulsive	DN 200	250 m³/h	Cold water	UG	1

CACSWO-I



Woltmann volumetric meter for domestic hot water with pulsed output for horizontal and vertical installation

Code	Reading	Size	Q3	Type	Class	Packaging
CACSWO65I	Impulsive	DN 65	25 m³/h	Hot water	UG	1
CACSWO80I	Impulsive	DN 80	40 m³/h	Hot water	UG	1
CACSWO100I	Impulsive	DN 100	60 m³/h	Hot water	UG	1
CACSWO125I	Impulsive	DN 125	100 m³/h	Hot water	UG	1
CACSWO150I	Impulsive	DN 150	150 m³/h	Hot water	UG	1
CACSWO200I	Impulsive	DN 200	250 m³/h	Hot water	UG	1

Factory tested

M-BUS pulse adapter



Pulse adapter to convert the pulsed output into an M-BUS signal

Code	Size	Class	Packaging
ADA4	Impulsive (4 Inputs) >> M-BUS	UG	1

AMR pulse adapter



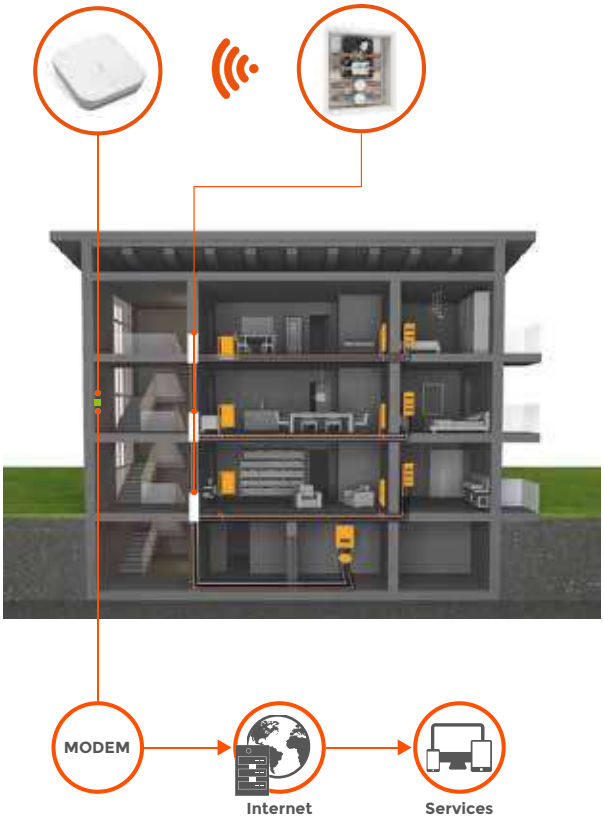
Pulse adapter to convert the pulsed output into an AMR radio signal

Code	Size	Class	Packaging
520462	Impulsive (2 inputs) >> Radio AMR	UG	1

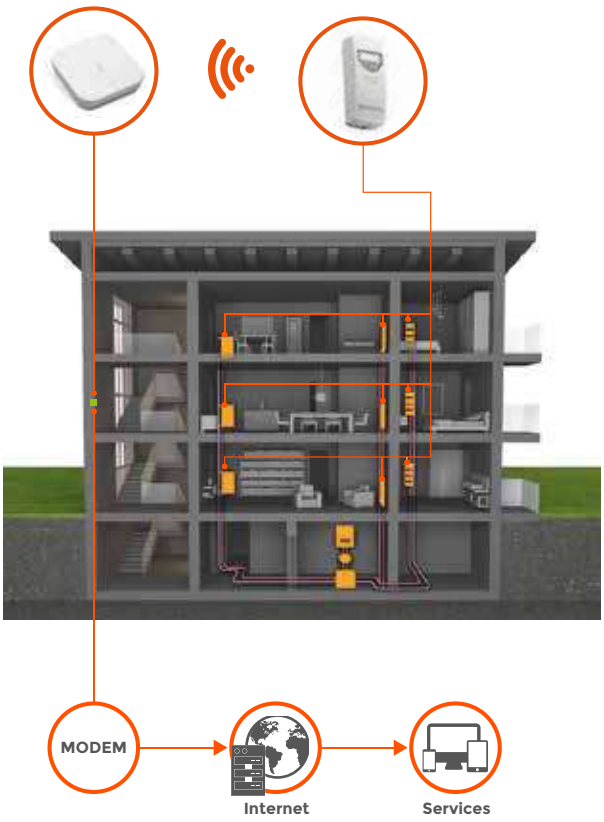
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DATA CENTRALISATION

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 AMR data transmission.
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



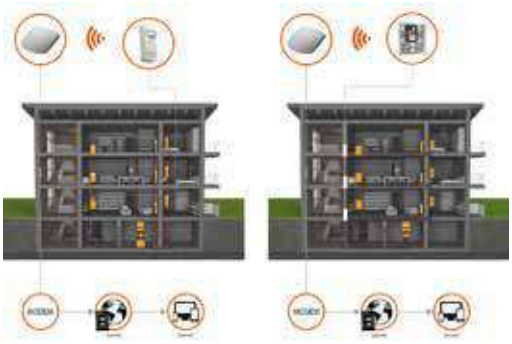


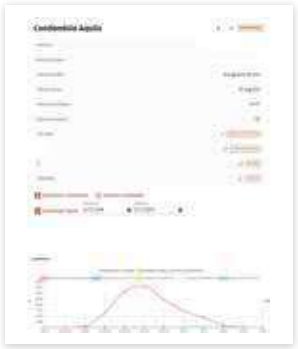


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IVARCLOUD

If you choose to equip your condominium with AMR radio reading heat metering systems, we offer you our **reading, monitoring, consumption analysis and system management service**, taking advantage of the potential offered by our modern CLOUD system. **IVARCLOUD** integrates cost allocation functions, particularly those relating to heat and domestic water (both hot and cold), allowing you to remotely acquire meter data and automate billing, in compliance with Legislative Decree No. 73 of 14 July 2020 (which requires all devices installed after 25 October 2020 to be remotely readable).

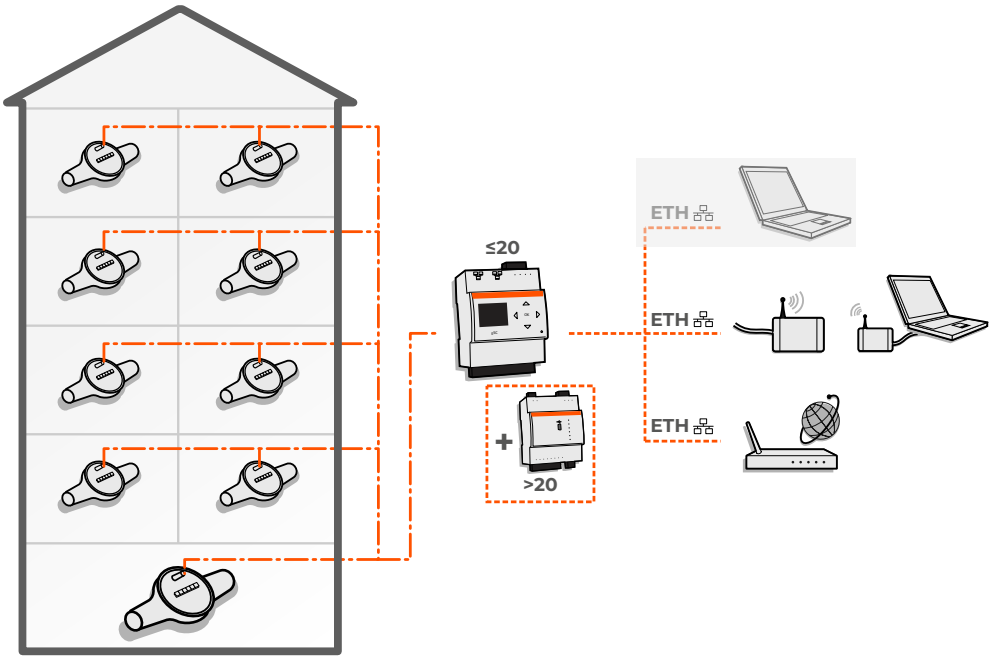






M-BUS SYSTEM

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.



EQUOBOX

The IVAR M-BUS 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 GWYMH, which is a central unit, includes a display and data logger function for data acquisition and archiving. Allows up to 20 devices to be read via M-BUS protocol and is expandable to read up to 500 device loads on two separate M-BUS lines (each of max 250 devices) by adding an appropriate Level Converter (B12).
  The same GWYMH unit also functions as a gateway for Multi-hop radio AMR systems and via dedicated backbone composed of RPTMH antennas is able to read up to 2500 W-MBUS devices, allowing storage of daily readings for up to 10 years.
- 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.

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GWYMH



Gateway multi-hop wireless + wired M-BUS (20 devices).

Code	Reading	Size	Class	Packaging
590153	Max 2500 devices wireless + 500 wired	15 W	UG	1

B12



Level Converter for reading 60 loads.

Code	Reading	Size	Class	Packaging
590130	Max 60 devices	24 VAC – 12 W	UG	1

AB10



24 V DC power supply.

Code	Size	Class	Packaging
590133	24 VDC – 15 W	UG	1
590134	24 VDC – 60 W	UG	1

MOD 02



Router for remote reading of the central units.

Code	Class	Packaging
590135	UG	1

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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 gateway (code 590154) and a repeater (code 590140). Both items are able to receive data from devices (meters, distributors, pulse adapters, etc.) installed up to a maximum limit of 200 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.

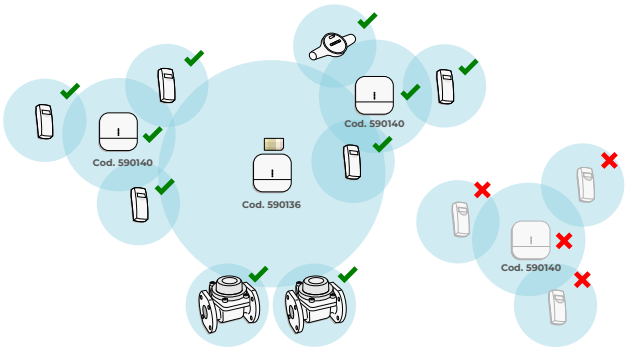
The gateway is equipped with a data SIM which allows remote reading of the metering data. The reading is made with a weekly transmission frequency.

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.

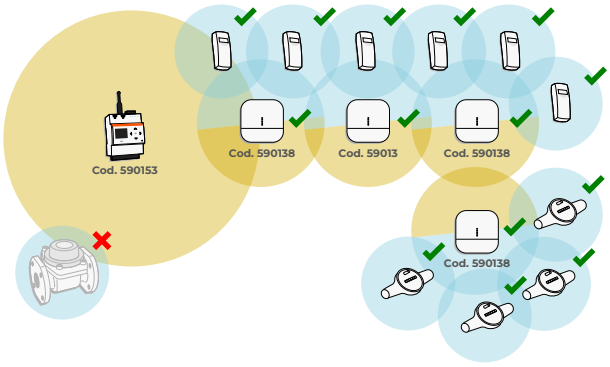
Through the new gateway, the maximum limit of radio devices which can be read is 2500, using the corresponding repeaters (code 590138) up to a maximum of 23, each of which offers a maximum of 500 devices.

Furthermore, the multi-hop gateway is of hybrid type: it can read up to 2500 wireless devices, but also has an M-BUS port that allows the direct wired connection of up to 20 M-BUS meters, which is expandable up to 500 using two backbones and special level converters (code 590130).

SINGLE-HOP



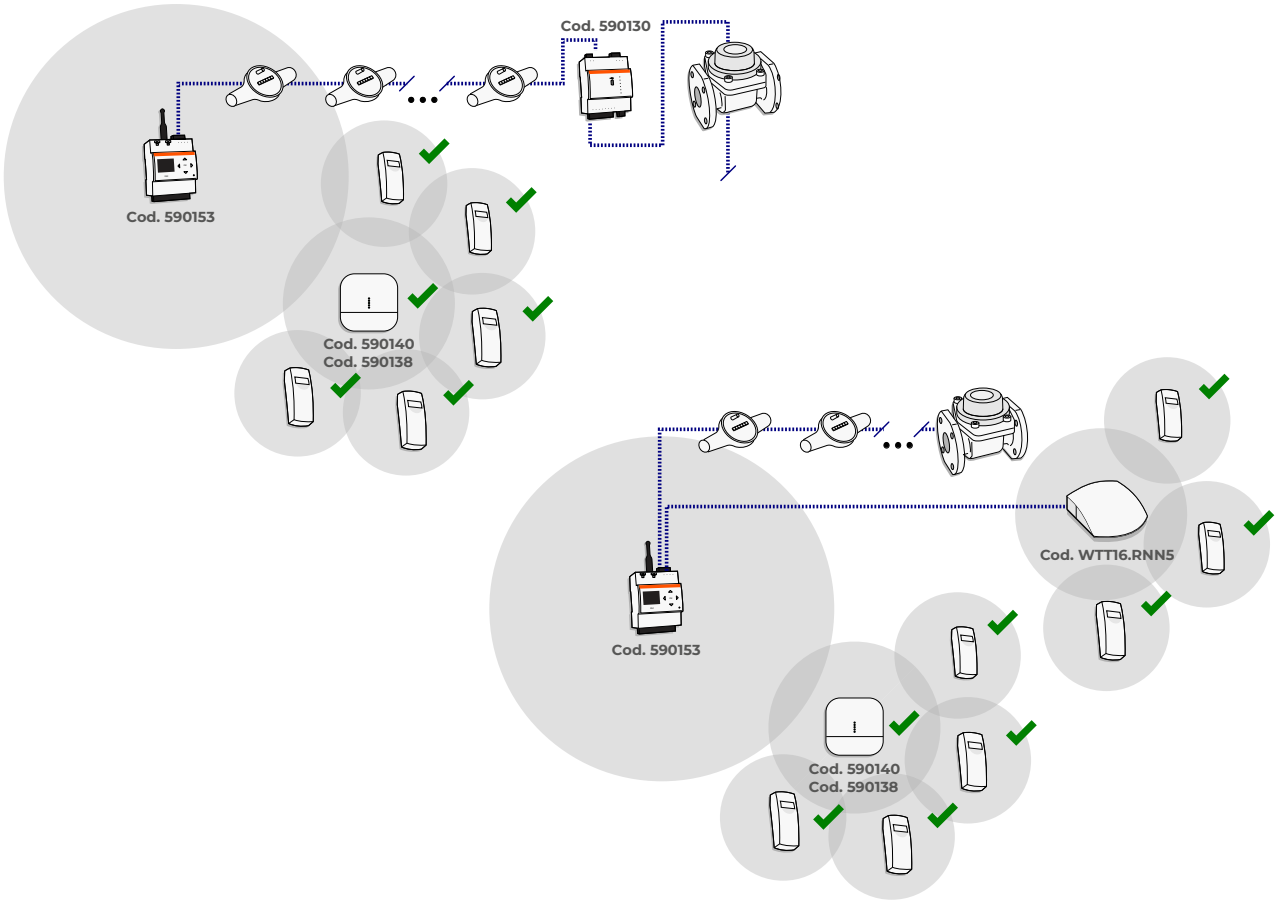
MULTI-HOP

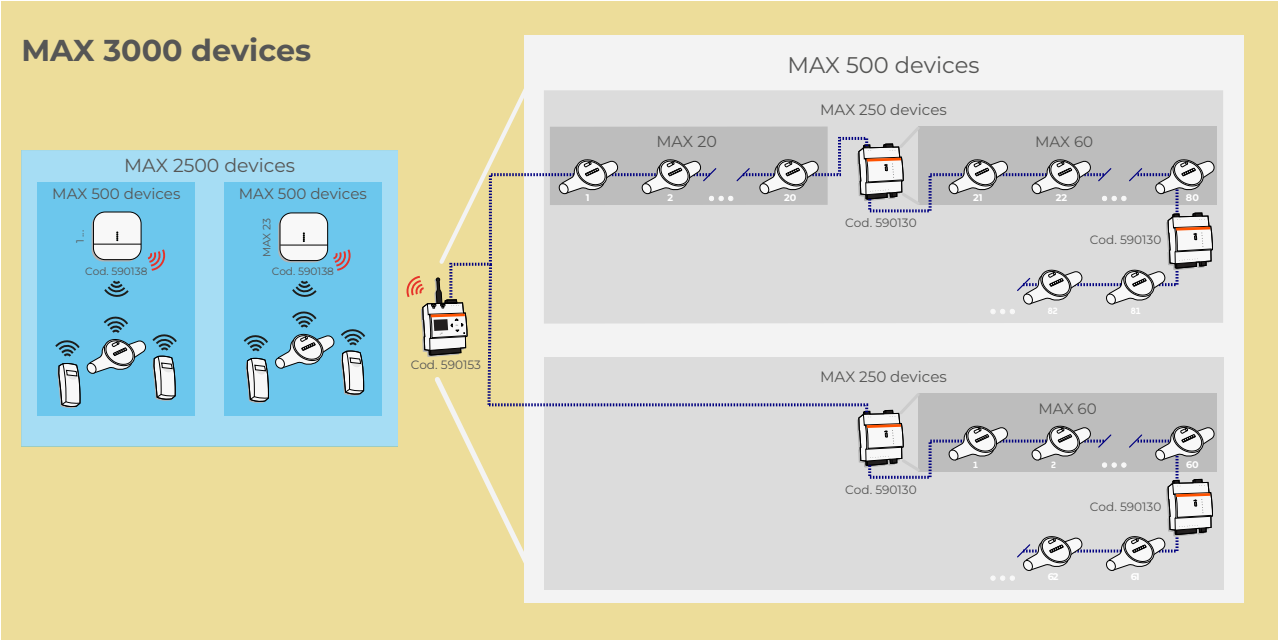


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Both systems are compatible with the standard W-MBUS transmission modes and are therefore able to read devices made by other manufacturers (provided they communicate in W-MBUS) whether in T, S or C modes.

Each gateway can be read locally or remotely by internet connection (if necessary, a router is provided).





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DEVICES FOR DATA CENTRALISATION

GWYMH



Gateway multi-hop wireless + wired M-BUS (20 devices).

Code	Reading	Size	Class	Packaging
590153	Max 2500 devices wireless + 500 wired	15 W	UG	1

RPTMH



Repeater multi-hop wireless M-BUS.

Code	Reading	Size	Class	Packaging
590138	C/S mode compatible	230 V AC	UG	1

GWY1H



Gateway single-hop wireless M-BUS (embedded router and SIM).
This product can only be sold with IVAR CLOUD subscription and/or data credit renewal.

Code	Reading	Size	Class	Packaging
590154	C/S mode compatible (max 200 devices)	230 V AC	UG	1

RPT1H



Repeater unidirectional single-hop wireless M-BUS.

Code	Reading	Size	Class	Packaging
590140	C/S mode compatible	230 V AC	UG	1

AB10



24 V DC power supply.

Code	Size	Class	Packaging
590133	24 VDC – 15 W	UG	1
590134	24 VDC – 60 W	UG	1

MOD 02

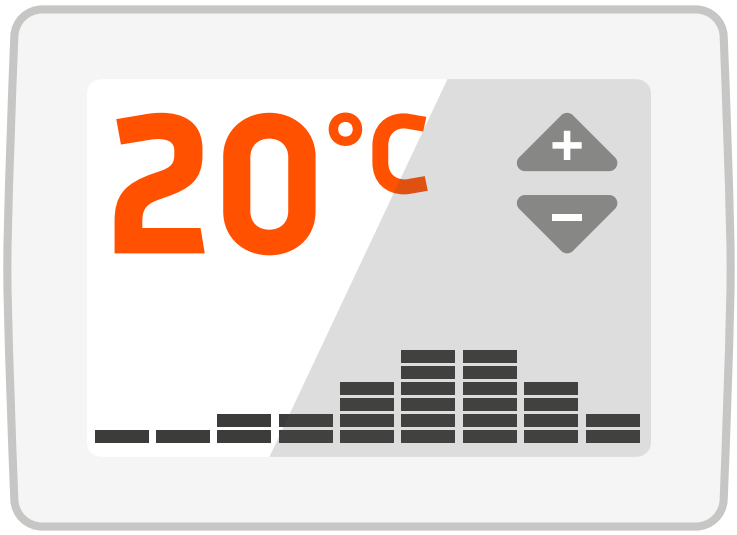


Router for remote reading of the central units.

Code	Class	Packaging
590135	UG	1

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REGULATION AND CONTROL



INDEX



CLIMA•HUB - Electronic controller for heating and cooling systems 432



LAGO BASIC - Electronic controller for weather compensation (heating only) 439



Thermostats 440



Motors 442



Electrothermal heads 444



Wiring accessories 446



Safety thermostats 447



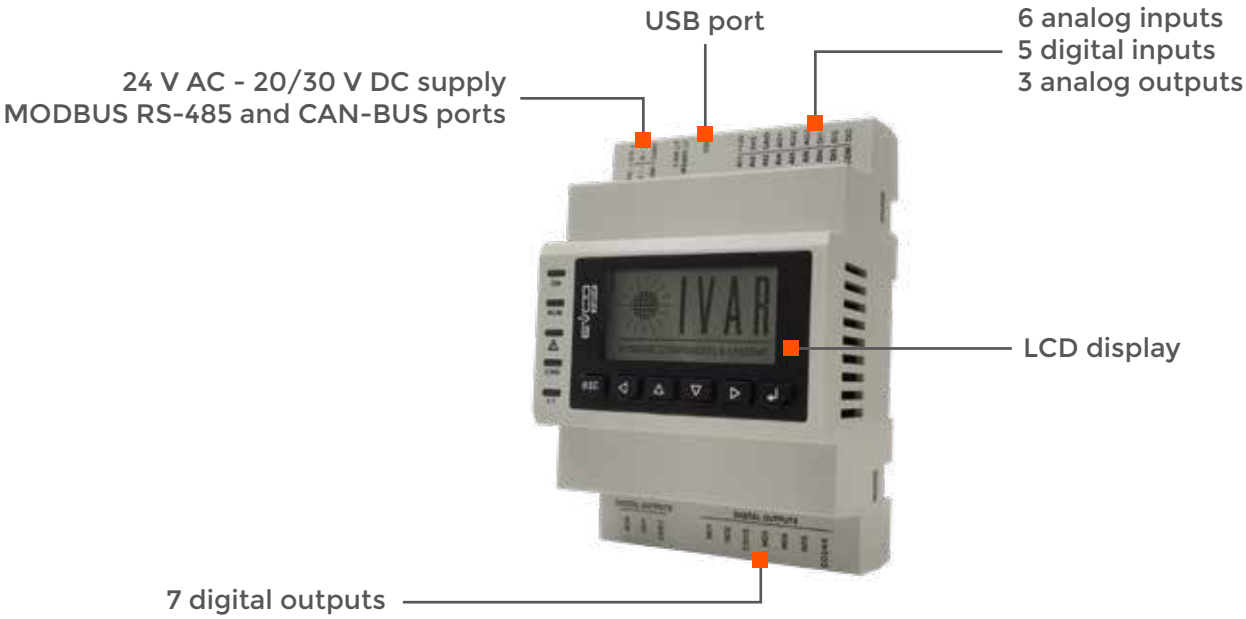
CLIMA•HUB

CLIMA•HUB is an electronic controller for the management of heating/cooling plants. The system is based on a freely-programmable controller equipped with digital and analog inputs/outputs, bus ports, to which different applications are uploaded depending on the specific system requirements. Thanks to this flexible approach, IVAR can provide intelligence to the individual plants and offer advanced solutions for comfort and energy saving.

CLIMA•HUB is available in 4 variants (CLIMA-HUB 01 / 02 / 03 / 04) with different application software. For special needs it is possible to contact IVAR's Linea Arancio and evaluate possible customized solutions.

+ PLUS

- Management of up to 14 temperature/ humidity zones
- Module for integration of cooling with dehumidification
- Possibility to assign a temperature or humidity function to each zone relay with specific comfort time bands
- Accessory for management via colour touchscreen interface
- Control of two different terminal devices with a zone timer thermostat/humidistat
- Anti-frost and anti-lock function
- Possibility to carry out tests and forcing



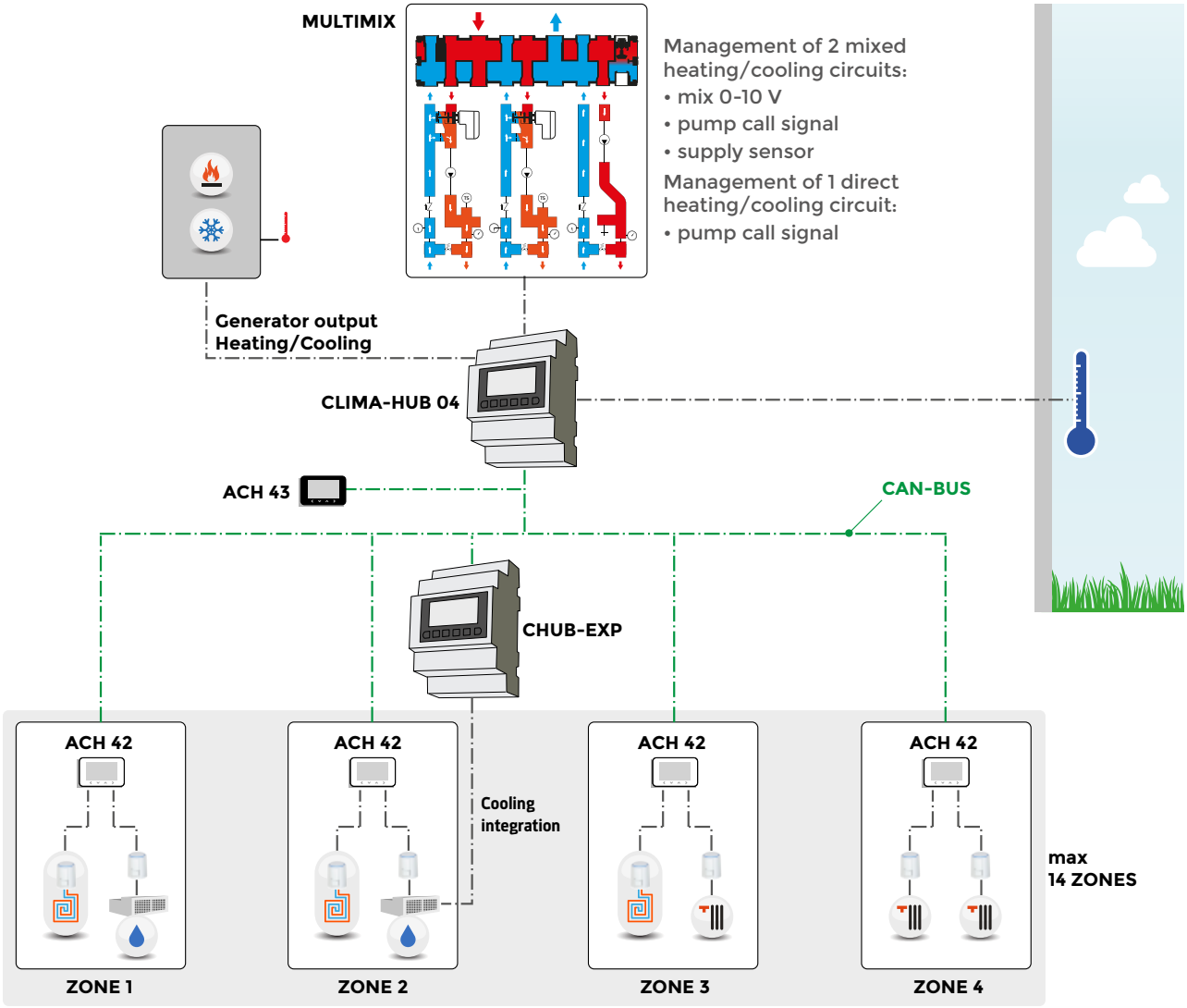
CLIMA-HUB 04 electronic controller for heating/cooling allows the management of:

- 2 mixed circuits for the dsitribution to radiant system with weather compensation (for the second mixed circuit, order the ACH 41 chronothermohumidistat);
- 1 direct circuit for the distribution in high temperature or the supply to dehumidification circuits.

The controller interacts with temperature and humidity probes connected via CAN-BUS. Each probe has two relays through which it is possible to manage both the zone electro-thermal actuator on the manifold and any dedicated dehumidifier.

An optional color touchscreen viewer is available for monitoring the system from a single home terminal.
By inserting the CHUB-EXP expansion module it is possible to provide a further call signal to the dehumidifiers whenever these are also able to work in cooling assist mode.
In summer it is, indeed, possible to activate a booster mode whenever the temperature setpoint is not reached within a certain time period which can be set by the user.

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Simplified scheme. Check manuals for correct electrical connections

1. Heating /cooling zone with dehumidification
2. Heating /cooling zone with dehumidification and integration call signal
3. Heating/cooling (radiant) zone without dehumidification + integration of heating only with radiators
4. Heating only zone with radiators or heating/cooling zone with fan-coils.

NB: each call signal of the ACH 42 timer thermostat/humidistat can be associated with one of the booster circuits.

CLIMA-HUB 04



Electronic regulator (heating/cooling) complete with room chronothermohumidistat, external probe and a delivery probe.

Code	Size	Module	Class	Packaging
CHUB04	24 V AC - 20/30 V DC	4 DIN modules	VC	1

CHUB-EXP



Expansion module for CHUB04.

Code	Class	Packaging
CHUB-EXP	VC	1

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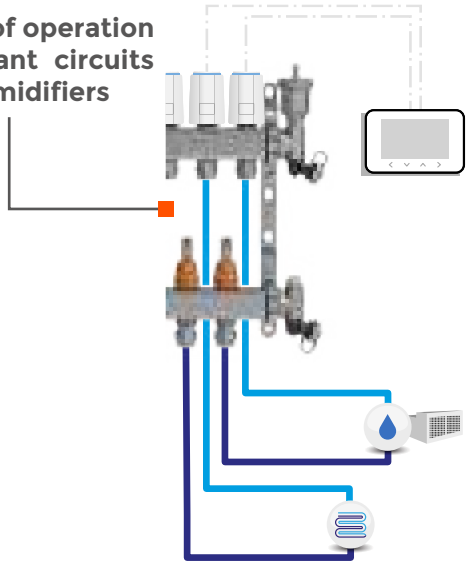
ACH 42 is a chronothermohumidistat to be used in combination with the CHUB04 electronic regulator.

It is equipped with temperature and humidity probes, two relay outputs and a CAN-BUS port.
The device measures zone temperature and humidity and sends the values to the controller via CAN-BUS protocol. Based on the values received, the regulator provides the chronothermohumidistat with the appropriate consents to activate or not the relay outputs.

In general, it is possible to operate the zone actuator in the event of a temperature request (relay 1) and start the dehumidifier (relay 2) if the zone conditions are close to the dew-point.

However, it is possible to use the second relay also to control a second temperature terminal, for example a design radiator to which you want to provide activation times different from those of the radiant system.

Example of operation with radiant circuits and dehumidifiers





Wall installation with recessed housing.
Compatible with 503E or square electrical boxes (fig. 1).

Fig. 1



ACH 41



Room chronothermohumidistat complete with delivery probe for additional mixing circuit.

Code	Size	Class	Packaging
0KC2TH	115/230 V AC	VC	1

ACH 42



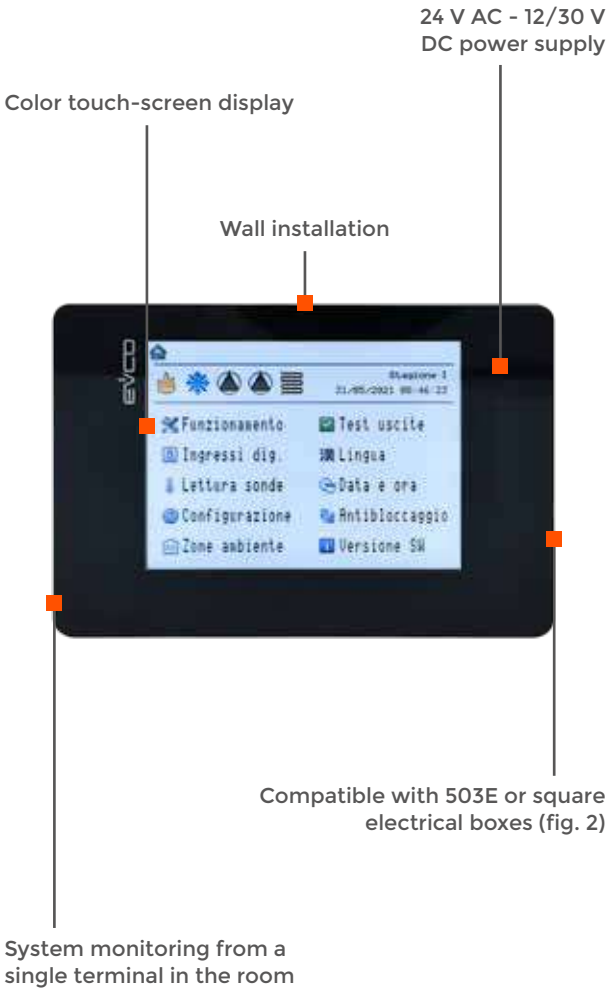
Room chronothermohumidistat for additional zone.

Code	Size	Class	Packaging
0SDTH01	115/230 V AC	VC	1

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ACH 43 is a color touch-screen viewer. The device is optional and shows the menu of the electronic controller.

In this way, the user can easily manage and monitor the entire system from a control panel installed in the room.



ACH 43

Wall-mounted control panel for CHUB04.



Code	Size	Class	Packaging
0EPJ00	24 V AC - 12/30 V DC	VC	1

Fig. 2

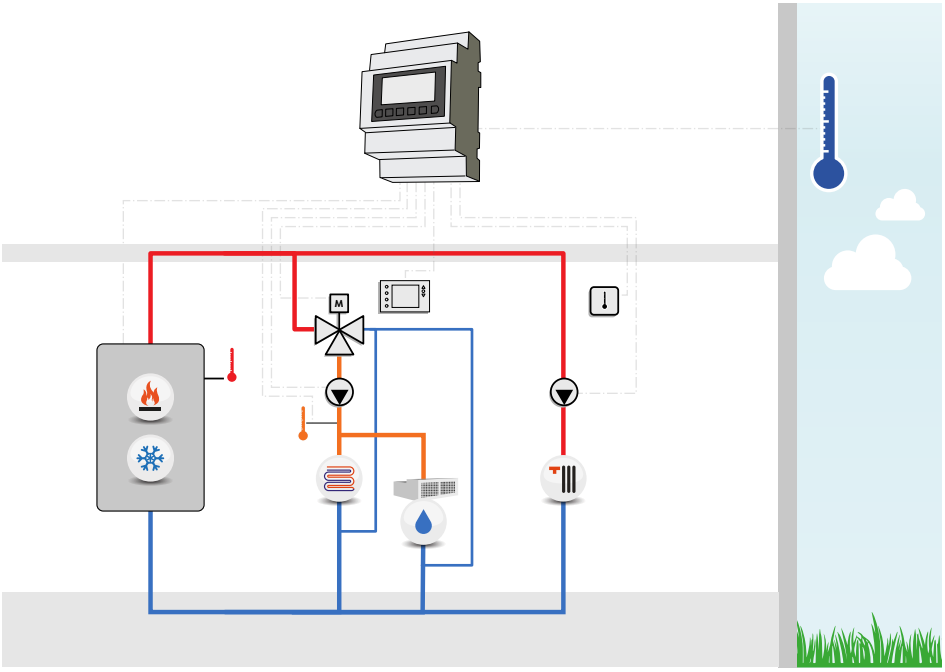


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CLIMA-HUB 01 electronic controller for heating/cooling allows the management of:

- 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.



Simplified scheme. Check manuals for correct electrical connections

CLIMA-HUB 01



Electronic regulator (heating/cooling) complete with external probe and delivery probe.

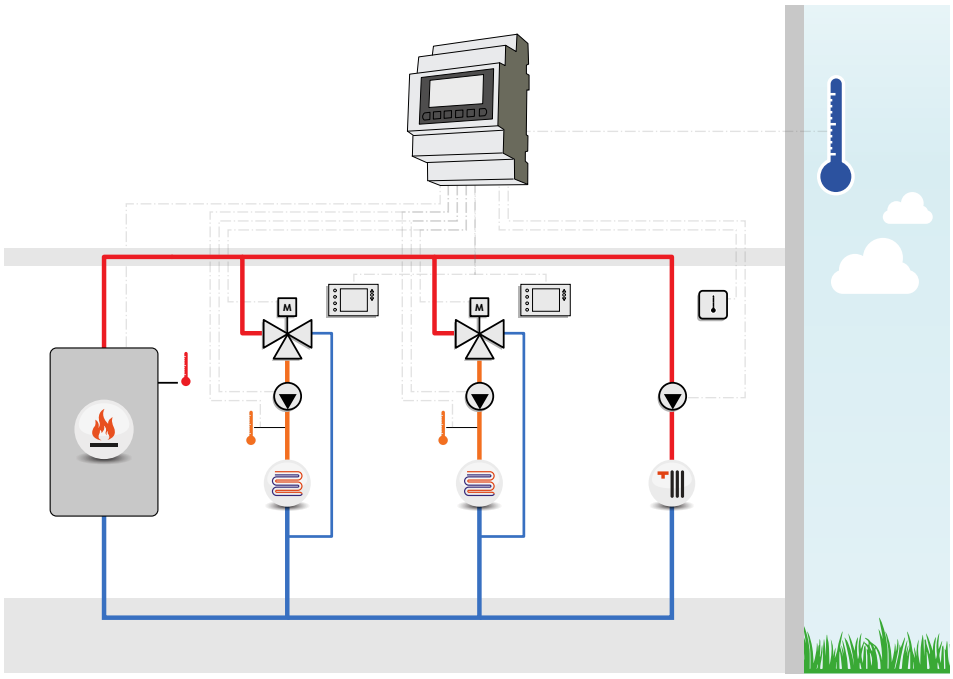
Code	Size	Module	Class	Packaging
CHUB01	24 V AC - 20/30 V DC	4 DIN modules	VC	1

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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.



Simplified scheme. Check manuals for correct electrical connections

CLIMA-HUB 02



Electronic regulator (heating only) complete with external probe and two delivery probes.

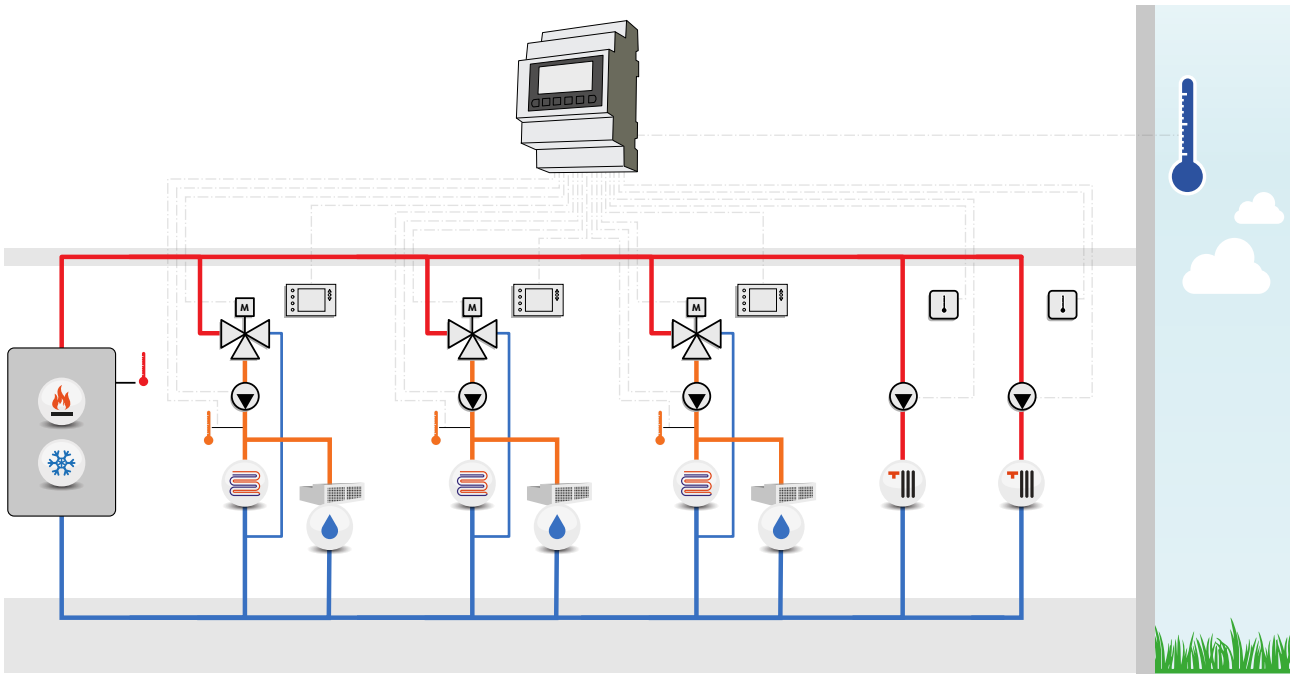
Code	Size	Module	Class	Packaging
CHUB02	24 V AC - 20/30 V DC	4 DIN modules	VC	1

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CLIMA-HUB 03 electronic controller for heating/cooling allows the management of:

- 3 mixed circuit controlled by temperature/ humidity probe
- 2 direct circuits controlled by On / Off room thermostats
- 3 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.



Simplified scheme. Check manuals for correct electrical connections

CLIMA-HUB 03



Electronic regulator (heating/cooling) complete with external probe and three delivery probes.

Code	Size	Module	Class	Packaging
CHUB03	24 V AC - 20/40 V DC	8 DIN modules	VC	1

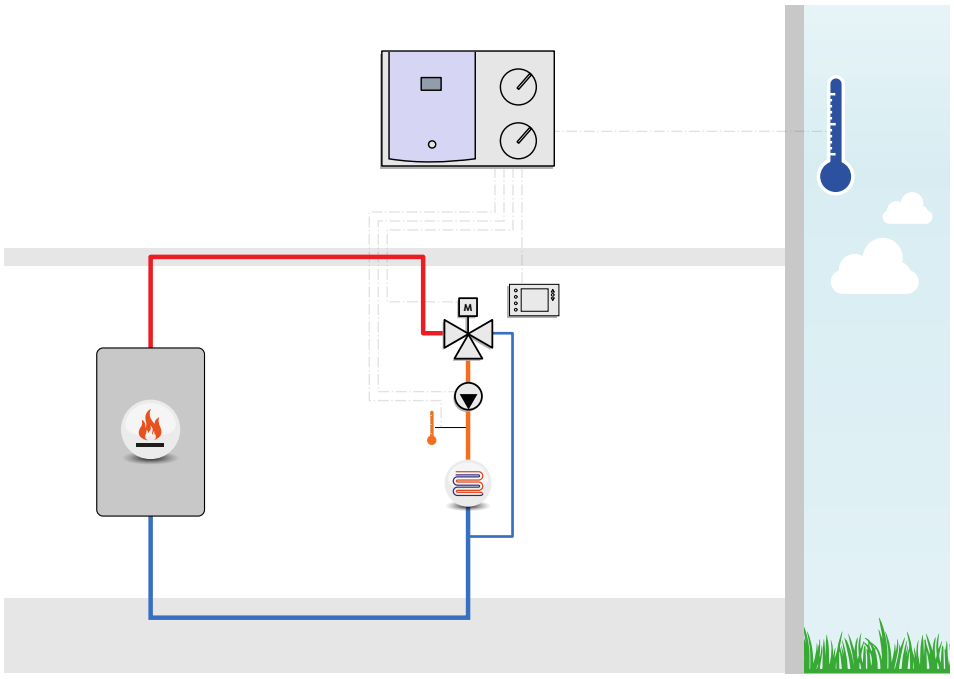
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LAGO BASIC

LAGO BASIC electronic controller for heating only allows the management of:

- 1 mixed circuit controlled by On / Off room thermostats.

It is the basic solution for heating-only installations.
The mixing valve is controlled by a **3-point (230 V AC)** voltage signal according to a setpoint which can be fixed or variable, based on a set climatic compensation.



Simplified scheme. Check manuals for correct electrical connections

LAGO BASIC

Climatic regulator (heating only) complete with external probe and delivery probe.



Code	Size	Class	Packaging
99797309	230 V AC	VC	1

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THERMOSTATS

IVAR offers a complete range of digital thermostats and timed thermostats for regulation of individual environments, characterised especially for their intuitiveness in use.
JUSTO is a timed thermostat that 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.
The Justo range of thermostats is completed with the Justo and Justo Lite wireless versions. In this version, the thermostat (or timer thermostat) is supplied along with a plug containing a wireless receiver and relay. **The thermostat installed in the environment sends the heating request to the wireless receiver via radio**. The receiver installed near the boiler provides the call for activation of the generator (fig. 1).

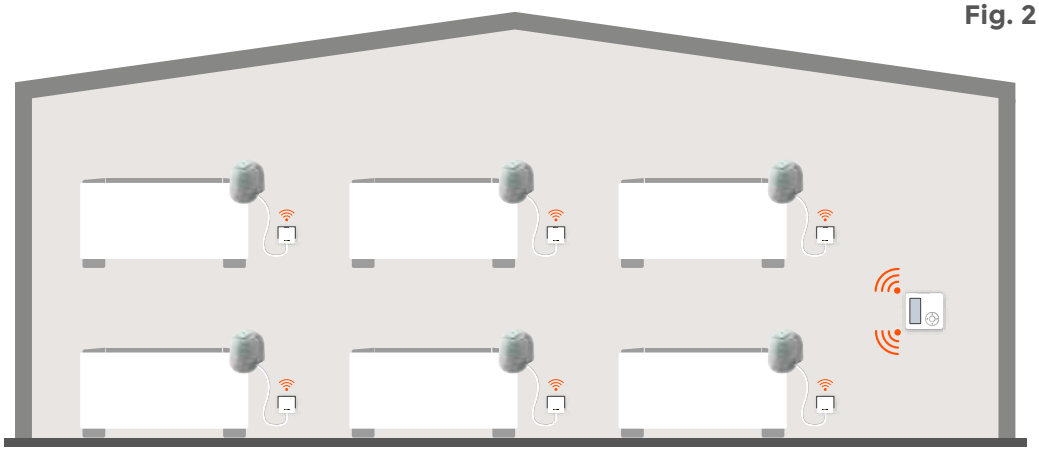
This solution allows the **thermostat to be easily installed in the environment without the need for costly and difficult wiring installations** to connect the thermostat to the boiler.
Obviously, the wireless receiver can also be used to operate a zone valve or supply the call signal for fancoils to turn on.
It is also possible to pair **a single thermostat with up to six wireless receivers**, thus allowing a single thermostat to provide the call signal to multiple terminal devices (e.g. fancoils) located in the same environment (fig. 2).
IVAR also proposes:

- **AC 701** thermostat is available for heating only (or cooling only) applications with the simple battery power supply and incremental buttons for changing the temperature setting.
- **AC 710 T,** a timed thermostat for heating only with touch screen and possibility of programming on/off time slots during the day/week
- **CRTH (**a timed thermostat with humidity sensor).

Fig. 1



Fig. 2



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JUSTO



Digital timed thermostat ON/OFF or PWM (heating/cooling).

Code	Size	Class	Packaging
580021	Battery	VA	1 / 50

JUSTO LITE



Digital thermostat ON/OFF (heating/cooling).

Code	Size	Class	Packaging
580010	Battery	VA	1

JUSTO W



Wireless digital timed thermostat ON/OFF or PWM (heating/cooling) with receiver.

Code	Size	Class	Packaging
580024	Battery	VA	1 / 35

JUSTO LITE W



Wireless digital thermostat ON/OFF (heating/cooling) with receiver.

Code	Size	Class	Packaging
580022	Battery	VA	1

RW 711 J



Receiver for JUSTO W.

Code	Class	Packaging
580025	VA	1 / 35

RW 701 JL



Receiver for JUSTO LITE W.

Code	Class	Packaging
580023	VA	1

ACB 05



Cover plate for the installation of timed thermostat, thermostat or temperature sensor on 503 E electrical box.

Code	Size	Class	Packaging
506070	503 E	VA	1

AC 701



Digital thermostat (heating only).

Code	Size	Class	Packaging
580011	Battery	VA	1 / 40

AC 710 T



Daily/weekly digital timed thermostat (heating only) with touch screen.

Code	Size	Class	Packaging
580018	Battery	VA	1 / 40

CRTH



Timed thermostat with humidity sensor.

Code	Size	Class	Packaging
CRTH	220 V	VA	1

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MOTORS

The flow 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 ADH 20 and CTC 20 servomotors integrate the regulation logic and the devices necessary to manage the mixed circuit without needing additional components.
CTC 20 makes fixed point regulation possible (in heating and cooling) and has an outlet for the secondary circulation pump.
ADH 20 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



Revolving actuator with incorporated regulator and probes for fixed point control of mixing valves.

Code	Size	Class	Packaging
501648	230 V AC	PC	1

ADH 20



Revolving actuator with incorporated regulator and probes for climatic control of mixing valves.

Code	Size	Class	Packaging
501647	230 V AC	PC	1

M 106



Motor for rotor mixing valves.

Code	Size	Class	Packaging
501394	3-point regulation (230 V AC)	PC	1 / 8
501395	Proportional 0-10 V (24 V AC)	PC	1 / 8
501396	3-point regulation (24 V AC)	PC	10

RV 01



Axial motor. Suitable for all IVAR thermostatic inserts.

Code	Size	Class	Packaging
501381	M30 x 1,5 - 3-point regulation (230 V AC)	PC	1 / 100
501383	M30 x 1,5 - Proportional 0-10 V (24 V AC/DC)	PC	1 / 100



CLIMA•HUB - Electronic controller for heating and cooling systems >>p. 433

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AVZS 11

Servo motor for ball zone valves with release device.



Code	Size	Class	Packaging
506242V	24 V AC - 25 sec.	NN	1
506243V	230 V AC - 25 sec.	NN	1 / 8

AVZS 01

Servo motor for ball zone valves.



Code	Size	Class	Packaging
506241V	230 V AC - 25 sec.	NN	2 / 16

AVZS 02

Servo motor for 2-way ball zone valves.



Code	Size	Class	Packaging
506166	230 V - 90 sec.	NN	1 / 8

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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 4040 A) versions. All electrothermal heads are equipped with double insulation.

TE 3040



Electrothermal head normally closed (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 50 mm (no EASY-RADIANT).

Code	Size	Manifolds type	Class	Packaging
501508	M30 x 1,5 ; ON / OFF (230 V AC)	OC distance ≥ 50 mm (no EASY-RADIANT)	AC	1 / 100
501524	M30 x 1,5 ; ON / OFF (24 V AC/DC)	OC distance ≥ 50 mm (no EASY-RADIANT)	AC	1 / 100

TE 4040 A



Electrothermal head normally open (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 50 mm (no EASY-RADIANT).

Code	Size	Manifolds type	Class	Packaging
501508A	M30 x 1,5 ; ON / OFF (230 V AC)	OC distance ≥ 50 mm (no EASY-RADIANT)	AC	1 / 100
501524A	M30 x 1,5 ; ON / OFF (24 V AC/DC)	OC distance ≥ 50 mm (no EASY-RADIANT)	AC	100

TE 3050 M



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).

Code	Size	Manifolds type	Class	Packaging
500808M	M30 x 1,5 ; ON / OFF (230 V AC)	OC distance ≥ 50 mm (no EASY-RADIANT)	AC	1 / 100
500028M	M30 x 1,5 ; ON / OFF (24 V AC/DC)	OC distance ≥ 50 mm (no EASY-RADIANT)	AC	1 / 100

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TE 3061



Electrothermal head normally closed (proportional control 0-10 V). Suitable for all IVAR thermostatic inserts.

Code	Size	Class	Packaging
500887	M30 x 1,5 ; Proportional 0-10 V (24 V AC)	AC	100

TE 3040 IV



Electrothermal head normally closed (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 40 mm.

Code	Size	Manifolds type	Class	Packaging
501508E	M30 x 1,5 ; ON / OFF (230 V AC)	OC distance ≥ 40 mm	AC	1 / 100

TE 6040



Electrothermal head normally closed (2 wires). Suitable for all IVAR thermostatic inserts and manifolds with centre-to-centre distance ≥ 40 mm.

Code	Size	Manifolds type	Class	Packaging
501390	M30 x 1,5 ; ON / OFF (230 V AC)	OC distance ≥ 40 mm	AC	1 / 100
501391	M30 x 1,5 ; ON / OFF (24 V AC/DC)	OC distance ≥ 40 mm	AC	1 / 100

TE 6050 M



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.

Code	Size	Manifolds type	Class	Packaging
501514	M30 x 1,5 ; ON / OFF (230 V AC)	OC distance ≥ 40 mm	AC	1 / 70
501401	M30 x 1,5 ; ON / OFF (24 V AC/DC)	OC distance ≥ 40 mm	AC	1 / 70

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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 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 VAC or 24 VAC 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



Wiring box with electric board.

Code	Size	Class	Packaging
5018281	230 V AC	VA	4 / 32

ALC 01



Wiring center for zone control (max 8 zones).

Code	Size	Class	Packaging
ALC01	230 V AC / 24 V AC	VA	1 / 24

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SAFETY THERMOSTATS

AC 614

Adjustable contact safety thermostat.



Code	Class	Packaging
580002	VA	10

AC 613 C

Pre-wired adjustable contact safety thermostat.



Code	Class	Packaging
580000	VA	1 / 8

AC 616

Adjustable safety thermostat with immersion probe.



Code	Class	Packaging
580003	VA	6

AC 613 S

Pre-wired safety thermostat with immersion probe.



Code	Class	Packaging
580001	VA	1 / 8

AC 616 I

Adjustable safety thermostat with distance thermometer.



Code	Class	Packaging
580007	VA	8

AC 613 SI

Pre-wired adjustable safety thermostat with distance thermometer.



Code	Class	Packaging
580008	VA	1 / 8

AC 634

Safety thermostat with fixed setting.



Code	Size	Max operating temp.	Class	Packaging
580020	1/2'' M	40 °C	VA	8 / 64
580009	1/2" M	60 °C	VA	8 / 64

AC 613 F

Pre-wired safety thermostat with fixed setting.



Code	Size	Max operating temp.	Class	Packaging
580014	1/2" M	60 °C	VA	1 / 8

AC 608

Electrical connection kit for connection in series of safety thermostat and pump.

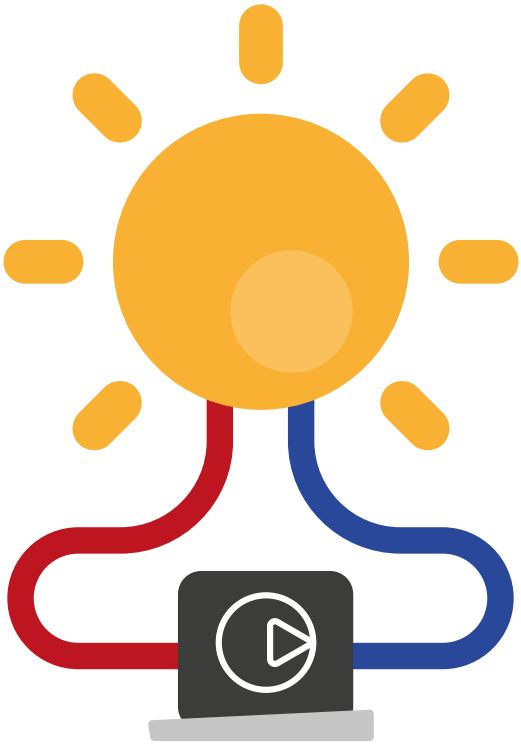


Code	Class	Packaging
501370	VA	14

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SOLAR SYSTEMS





Thermostatic diverter valve 452



THERMOSTATIC DIVERTER VALVE

The thermostatic diverter valve is a device which diverts the incoming water towards one outlet or another depending on its temperature. This device is therefore used primarily in solar systems for the production of domestic hot water.

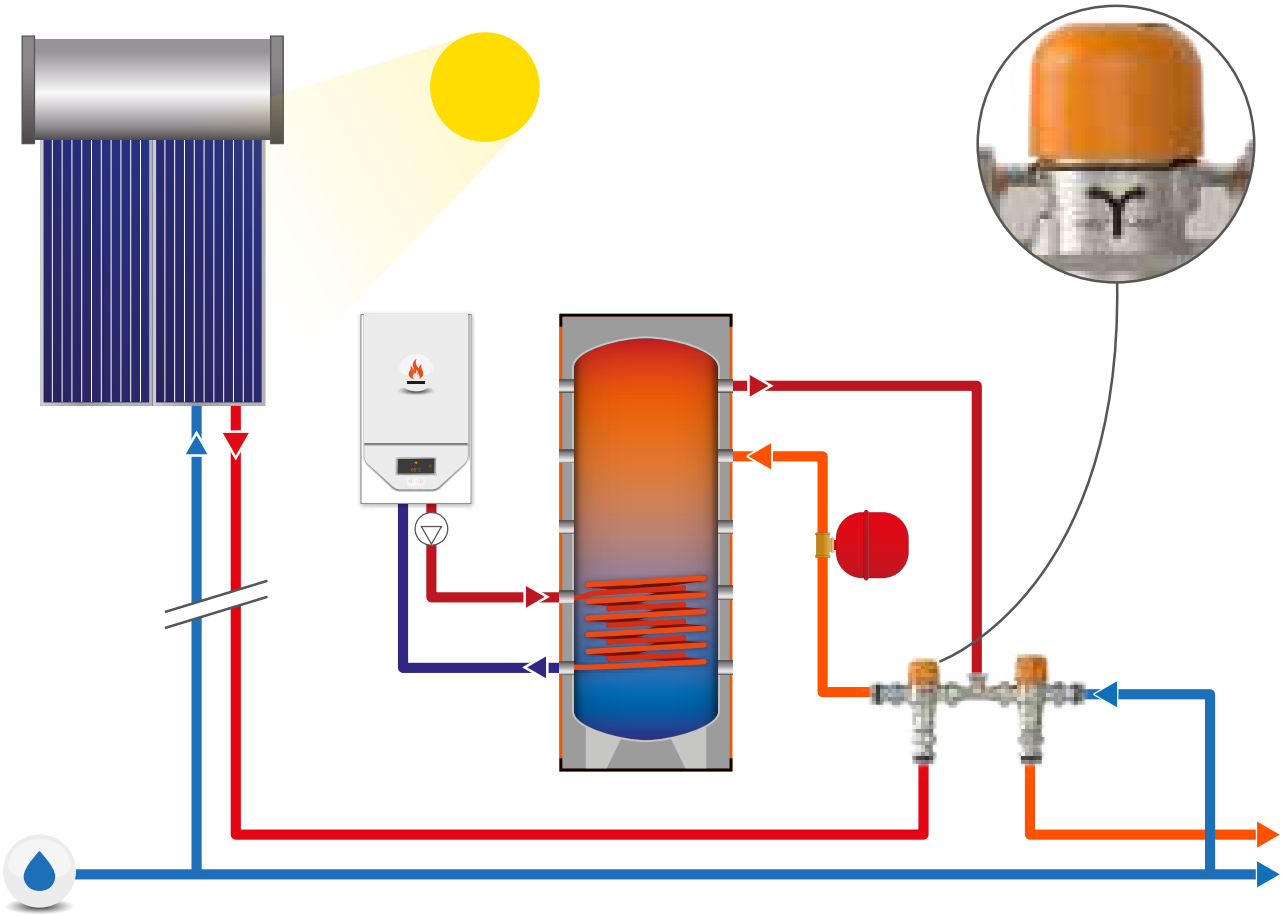
If the DHW in the solar storage tank is sufficiently hot (T > 45°C), the water will be diverted directly to the terminal devices. On the contrary, if the water produced in the solar storage tank is at a lower temperature (T < 45°C), then the diverter valve switches the outlet to a booster storage tank or a source. The valve is available with ½" or ¾" unions.

Since the temperature of the water arriving from solar storage tanks is generally rather high, the diverter valve is used in combination with a solar thermostatic mixer suitable for high temperatures.

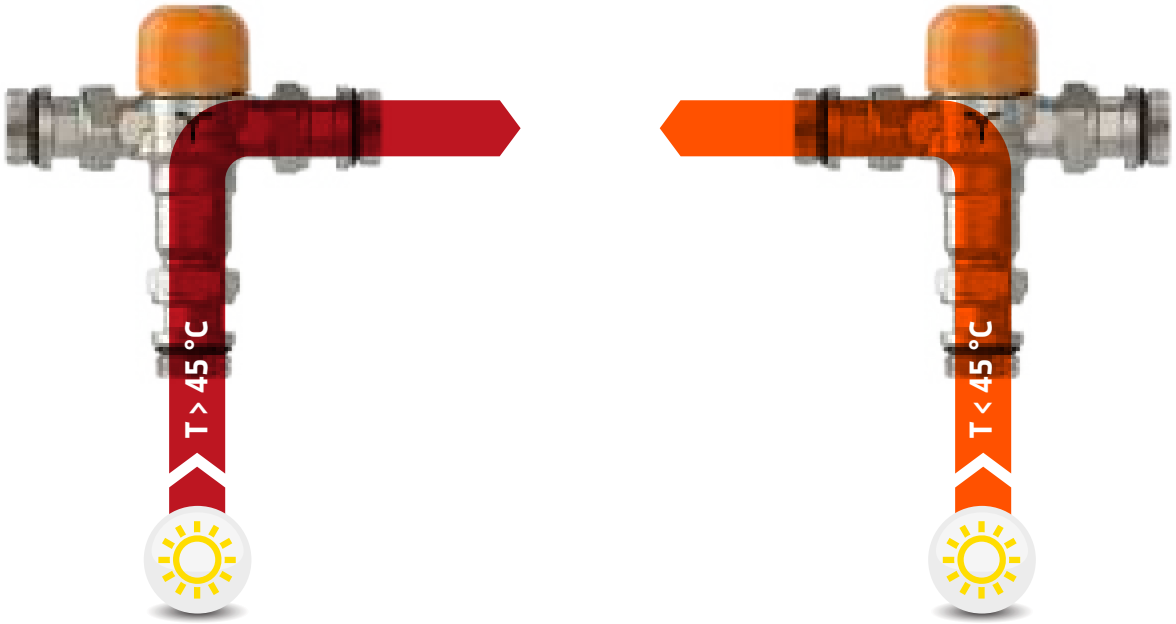
For this reason, the DEV 02 SOL kit is available, consisting of a thermostatic diverter valve and a thermostatic mixer.
When the temperature from the solar storage tanks is greater than 45°C, the diverter valve directs the water directly to the thermostatic mixer which brings it to a temperature suitable for distribution on the basis of the set value (adjustment range 36-50°C).

If the temperature from the solar storage tanks is below 45°C, on the other hand, the diverter valve directs the water to a boiler with storage tank where its temperature is increased. The water outlet from the boiler passes through the thermostatic mixer which keeps it stably at the set temperature.

Moreover, the mixer guarantees anti-scald safety by interrupting the water supply in the event that there is no cold water supply.



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DEV 01



Thermostatic diverter valve complete with fittings.

Code	Size	Class	Packaging
506571	1/2"	QA	1 / 22
506572	3/4"	QA	1 / 22

DEV 02 SOL



Kit consisting of thermostatic diverter valve, connection T-fitting, adjustable thermostatic mixer for solar applications and fittings.

Code	Size	Class	Packaging
506570	3/4"	QA	1 / 8



MT 00 SOL >> p. 363

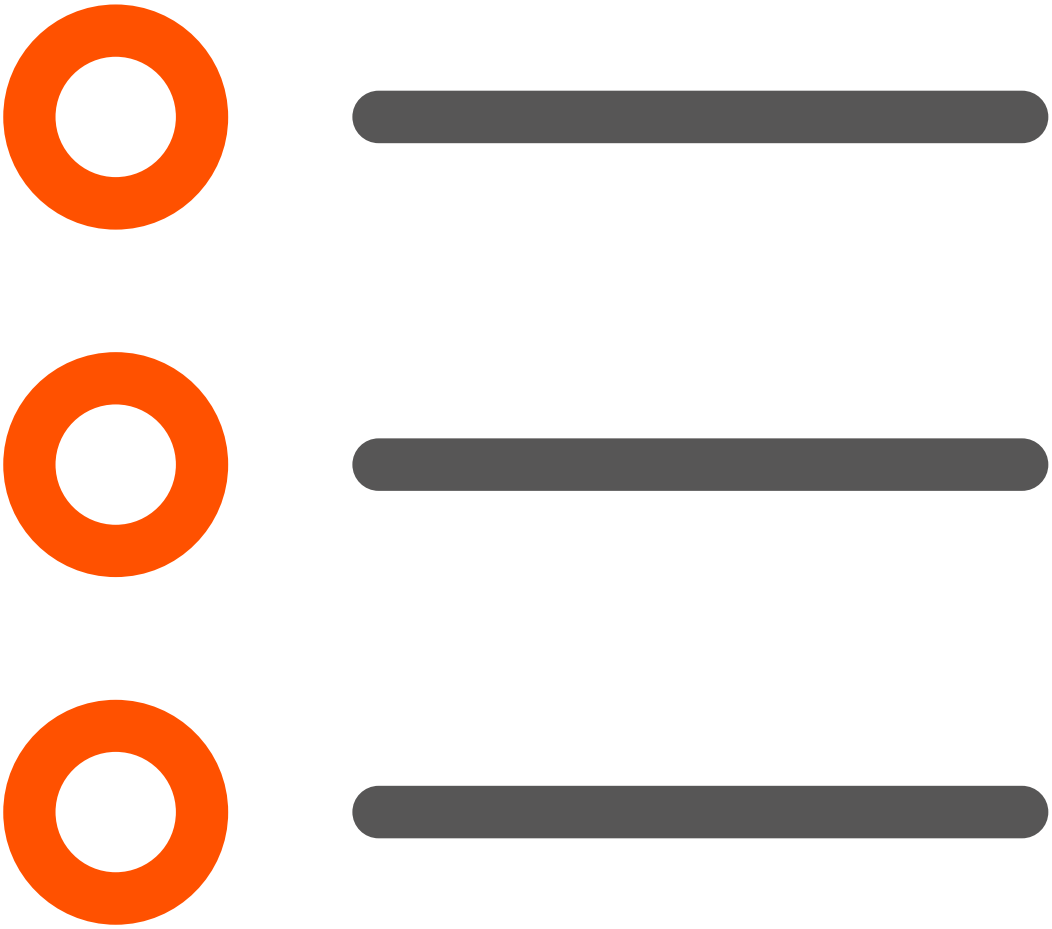


MT 05 SOL >>p. 363

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ANALYTICAL INDEX AND CODE LIST



ANALYTICAL INDEX

PRODUCT	Page
AB10	425
AB10	428
ABX 01	333
AC 110	409
AC 111	418
AC 112	403
AC 600	213
AC 601	213
AC 601 K	213
AC 602	213
AC 603	212
AC 605	212
AC 606	212
AC 608	447
AC 609	208
AC 609 (1"1/2)	208
AC 610	208
AC 611	208
AC 613 C	447
AC 613 CU	243
AC 613 F	447
AC 613 FU	243
AC 613 S	447
AC 613 SI	447
AC 613 SU	243
AC 614	447
AC 616	447
AC 616 I	447
AC 617	212
AC 617 I	220
AC 619	222
AC 619 L	222
AC 619 LS	222
AC 619 S	222
AC 620 N	207
AC 621	207
AC 622 ND	221
AC 622 NDST	221
AC 622 NS	221
AC 622 NSST	221
AC 623 N	307
AC 624	213
AC 625	207
AC 625 M	59
AC 626	245
AC 627	213
AC 628	183
AC 628	209
AC 629	208
AC 629 (1"1/2)	208
AC 630	206
AC 631	206
AC 633	245
AC 634	447
AC 635 BCM	219
AC 635 BRCM	219
AC 635 NB	218
AC 635 NR	218
AC 635 RCM	219
AC 636 NB	219
AC 636 NR	219
AC 637 N	222
AC 638	177
AC 639	209
AC 643 NB	220
AC 643 NR	220
AC 645	222
AC 645 G	222
AC 647	212
AC 649	209
AC 650	206
AC 651	59
AC 652	217
AC 654 NB	218
AC 654 NR	218
AC 655 G	322
AC 655 N	218
AC 655 NST	218
AC 657 N	206
AC 658 N	221
AC 659 NR	416
AC 665	210
AC 666	211
AC 667	210
AC 668	210
AC 669 N	221
AC 670	117
AC 671	117
AC 672	277
AC 674	216
AC 677	206
AC 678	206
AC 679	210
AC 681	211
AC 682 N	220
AC 682 NST	220
AC 691	183
AC 693	217

PRODUCT	Page
AC 693 F	217
AC 694	183
AC 701	441
AC 710 T	441
AC 820	203
AC 830	203
AC 830 P	203
AC 830 S	204
AC 840	203
AC 841 E	202
AC 850	205
AC 851	205
AC 852	205
AC 853	205
AC 860 B	204
AC 860 IB	204
AC 860 L	204
AC 873 FM	117
AC 4604	101
AC 4612	216
AC 4615 N	212
AC 4648	216
AC 6450	222
ACA 00	373
ACB 05	441
ACH 41	434
ACH 42	434
ACH 43	435
ACM 01	237
ACM 667	276
ACO 103	115
ACUL	421
ACV 01	319
AD 01	19
AD 02	19
AD 03	12
AD 03 M	12
AD 04	19
AD 05	19
AD 06	19
ADD-M	259
ADH 20	287
ADH 20	442
ADI 01	55
AEQF 01	349
AEQF 11	349
AFUL	421
AGBC 11	351
AGE 01 N	61
AGE 04	60
AGE 06	59
AGE 07	59
AGE 11	61
AGE 13	232
AGE 14	59
AGE 15	60
AGE 16	61
AGE 17	59
AGE 19	59
AGE 20	232
AGS 00	369
AGS 01	369
AGS 03	369
ALC 01	446
ALPEX DUO	123
AMCD 01	416
AMEQCP 01	416
AMF 01	239
AMIX 01	293
AMR pulse adapter	421
AMT 01	363
AMT 100	367
AMT 100 NPT	367
AMT 100 P	367
AMT 100 S	367
AMT 100 X	367
AMUL 01	277
APF 03	328
APF 03	331
AQS 01	216
AQUASTOP	214
AQUASTOP XL	215
AR 01	116
AR 02	116
AR 04	116
AR 08 MP	87
AR 08 MPL	96
AR 08 MPXL	87
AR 08 PMP	99
AR 09	116
AR 10 NP	115
AR 21	105
AR 22	105
AR 23	105
AR 24	105
AR 25	104
AR 26	104
AR 27	104

PRODUCT	Page
AR 28	104
AR 1920	116
AR 1921	116
AS 1925	106
AS 1927	106
AS 1928	106
AS 1929	106
ASM 05	371
AT 0001	22
AT 0001E	22
AUM 01	242
AUM 02	242
AUM 11 D/S	242
AUM 12 D/S	242
AVAR 03	289
AVAR 04 2W	289
AVAR 04 3W	289
AVAR 05	289
AVAR 06	289
AVAR 07	289
AVAR 08 IX	288
AVAR 10	288
AVAR 15	288
AVAR 20	288
AVAR 25	288
AVAR 26	288
AVB 00	339
AVB 10	339
AVB 10	344
AVB 20	339
AVK 01	52
AVK 01	61
AVK 02	52
AVM 1321	58
AVM 1324	58
AVM 1325	58
AVM 1326	58
AVM 1327	58
AVR 00	378
AVT 02	59
AVZS 01	443
AVZS 02	443
AVZS 11	443
B12	425
BF 400 R	223
BOC 01	418
BRA 24A	346
BRA 065	346
BRIX F	333
BRIX M	333
BU	258
CACML-I	420
CACS-D REED	419
CACSWO-I	421
CAFS-D REED	419
CAFSWO-I	421
CALORING	414
CAV-IMP	419
CBL 01	446
CBL 02	387
CC 00	177
CCWO-I	420
CHUB-EXP	433
CI 350 N	191
CI 370 N	196
CI 370 NT	196
CI 390 N	188
CI 400 FLX	182
CI 400 KC	182
CI 400 N	191
CI 400 NB	192
CI 400 NBR	191
CI 400 NR	192
CI 400 VT	182
CI 490 N	189
CI 490 NB	189
CI 490 NR	189
CI 490 NW	189
CI 552 (1"1/2)	139
CI 552 N	138
CI 553 (1"1/2)	139
CI 553 N	138
CI 554 C (1"1/2)	141
CI 554 CN	140
CI 555 C (1"1/2)	141
CI 555 CN	140
CI 562 CN	146
CI 583	162
CI 583 SP	162
CI 587 C	167
CI 588 C	164
CI 589 C	166
CI 590 C	165
CI 591 C	164
CI 592 C	167
CI 592 KC (1")	168
CI 592 KC (1"1/4)	168
CI 594 CN	147

PRODUCT	Page
CI 595 CN	148
CI 596 CN	149
CI 598	160
CI 598 SP	160
CI 599	161
CI 599 SP	161
CI 600 N	137
CI 601 N	137
CI DIRTSTOP®	318
CI DIRTSTOP® XL B	323
CI DIRTSTOP® XL P	323
CI POLIFEMO®	329
CI POLIFEMO® 1"	329
CI POLIFEMO® EXTRA	329
CLIMA-HUB 01	436
CLIMA-HUB 02	437
CLIMA-HUB 03	438
CLIMA-HUB 04	433
CLIP03	259
CLIP-AUT	259
CLIP-MAN	259
CM 01	394
COMBI M	237
COMBI MNB	237
COMBI T	237
COMBI TNB	237
CP 001 (1"1/4)	175
CP 001 M (1"1/4)	175
CP 003 (1")	173
CP 003 M (1")	173
CPS 10	305
CPS 10 A	305
CPS 10 AF	305
CPS 20	305
CPS 20 A	305
CPS 20 AF	305
CPS 30	305
CPS 30 A	305
CPS 30 AF	305
CRTH	441
CRTV 02	359
CS 200 N	193
CS 368 N	196
CS 500	142
CS 500 (1"1/2)	142
CS 501	143
CS 501 (1"1/2)	143
CS 502	144
CS 536 B (1"1/2)	144
CS 536 R (1"1/2)	144
CS 580	163
CS 584	163
CS 656 (1"1/2 | 2")	170
CS 658 (1"1/2 | 2")	171
CTC 20	287
CTC 20	442
CV 01	418
CV 02	418
DB 1405	55
DB 1406	55
DCD 212 DX	46
DCD 216 DX	46
DCS 212 SX	46
DCS 216 SX	46
DD 301	47
DD 305	47
DD 311	47
DD 327	47
DD 345	52
DD 345 B	53
DD 355	52
DD 355 B	53
DEV 01	453
DEV 02 SOL	453
DF 01	13
DF 02	13
DF 03	13
DH 01 CHROME	12
DH 01 INOX	12
DH 01 WHITE	12
DIRTSTOP® EASY	318
DIRTSTOP® MINI	315
DIRTSTOP® XL BF	322
DIRTSTOP® XL BM	322
DIRTSTOP® XL BMK	323
DIRTSTOP® XL PF	322
DIRTSTOP® XL PM	322
DIRTSTOP® XL PMK	323
DM 1415	55
DM 1416	55
DPCV XL	352
DS 302	47
DS 306	47
DS 312	47
DS 330	47
DS 346	52
DS 346 B	53
DS 356	52

PRODUCT	Page
DS 356 B	53
DS 402	49
DS 404	49
DV 011	15
DV 013	14
DV 015	17
DV 016	17
DV 017	16
DV 018	16
DV 019	15
DV 020	14
DV 021	15
DV 023	14
DV 025	16
DV 026	16
DV 027	17
DV 028	17
DV 029	15
DV 030	14
DV 031	15
DV 032	14
DV 041	15
DV 042	14
DV 101	18
DV 101 B	18
DV 102	18
DV 102 B	18
DV 103	18
DV 103 B	18
DV 104	18
DV 104 B	18
EQCP05	403
EQCP15 I	402
EQCP15 S - EQCP25 S	402
EQCP15 SI - EQCP25 SI	402
EQDYN15 S - EQDYN25 S	405
EQDYN15 SI - EQDYN25 SI	405
EQF 01	348
EQF 02	348
EQF 03	348
EQF 05	349
EQM15 - EQM25	409
ESAT-C	388
FAS	258
FAS-SLIM	258
FAST-ORG	257
FI 00	378
FI 10	378
FI 10 M	324
FIB	259
FLC 15	216
GA 00	306
GA 00 SM	306
GBC 01	351
GBC 05	351
GIU	258
GS 00 E	369
GS 10 E	369
GS 20 E	369
GWY1H	428
GWYMH	425
GWYMH	428
HD09	259
HD17	116
HEAT PUMP KIT	230
HK PE-RT	128
HMRI-K001-001	418
HMR-M	417
HMR-R	417
HS-I	420
IC-BOX 1	249
IC-BOX 2	249
IC-BOX 3	249
IC-BOX 4	249
IC-BOX 5	249
ICESTOP	309
IFWC3	394
IKK01	394
IKK02	394
IKK03	394
IKLE01	361
IS 02	309
IS 03	309
IS 04	309
IS-BOX 1	199
IS-BOX 2	199
IS-BOX 3	199
IS-BOX 4	199
IS-BOX MPLUS	201
IS-BOX PLUS	200
ISOL	258
ISOL-SOUND	258
IV 100 HT	325
IV 100 LT	325
IV 400	325
IVAR-APERT B	125
IVAR-APERT CRB	125
IVAR-APERT CRR	125

PRODUCT	Page
IVAR-APERT R	124
IVAR-APERT RCB	124
IVAR-APERT RCF	124
IVAR-APERT RCR	124
IVAR-APEX B	123
IVAR-APEX R	122
IVAR-APEX RCB	122
IVAR-APEX RCF	122
IVAR-APEX RCR	122
IVAR-ESAT DUAL	382
IVAR-ESAT DUAL HC	382
IVAR-ESAT MONO B	382
IVAR-ESAT MONO H	382
IVAR-ESAT MONO HL	382
IVAR-ESAT MONO L	382
IVAR PE-RT 5	128
IVAR PE-RT 5R	128
IVAR PE-Xa 3	127
IVAR-PE-Xa 3 RCB	127
IVAR-PE-Xa 3 RCR	127
IVAR PREFAB SYSTEMS	411
IVARSAT-H	386
IVARSAT-HL	387
IVARSAT-HLE	386
IVARSAT-L	387
IVARSAT-LE	386
JUSTO	441
JUSTO LITE	441
JUSTO LITE W	441
JUSTO W	441
KC 01 KC (1")	150
KC 01 KC (1"1/4)	150
KC 02 A (1")	152
KC 02 A (1"1/4)	152
KC 02 KC (1")	151
KC 02 KC (1"1/4)	151
KCA 02 A (1")	169
KD 301 B	50
KD 301 BN	51
KD 301 L	50
KD 301 LN	51
KD 305 B	50
KD 305 BN	51
KD 305 L	50
KD 305 LN	51
KDB 1405	55
KDB 1406	55
KDM 1415	55
KEKO 01	352
KEKO 03	352
KIT MIX SAP-C	393
KIT R IVARSAT	387
KIT R SAP	392
KIT R SAP-C	393
KS 302 B	50
KS 302 BN	51
KS 302 L	50
KS 302 LN	51
KS 306 B	50
KS 306 BN	51
KS 306 L	50
KS 306 LN	51
KSA 035 (1"1/2)	145
KSA 037 (1"1/2)	145
LAGO BASIC	439
LEGIO-BOX 1	361
LEGIO-BOX 2	361
LEGIO-BOX 3	361
LEGIO-HUB	359
LOCK 01	418
M 01	416
M 106	287
M 106	442
M-BUS pulse adapter	421
MC3	412
MC3A	413
MC3A I	413
MC15 - MC25	410
MC31	412
MC32	412
MC33	412
MC33A	413
MC33A I	413
MC34	412
MC34A	413
MC34A I	413
MC45	407
MCC 04 B	217
MCC 04 R	217
MCC 04 W	217
MCC 05	217
MF 01	239
MGW 01	394
MINIGRAPH	253
MIX 3WMC	294
MIX 3WML	293
MIX 4W	295
MIX 24	296

PRODUCT	Page
MOD 02	425
MOD 02	428
MP 5607	86
MP 5608	74
MP 5608 XL	74
MP 5609	76
MP 5610 B	84
MP 5610 R	84
MP 5613	76
MP 5613 XL	76
MP 5700	70
MP 5700 R	70
MP 5700 XL	70
MP 5700 XLR	70
MP 5701	85
MP 5702	86
MP 5703	76
MP 5703 XL	76
MP 5704	71
MP 5704 XL	71
MP 5705	76
MP 5710	71
MP 5710 XL	71
MP 5711	75
MP 5711 L	75
MP 5711 XL	75
MP 5712	77
MP 5712 L	77
MP 5712 XL	77
MP 5715	86
MP 5716	86
MP 5717	77
MP 5720	71
MP 5720 RC	72
MP 5720 RCL	73
MP 5720 RL	73
MP 5720 RLL	72
MP 5720 RR	74
MP 5720 XL	71
MP 5720 XLRC	72
MP 5720 XLRCL	73
MP 5720 XLRL	73
MP 5720 XLRLL	72
MP 5721	75
MP 5722	78
MP 5722 XL	78
MP 5723	85
MP 5724	85
MP 5725	85
MP 5728	74
MP 5729	79
MP 5730	79
MP 5736	83
MP 5737	79
MP 5738	79
MP 5760	81
MP 5761	81
MP 5762	81
MP 5763	85
MP 5764	85
MP 5767	84
MP 5780	81
MP 5781	81
MPL 5607	93
MPL 5608	92
MPL 5609	93
MPL 5610 B	96
MPL 5610 R	96
MPL 5613	92
MPL 5700	90
MPL 5700 R	90
MPL 5701	95
MPL 5702	95
MPL 5703	93
MPL 5704	90
MPL 5705	93
MPL 5710	90
MPL 5711	92
MPL 5712	92
MPL 5712 L	93
MPL 5715	95
MPL 5716	95
MPL 5717	93
MPL 5720	90
MPL 5720 RC	91
MPL 5720 RCL	91
MPL 5720 RL	91
MPL 5720 RLL	90
MPL 5720 RR	91
MPL 5721	92
MPL 5722	92
MPL 5724	95
MPL 5725	95
MPL 5728	94
MPL 5729	91
MPL 5730	91
MPL 5760	94
MPL 5761	94

PRODUCT	Page
MPL 5762	94
MPL 5763	95
MPL 5764	95
MPL 5780	94
MPL 5781	94
MR 01	297
MR 02	297
MR 03	297
MR 22	299
MR 32	299
MSAT-C	389
MT 00	363
MT 00 HT	363
MT 00 SOL	363
MT 05	363
MT 05 HT	363
MT 05 SOL	363
MT 15	365
MT 15 HT	365
MT 15 SOL	365
MT 25	366
MT 25 HT	366
MT 25 SOL	366
MT 35	366
MT 35 HT	366
MT 35 SOL	366
MUL 1H/1L	269
MUL 1H/2L	268
MUL 1HE/1LE	267
MUL 1HE/2LE	266
MUL 2H	269
MUL 2H/1L	268
MUL 2HE	267
MUL 2HE/1LE	266
MUL 2L	269
MUL 2LE	267
MUL 3H	268
MUL 3HE	266
MUL 3L	268
MUL 3LE	266
MUL 10 E	270
MUL 11	270
MUL 20	270
MUL 20 E	270
MUL 0032	271
MUL 0032 AC	271
MUL 0033	271
MUL 0033 AC	271
MUL-C 1HE/1LE	275
MUL-C 1HE/2LE	274
MUL-C 2HE	275
MUL-C 2HE/1LE	274
MUL-C 2LE	275
MUL-C 3HE	274
MUL-C 3LE	274
MUL-C 10 E	276
MUL-C 20 E	276
MUL-C 0032 AC	276
MUL-C 0033 AC	276
NEOVENT LHF	301
NEOVENT LUF	301
NEOVENT LUM	301
NEOVENT MF	302
NEOVENT MM	302
NET-FLAT	259
PICC 01	342
PICC 02	342
PICC 03	342
PICC 11	343
PICC 12	343
PICC 13	343
PICC 20	345
PICC 22	344
PICV 00	342
PICV 05	342
PICV 10	342
PICV 100	343
PICV 105	343
PICV 110	343
PICV 200	344
PICV 205	344
PICV 210	344
PICV 300	345
PICV XL	346
PMP 5700	98
PMP 5700 R	98
PMP 5710	98
PMP 5720	98
PMP 5720 RC	98
PMP 5720 RCL	99
PMP 5720 RL	98
PMP 5720 RLL	99
PMP 5720 RR	99
POLIFEMO®	328
POLIFEMO® 1"	328
POLIFEMO® EASY	331
POLIFEMO® EXTRA	328
PRO-FIX 5732 MP	82

PRODUCT	Page
PRO-FIX 5732 RM	103
PRV	375
PRV M	375
PRV NB	375
PT 1000	393
PT 5706	116
RA 761	110
RA 761 N	110
RA 762	111
RA 861	111
RA 862	111
RDP 00	376
RDP 10	376
RDP 20	376
RDP 30	377
RDP 40	377
REGCU	258
RF 800	102
RF 810	102
RF 811	102
RF 820	102
RM 780	103
RM 4760	103
RM 4770	103
RP 731	110
RP 731 N	110
RP 732	111
RP 5700	259
RPT1H	428
RPTMH	428
RR 701	61
RR 702	106
RR 702 OPTIMA	19
RR 703	101
RR 781 N	110
RR 4608	100
RR 4613	61
RR 4613	101
RR 4700	100
RR 4710	100
RR 4711	100
RR 4712	101
RR 4720	100
RR 4721	100
RR 4722	101
RTV A	358
RTV B	358
RTV C	358
RV 01	233
RV 01	241
RV 01	277
RV 01	287
RV 01	442
RV 03	343
RW 701 JL	441
RW 711 J	441
RWM	419
SAFEMIX 05	371
SAFEMIX 15	371
SAP	392
SAP-C	393
SC 01 COMBI	237
SC 01 EQM	415
SF 1325 F	223
SF 1335 F	223
SF 1570	223
SOUND	258
SS 1710 B	113
SS 1710 BR	113
SS 1710 R	113
SS 1711 B	113
SS 1711 R	113
SS 1740	113
T 1500	22
T 5000	22
T 5000 CHROME	22
T 5005	22
T 5010	23
T 5011	232
T 5011 U	241
T 5011 U	277
T 5012	232
T 5012 U	287
T 5020	23
T 5030	23
TA 420	109
TA 420 P	109
TA 4420	108
TE 3003	343
TE 3040	444
TE 3040 IV	182
TE 3040 IV	445
TE 3050 M	444
TE 3061	233
TE 3061	287
TE 3061	445
TE 4040 A	444
TE 6040	445

PRODUCT	Page
TE 6050 M	182
TE 6050 M	445
TECHNO TNB	238
TEST KIT DW IVARSAT	387
TEST KIT H/B IVARSAT	387
THERM	255
TM 00	339
TM 10	339
TM 3053	217
TP 410	109
TP 410 P	109
TP 4410	108
TP 4410 HK	108
TR 401	110
TR 402	110
TR 430	109
TR 430 P	109
TR 4430	108
TR 4430-18	108
UF 01	244
UMC 01	241
UMC 01 D/S	241
US-M	417
US-R	417
VA 80	217
VAR 00	282
VAR 00 IX	286
VAR 10	280
VAR 10 IX	284
VAR 10 IX SP	284
VAR 10 SP	280
VAR 20	281
VAR 20 IX	285
VAR 20 IX SP	285
VAR 20 SP	281
VAR 21	280
VAR 21 IX	284
VAR 21 IX SP	284
VAR 21 SP	280
VAR 30 2W	282
VAR 30 3W	282
VAR 30 IX-2W	286
VAR 30 IX-3W	286
VAR 301 IX-2W	286
VAR 301 IX-3W	286
VAR 302 2W	282
VAR 302 3W	282
VAR 303 2W	283
VAR 303 3W	283
VARITANK 50	291
VB 00	338
VB 10	338
VB 20	338
VCD 2162 DX	33
VCD 2162 DXT	33
VCD 2162 N DX	41
VCD 2162 N DXT	41
VCD 2162 NH DX	27
VCD 2166 DX	32
VCD 2166 DXT	32
VCD 2166 N DX	40
VCD 2166 N DXT	40
VCD 2166 NH DX	27
VCR 232	44
VCR 236	44
VCR 2132	31
VCR 2132 N	39
VCR 2132 NH	26
VCR 2132 NT	39
VCR 2132 T	31
VCR 2136	30
VCR 2136 N	38
VCR 2136 NH	26
VCR 2136 NT	38
VCR 2136 T	30
VCS 2162 NH SX	27
VCS 2162 N SX	41
VCS 2162 N SXT	41
VCS 2162 SX	33
VCS 2162 SXT	33
VCS 2166 NH SX	27
VCS 2166 N SX	40
VCS 2166 N SXT	40
VCS 2166 SX	32
VCS 2166 SXT	32
VD 001 DRM	45
VD 005 DRM	45
VD 201	44
VD 205	44
VD 2101	31
VD 2101 N	39
VD 2101 NH	26
VD 2101 NT	39
VD 2101 T	31
VD 2101 XL	35
VD 2105	30
VD 2105 N	38
VD 2105 NH	26

PRODUCT	Page
VD 2105 NT	38
VD 2105 T	30
VD 2111	34
VD 2111 N	42
VD 2115	34
VD 2115 N	42
VD 2127	34
VD 2127 N	42
VD 2127 NT	42
VD 2127 T	34
VD 2145	53
VD 2155	53
VDC 31 PL	216
VDS 01	232
VDS 02	233
VFC 01	63
VFC 02	63
VFC 03	63
VFS	394
VIT 51	53
VIT 52	53
VM 1303 R	56
VM 1405	57
VM 1415	57
VNR 01	373
VR 00	373
VS 002 DRM	45
VS 006 DRM	45
VS 102	49
VS 104	49
VS 202	44
VS 206	44
VS 1102	49
VS 1104	49
VS 2102	31
VS 2102 N	39
VS 2102 NH	26
VS 2102 NT	39
VS 2102 T	31
VS 2102 XL	35
VS 2106	30
VS 2106 N	38
VS 2106 NH	26
VS 2106 NT	38
VS 2106 T	30
VS 2146	53
VS 2156	53
VSC 00 H	304
VSC 00 S	372
VSC 01 H	304
VSC 01 S	372
VSC 05 H	304
VSC 05 S	372
VSC 10 H	304
VSC 10 S	372
VSC 11 H	304
VSC 11 S	372
VSC 15 H	304
VSC 15 S	372
VS SAP 01	393
VS SAP 02	393
VTC 30	216
VTC 30 D	216
VTC 30 OTD	216
VTC 30 PL	216
VTT 02	59
VTT 03	59
VZ 00	225
VZ 20	177
VZ 30	225
VZS 00	225
VZS 05	225
VZS 10	225
WFK	419
WFW	419
WILO3F	245
WILO4F	245



CODE LIST

CODE	Page
0EPJ00	435
0KC2TH	434
00M100001	416
00M100003	416
0SDTH01	434
43000	394
46460-50	115
46462-50	115
46463-50	115
48058-50	115
48060-50	115
48061-50	115
48062-50	115
48066-50	115
48068-50	115
48069-50	115
70009	394
78040	394
78100	394
78400	394
81215	393
89213	394
140039	116
140042	116
140043	116
140044	116
140045	116
140060	116
140066	116
140068	116
140069	116
140081	116
140082	116
200085	204
200086	203
200089	203
200090	203
200091	204
200091G4	204
200094	203
200147	277
200171	202
200172	202
200173	202
200174	202
200186	203
200190	203
200191G6	204
200194	203
200199	204
200286	203
200290	203
200294	203
200299	204
200386	203
200390	203
200486	203
200490	203
200586	203
200590	203
200686	203
200690	203
200786	203
200790	203
200886	203
200890	203
200986	203
400002N	138
400003N	138
400004N	138
400005N	138
400006N	138
400007N	138
400008N	138
400009N	138
400010N	138
400011N	138
400012N	138
400022CN	140
400023CN	140
400024CN	140
400025CN	140
400026CN	140
400027CN	140
400028CN	140
400029CN	140
400030CN	140
400031CN	140
400032CN	140
400042N	138
400043N	138
400044N	138
400045N	138
400046N	138
400047N	138
400048N	138
400049N	138
400050N	138
400051N	138
400052N	138
400053N	138
400082N	138
400083N	138
400084N	138
400085N	138
400086N	138
400087N	138
400088N	138
400089N	138
400090N	138
400091N	138
400092N	138
400093N	138
400122CN	140
400123CN	140
400124CN	140
400125CN	140
400126CN	140
400127CN	140
400128CN	140
400129CN	140
400130CN	140
400131CN	140
400132CN	140
400133CN	140
400242CN	146
400243CN	146
400244CN	146
400245CN	146
400246CN	146
400247CN	146
400248CN	146
400249CN	146
400250CN	146
400251CN	146
400252CN	146
400253CN	146
400282CN	146
400283CN	146
400284CN	146
400285CN	146
400286CN	146
400287CN	146
400288CN	146
400289CN	146
400290CN	146
400291CN	146
400292CN	146
400293CN	146
400342CN	147
400343CN	147
400344CN	147
400345CN	147
400346CN	147
400347CN	147
400348CN	147
400349CN	147
400350CN	147
400351CN	147
400352CN	147
400362	143
400363	143
400364	143
400365	143
400366	143
400367	143
400368	143
400369	143
400370	143
400371	143
400372	143
400373	143
400392	144
400393	144
400394	144
400395	144
400396	144
400397	144
400398	144
400399	144
400400	144
400401	144
400402	144
400403	144
400432	144
400433	144
400434	144
400435	144
400436	144
400437	144
400438	144
400439	144
400440	144
400441	144
400442	144
400443	144
400722	173
400722M	173
400723	173
400723M	173
400724	173
400724M	173
400725	173
400725M	173
400726	173
400726M	173
400727	173
400727M	173
400728	173
400728M	173
400729	173
400729M	173
400730	173
400730M	173
400731	173
400731M	173
400732	173
400732M	173
400812	144
400813	144
400814	144
400815	144
400816	144
400817	144
400818	144
400819	144
400820	144
400821	144
400822	144
410702	175
410702M	175
410703	175
410703M	175
410704	175
410704M	175
410705	175
410705M	175
410706	175
410706M	175
410707	175
410707M	175
410708	175
410708M	175
410709	175
410709M	175
410710	175
410710M	175
410711	175
410711M	175
410712	175
410712M	175
410713	175
410713M	175
410714	175
410714M	175
410715	175
410715M	175
410716	175
410716M	175
500007	109
500009	108
500012	108
500014	109
500016	109
500022	213
500024	108
500025	108
500026	108
500028M	444
500029	117
500030	117
500032	142
500033	142
500034	142
500035	142
500036	142
500037	142
500038	142
500039	142
500040	142
500041	142
500042	142
500043	110
500043N	110
500046	217
500048	45
500048R	45
500048RC	45
500048RCR	45
500049	109
500053	47
500053R	47
500053RC	47
500053RCR	47
500059	100
500063	212
500064	210
500064P80	210
500070	212
500071	212
500072	212
500073	222
500073G	222
500077	100
500080	61
500080	101
500081	61
500081	101
500082CN	148
500083CN	148
500084CN	148
500085CN	148
500086CN	148
500087CN	148
500088CN	148
500089CN	148
500090CN	148
500091CN	148
500092CN	148
500093CN	148
500097	100
500098	100
500099	100
500106	61
500109	59
500110	59
500118	100
500119	101
500120	101
500124	222
500124G	222
500125	206
500126	211
500126P80	211
500127	210
500127G	210
500127GP80	210
500127P80	210
500128G	210
500131	113
500131R	113
500132	113
500132R	113
500134	183
500135	100
500136	100
500137	100
500138	100
500139	101
500140	101
500141	109
500148	108
500154	113
500157	108
500161	58
500174	61
500174	101
500175	61
500175	101
500176	100
500177	100
500181	100
500193	100
500194	100
500195	101
500196	101
500197	101
500198	101
500199	100
500201	61
500203	110
500203N	110
500250	22
500255	206
500256	206
500257	206
500258	206
500280	213
500304MP	84
500304MPL	96
500304RMP	84
500304RMPL	96
500306MP	84
500306MPL	96
500306RMP	84
500306RMPL	96
500307	103
500308	31
500308RC	31
500308T	31
500308TRC	31
500309	31
500309RC	31
500309T	31
500309TRC	31
500317	52
500317B	53
500323	52
500323B	53
500357	212
500357N	212
500377	100
500378	100
500379	223
500381	55
500382	39
500382RC	39
500382T	39
500382TRC	39
500384	39
500384RC	39
500384T	39
500384TRC	39
500386	212
500386N	212
500387	212
500387N	212
500388	232
500388M	233
500389N	307
500393	55
500394	55
500395	55
500399	31
500399RC	31
500399T	31
500399TRC	31
500400	108
500401	103
500403	232
500403M	233
500405	103
500406	116
500407	116
500408	116
500409	116
500410	237
500410NB	237
500410PE	237
500414	239
500414P	239
500414PE	239
500417	108
500423	53
500424	53
500430	32
500430R	32
500430RC	32
500430RCR	32
500430T	32
500430TR	32
500430TRC	32
500430TRCR	32
500431	40
500431R	40
500431RC	40
500431RCR	40
500431T	40
500431TR	40
500431TRC	40
500431TRCR	40
500433	33
500433RC	33
500433T	33
500433TRC	33
500439	31
500439RC	31
500439T	31
500439TRC	31
500440	31
500440RC	31
500440T	31
500440TRC	31
500454	237
500454NB	237
500454P	237
500454PE	237
500456	242
500456D	242
500456S	242
500459	39
500459RC	39
500459T	39
500459TRC	39
500462CN	140
500463CN	140
500464CN	140
500465CN	140
500466CN	140
500467CN	140

CODE	Page
500468CN	140
500469CN	140
500470CN	140
500471CN	140
500472CN	140
500473	30
500473R	30
500473RC	30
500473RCR	30
500473T	30
500473TR	30
500473TRC	30
500473TRCR	30
500474	38
500474R	38
500474RC	38
500474RCR	38
500474T	38
500474TR	38
500474TRC	38
500474TRCR	38
500479	34
500480	42
500495	215
500496	34
500497	42
500499	363
500500	31
500500RC	31
500500T	31
500500TRC	31
500501	31
500501RC	31
500501T	31
500501TRC	31
500502	35
500502RC	35
500503	35
500503RC	35
500504	35
500504RC	35
500505	35
500505RC	35
500506	22
500507	27
500507RC	27
500508	27
500508RC	27
500509	27
500509R	27
500509RC	27
500509RCR	27
500510	27
500510RC	27
500511	27
500511RC	27
500512	27
500512R	27
500512RC	27
500512RCR	27
500513	39
500513RC	39
500513T	39
500513TRC	39
500518	32
500518R	32
500518RC	32
500518RCR	32
500518T	32
500518TR	32
500518TRC	32
500518TRCR	32
500519	40
500519R	40
500519RC	40
500519RCR	40
500519T	40
500519TR	40
500519TRC	40
500519TRCR	40
500522	214
500523	222
500526	222
500528	222
500529	222
500530	232
500530U	232
500543	59
500544	59
500546	41
500546RC	41
500546T	41
500546TRC	41
500547	41
500547RC	41
500547T	41
500547TRC	41
500557	47
500558	30
500558R	30
500558RC	30
500558RCR	30
500558T	30
500558TR	30
500558TRC	30
500558TRCR	30
500561	45
500561RC	45
500562	45
500562RC	45
500563	45
500563RC	45
500565	45
500565RC	45
500566	45
500566RC	45
500567	45
500567RC	45
500571	45
500571R	45
500571RC	45
500571RCR	45
500574	106
500579	108
500584	58
500585	58
500586	242
500586D	242
500586S	242
500590	108
500591	108
500594	103
500605N	61
500623	47
500624	61
500624N	61
500625	213
500625N	213
500632	61
500632N	61
500638	232
500641	208
500642	47
500642RC	47
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CODE LIST

CODE	Page
501410	142
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503487	162
503488	162

CODE	Page
503489	162
503490	162
503491	162
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507036	358
507036I	358
507037	358
507037I	358

CODE LIST

CODE	Page
507038	358
507038I	358
507039	361
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510138MP	70

CODE	Page
510138PMP	98
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512124MP	79
512125MP	79
512126MP	79
512127MP	79
513001CMP	81
513001CMPL	94
513001LMP	81
513001LMPL	94
513001MP	81
513001MPHD	81
513001MPL	94
513002CMP	81
513002CMPL	94
513002LMP	81
513002LMPL	94
513002MP	81
513002MPL	94
513003MP	81
513003MPL	94
513004MP	81
513004MPL	94
513005MP	85
513007MP	85
513008MP	85
513008MPL	95
513009MP	85
513009MPL	95
513010MP	85
513011MP	85
513012MP	85
513012MPL	95

CODE LIST

CODE	Page
513013MP	85
513013MPL	95
513014CMP	81
513014MP	81
513020MP	76
513024CMP	81
513024CMPL	94
513024LMP	81
513024LMPL	94
513024MP	81
513024MPL	94
513025CMP	81
513025CMPL	94
513025LMP	81
513025LMPL	94
513025MP	81
513025MPL	94
513026CMP	81
513026MP	81
513027CMP	81
513027CMPL	94
513027LMP	81
513027LMPL	94
513027MP	81
513027MPL	94
513028CMP	81
513028MP	81
513029CMP	81
513029CMPL	94
513029LMP	81
513029LMPL	94
513029MP	81
513029MPL	94
513030MP	85
513030MPL	95
513032MP	85
513032MPL	95
513033MP	85
513034MP	85
513035MP	85
513035MPL	95
513042MP	84
513044MP	84
514202	166
514203	166
514204	166
514205	166
514206	166
514207	166
514208	166
514209	166
514210	166
514211	166
514212	166
514213	166
514242KC	168
514243KC	168
514244KC	168
514245KC	168
514246KC	168
514247KC	168
514248KC	168
514249KC	168
514250KC	168
514251KC	168
514252KC	168
514282	165
514283	165
514284	165
514285	165
514286	165
514287	165
514288	165
514289	165
514290	165
514291	165
514292	165
514362	162
514363	162
514364	162
514365	162
514366	162
514367	162
514368	162
514369	162
514370	162
514371	162
514372	162
514373	162
514374	162
514375	162
520001	106
520003	106
520022	245
520041	108
520046	387
520047	387
520060	113
520080	46
520080RC	46
520081	46
520081RC	46
520084	46
520084R	46
520084RC	46
520084RCR	46
520085	46
520085R	46
520085RC	46
520085RCR	46
520110	46
520110RC	46
520111	46
520111RC	46
520119	387
520126	319
520132	218
520133	218
520172	56
520173	56
520174SB	50
520174SBRC	50
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520174VB	51
520174VBRC	51
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520174VLRC	51
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520175VB	51
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520175VL	51
520175VLRC	51
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520179VL	51
520179VLRC	51
520180SB	50
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520180VBRC	51
520180VL	51
520180VLRC	51
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520181VL	51
520181VLRC	51
520188SB	50
520188SBRC	50
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520188VB	51
520188VBRC	51
520188VL	51
520188VLRC	51
520189SB	50
520189SBRC	50
520189SL	50
520189SLRC	50
520189VB	51
520189VBRC	51
520189VL	51
520189VLRC	51
520194	322
520195	322
520196	322
520197	322
520203	333
520204	55
520205	55
520206	55
520210	328
520211	328
520212	328
520213	328
520213	331
520214	329
520215	329
520216	329
520217	318
520218	328
520220	331
520300	322
520300I	322
520301	322
520301I	322
520302	322
520302I	322
520303	322
520303I	322
520304	322
520304I	322
520305	322
520305I	322
520311	322
520311I	322
520312	323
520313	323
520314	323
520315	322
520315I	322
520316	322
520316I	322
520317	322
520317I	322
520320	323
520321	323
520350	333
520351	333
520352	333
520353	333
520360	318
520360W	318
520416	418
520417	418
520432	418
520434	418
520435	418
520436	418
520437	418
520462	421
520470	288
520471	288
520500	367
520501	367
520502	367
520503	367
520504	367
520505	367
520506	367
520507	367
520508	367
520509	367
520510	367
520511	367
520512	367
520513	367
520514	367
520515	367
520516	367
520517	367
520518	367
520519	367
520520	367
520521	367
520522	367
520523	367
520524	367
520525	367
520526	367
520527	367
520530MP	82
520531MP	82
520532	103
520550	315
520553	323
520554	323
520555	315
520600	369
520601	369
520602	369
520603	369
520604	369
520605	369
520606	369
520607	369
520608	369
530004	18
530004B	18
530004INOX	18
530004INOXB	18
530004WHITE	18
530004WHITEB	18
530005	18
530005B	18
530005INOX	18
530005INOXB	18
530005WHITE	18
530005WHITEB	18
530006	18
530006B	18
530006INOX	18
530006INOXB	18
530006WHITE	18
530006WHITEB	18
530007	18
530007B	18
530007INOX	18
530007INOXB	18
530007WHITE	18
530007WHITEB	18
530008	14
530008INOX	14
530008WHITE	14
530009	14
530009INOX	14
530009WHITE	14
530010	17
530010INOX	17
530010WHITE	17
530011	16
530011INOX	16
530011WHITE	16
530012	16
530012INOX	16
530012WHITE	16
530013	17
530013INOX	17
530013WHITE	17
530014	13
530014INOX	13
530015	13
530015INOX	13
530016	13
530016INOX	13
530021	12
530021INOX	12
530021WHITE	12
530024	15
530024INOX	15
530024WHITE	15
530025	15
530025INOX	15
530025WHITE	15
530026	17
530026INOX	17
530026WHITE	17
530027	16
530027INOX	16
530027WHITE	16
530028	16
530028INOX	16
530028WHITE	16
530029	17
530029INOX	17
530029WHITE	17
530030	19
530031	19
530032	19
530032INOX	19
530032WHITE	19
530033	12
530033INOX	12
530033M	12
530033MINOX	12
530033MWHITE	12
530033WHITE	12
530038	15
530038INOX	15
530038WHITE	15
530039	15
530039INOX	15
530039WHITE	15
530040	14
530040INOX	14
530040WHITE	14
530041	14
530041INOX	14
530041WHITE	14
530042	15
530042INOX	15
530042WHITE	15
530043	15
530043INOX	15
530043WHITE	15
530044	14
530044INOX	14
530044WHITE	14
530045	14
530045INOX	14
530045WHITE	14
530046	13
530046INOX	13
530047	13
530047INOX	13
530048	13
530048INOX	13
530049	13
530049INOX	13
530052	13
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530053	13
530053INOX	13
530055	19
530055WHITE	19
530056	19
530056WHITE	19
530057	19
530057WHITE	19
530058	19
530058WHITE	19
530059	19
530059WHITE	19
530060	19
530060WHITE	19
530061	19
530061WHITE	19
530062	19
530062WHITE	19
530063	13
530063INOX	13
530066	13
530066INOX	13
530071	230
530071PE	230
540020	203
540021	203
540022	203
540023	203
550009	213
550015	55
550016	213
550016N	213
550028	213
550042	110
550042N	110
550044NPL	216
550084	213
550085	213
550086	213
550087	213
550090	213
550091	213
550092	213
550093	213
550094	213
550095	213
550096	212
550097	212
550098	212
550099	212
550100	348
550100SI	348
550101	348
550101SI	348
550103	348
550103SI	348
550104	348
550104SI	348
550105	348
550105SI	348
550106	348
550106SI	348
550109	348
550109SI	348
550110	348
550110SI	348
550111	348
550111SI	348
550112	348
550112SI	348
550113	348
550113SI	348

CODE	Page
550114	348
550114SI	348
550115	348
550115SI	348
550116	348
550116SI	348
550117	348
550117SI	348
550118	348
550118SI	348
550119	349
550126	346
550127	346
550128	346
550129	346
550130	346
550131	352
550132	352
550133	352
550134	352
550135	352
550136	352
550137	352
550138	352
550139	352
550140	352
550141	352
550142	352
550143	352
550144	352
550145	352
550146	352
550149	349
550150	349
550151	349
550160SI	348
550161SI	348
550162SI	348
550163SI	348
550164SI	348
550165SI	348
550166SI	348
550167SI	348
550168SI	348
550170	351
550171	351
550196	105
550197	105
550198	105
550199	105
550201	223
550202	223
550203	223
550204	223
550205	223
550206	223
550551	213
550551N	213
550552	213
550552N	213
550627IX	286
550628IX	286
550632	280
550632D	280
550632DIX	284
550632G	280
550632GIX	284
550632IX	284
550632P	280
550632PE	280
550632PEIX	284
550632PIX	284
550633	280
550633D	280
550633DIX	284
550633G	280
550633GIX	284
550633IX	284
550633P	280
550633PE	280
550633PEIX	284
550633PIX	284
550634	282
550634IX	286
550635	288
550636	288
550637	288
550638	282
550638IX	286
550639	282
550639IX	286
550640	289
550641	289
550642	289
550643	289
550644	289
550644D	289
550644G	289
550644W	289
550645	282
550646	282
550647	291
550648	283
550649	283
550700	225
550705	177
550706	177
550710	225
550711	225
550715	225
550715P80	225
553003	59
560001	59
560002	139
560002S	139
560003	139
560003S	139
560004	139
560004S	139
560005	139
560005S	139
560006	139
560006S	139
560007	139
560007S	139
560008	139
560008S	139
560009	139
560009S	139
560010	139
560010S	139
560011	139
560011S	139
560012	139
560012S	139
560013	139
560022	142
560022S	143
560023	142
560023S	143
560024	142
560024S	143
560025	142
560025S	143
560026	142
560026S	143
560027	142
560027S	143
560028	142
560028S	143
560029	142
560029S	143
560030	142
560030S	143
560031	142
560031S	143
560032	142
560032S	143
560033	142
560033S	143
560042C	141
560042SC	141
560043C	141
560043SC	141
560044C	141
560044SC	141
560045C	141
560045SC	141
560046C	141
560046SC	141
560047C	141
560047SC	141
560048C	141
560048SC	141
560049C	141
560049SC	141
560050C	141
560050SC	141
560051C	141
560051SC	141
560052C	141
560052SC	141
560053C	141
570002N	110
570005N	110
570007N	110
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570200	63
570201	63
570202	63
570203	63
570204	63
570205	63
570206	63
570207	63
570208	63
570209	63
570210	63
570211	63
570212	63
570213	63
570214	63
570216	63
570220	63
570221	63
570224	206
570225	206
570225P	206
570226	210
570226P	210
570226P80	210
570226PP80	210
570227	211
570227P	211
570227P80	211
570227PP80	211
580000	447
580000U	243
580001	447
580001U	243
580002	447
580003	447
580007	447
580008	447
580009	447
580010	441
580011	441
580014	447
580014U	243
580018	441
580020	447
580021	441
580022	441
580023	441
580024	441
580025	441
590065	342
590066	342
590067	343
590068	343
590069	342
590070	343
590071	343
590072	343
590073	342
590074	343
590075	343
590076	343
590082	213
590099	342
590100	342
590101	342
590102	342
590103	342
590104	342
590105	342
590106	342
590107	342
590108	342
590109	342
590110	343
590111	343
590112	343
590113	343
590114	343
590115	343
590116	342
590117	342
590118	342
590119	342
590120	342
590121	342
590122	343
590123	342
590124	342
590125	343
590126	344
590127	342
590130	425
590133	425
590133	428
590134	425
590134	428
590135	425
590135	428
590138	428
590140	428
590141	342
590142	344
590143	344
590144	342
590145	342
590146	344
590147	344
590148	342
590149	342
590150	344
590151	344
590153	425
590153	428
590154	428
590200	345
590201	345
590202	345
590203	345
590204	345
590205	345
590206	345
590207	345
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590209	345
590210	345
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590226	345
590227	345
590228	345
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590230	345
590231	345
590232	345
590233	345
590234	345
590235	345
590236	345
590237	345
590238	345
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590258	345
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590267	345
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590296	345
590297	345
590298	345
590299	345
590300	345
590301	345
590302	345
590303	345
591142	22
5003891N	307
5016135	57
5016145	57
5090303	378
5090313	378
5090323	378
5090333	378
5090343	378
5090353	378
5217380-320	115
5506312	281
5506312D	281
5506312DIX	285
5506312G	281
5506312GIX	285
5506312IX	285
5506312P	281
5506312PE	281
5506312PEIX	285
5506312PIX	285
5506314	281
5506314D	281
5506314DIX	285
5506314G	281
5506314GIX	285
5506314IX	285
5506314P	281
5506314PE	281
5506314PEIX	285
5506314PIX	285
5506316	281
5506316D	281
5506316DIX	285
5506316G	281
5506316GIX	285
5506316IX	285
5506316P	281
5506316PE	281
5506316PEIX	285
5506316PIX	285
5506318	281
5506318D	281
5506318DIX	285
5506318G	281
5506318GIX	285
5506318IX	285
5506318P	281
5506318PE	281
5506318PEIX	285
5506318PIX	285
5702303	304
5702307	372
5702313	304
5702317	372
5702323	304
5702327	372
5702333	304
5702337	372
5702343	304
5702347	372
5702353	304
5702357	372
5702363	304
5702367	372
5702373	304
5702377	372

CODE LIST

CODE	Page
5702443	304
5702447	372
5702453	304
5702457	372
5702463	304
5702467	372
5702473	304
5702477	372
5702500	309
5702501	309
5702502	309
5702503	309
5702504	309
51040225	170
51040325	170
51040425	170
51040525	170
51040625	170
51040725	170
51040825	170
51040925	170
51041025	170
51041125	170
51041225	170
51046225	170
51046325	170
51046425	170
51046525	170
51046625	170
51046725	170
51046825	170
51046925	170
51047025	170
51047125	170
51047225	170
99797309	439
550100150	349
550100150SI	349
550100300	349
550100300SI	349
550100450	349
550100450SI	349
550100600	349
550100600SI	349
550113150	349
550113150SI	349
550113300	349
550113300SI	349
550113450	349
550113450SI	349
550113600	349
550113600SI	349
550115150	349
550115150SI	349
550115300	349
550115300SI	349
550115450	349
550115450SI	349
550115600	349
550115600SI	349
550117150	349
550117150SI	349
550117300	349
550117300SI	349
550117450	349
550117450SI	349
550117600	349
550117600SI	349
550170100	351
550170200	351
550170300	351
ACUL25	421
ACUL32	421
ACUL40	421
ACUL50	421
ADA4	421
ADD-10M	259
AFUL25	421
AFUL32	421
AFUL40	421
AFUL50	421
ALC01	446
ALPEX-16B	123
ALPEX-20B	123
ALPEX-26B	123
ALPEX-32B	123
ALPEX-40B	123
ALPEX-50B	123
ALPEX-63B	123
BU-100	258
CA0001	116
CA0002	116
CA0003	116
CA0004	116
CA0005	116
CA0006	116
CA0007	116
CA0008	116
CA0009	116
CA0013	116
CA0015	116
CA0016	116
CA0017	116
CACML25IF	420
CACML32IF	420
CACML40IF	420
CACSWO65I	421
CACSWO80I	421
CACSWO100I	421
CACSWO125I	421
CACSWO150I	421
CACSWO200I	421
CAFSWO65I	421
CAFSWO80I	421
CAFSWO100I	421
CAFSWO125I	421
CAFSWO150I	421
CAFSWO200I	421
CAV-IMP	419
CCWO50IF	420
CCWO65IF	420
CCWO80IF	420
CCWO100IF	420
CCWO125IF	420
CCWO150IF	420
CCWO200IF	420
CHUB01	436
CHUB02	437
CHUB03	438
CHUB04	433
CHUB-EXP	433
CLIP03	259
CLIP20	259
CLIP20AUT	259
CRTH	441
CRTV01	359
FAS-080L	258
FAS-150	258
FAST20-ORG	257
FAST30-ORG	257
FAST40-ORG	257
FIB-12	259
GIU-90	258
GRASIL50G	117
HD09	259
HD17	116
HK-PERT10R2	128
HK-PERT10R10	128
HMR15MFI	417
HMR15RFI-E	417
HMR20MFI	417
HMR20RFI-E	417
HMRI-K001-001	418
HS25FI	420
HS32FI	420
HS40FI	420
HS50FI	420
HS65FI	420
HS80FI	420
HS100FI	420
I-APERT16B4	125
I-APERT16CRB1	125
I-APERT16CRB5	125
I-APERT16CRR1	125
I-APERT16CRR5	125
I-APERT16R25	124
I-APERT16R50	124
I-APERT16R100	124
I-APERT16R200	124
I-APERT16R400	124
I-APERT16RCB5	124
I-APERT16RCF5	124
I-APERT16RCR5	124
I-APERT20B4	125
I-APERT20CRB5	125
I-APERT20CRR5	125
I-APERT20R100	124
I-APERT20RCB5	124
I-APERT20RCF5	124
I-APERT20RCR5	124
I-APERT25B4	125
I-APERT25CRB5	125
I-APERT25CRR5	125
I-APERT25R50	124
I-APERT25RCB5	124
I-APERT25RCR5	124
I-APERT26B4	125
I-APERT26CRB5	125
I-APERT26CRR5	125
I-APERT26R50	124
I-APERT26RCB5	124
I-APERT26RCF5	124
I-APERT26RCR5	124
I-APERT32B4	125
I-APERT32CRB2	125
I-APERT32CRR2	125
I-APERT32R50	124
I-APERT32RCB2	124
I-APERT32RCF2	124
I-APERT32RCR2	124
I-APERT40B5	125
I-APERT50B5	125
I-APERT63B5	125
I-APEX16B4	123
I-APEX16R100	122
I-APEX16R200	122
I-APEX16R400	122
I-APEX16RCB50	122
I-APEX16RCF50	122
I-APEX16RCR50	122
I-APEX20B4	123
I-APEX20R100	122
I-APEX20RCB50	122
I-APEX20RCF50	122
I-APEX20RCR50	122
I-APEX25R50	122
I-APEX25RCB25	122
I-APEX25RCB50	122
I-APEX25RCR25	122
I-APEX25RCR50	122
I-APEX26B4	123
I-APEX26R50	122
I-APEX26RCB50	122
I-APEX26RCF50	122
I-APEX26RCR50	122
I-APEX32B4	123
I-APEX32R50	122
I-APEX32RCB25	122
I-APEX32RCF25	122
I-APEX32RCR25	122
IKK01	394
IKK02	394
IKK03	394
IKLE01	361
IKLRD230A	393
IKLRQ24A	393
IKR415D	393
IM0001	116
I-PERT5L16R12	128
I-PERT5L16R25	128
I-PERT5L16R30	128
I-PERT5L16R60	128
I-PERT5L16RR2	128
I-PERT5L16RR6	128
I-PERT5L17R12	128
I-PERT5L17R25	128
I-PERT5L17R60	128
I-PERT5L17RR2	128
I-PERT5L17RR6	128
I-PERT5L20R25	128
I-PERT5L20R50	128
I-PEXA3L16R12	127
I-PEXA3L16R25	127
I-PEXA3L16R60	127
I-PEXA3L17R12	127
I-PEXA3L17R25	127
I-PEXA3L17R60	127
I-PEXA3L20R25	127
I-PEXA3L20R50	127
I-PEXA20RCB25	127
I-PEXA20RCR25	127
ISOL-17	258
ISOL-20	258
ISOL-25	258
ISOL-SOUND	258
IV100HT	325
IV100LT	325
IV400	325
IVAR-ESAT DUAL	382
IVAR-ESAT DUAL HC	382
IVAR-ESAT MONO B	382
IVAR-ESAT MONO C	382
IVAR-ESAT MONO H	382
IVAR-ESAT MONO L	382
IVAR PREFAB SYSTEMS	411
KSA0035B02	145
KSA0035B03	145
KSA0035B04	145
KSA0035B05	145
KSA0035B06	145
KSA0035B07	145
KSA0035B08	145
KSA0035B09	145
KSA0035B10	145
KSA0035B11	145
KSA0035B12	145
KSA0037B02	145
KSA0037B03	145
KSA0037B04	145
KSA0037B05	145
KSA0037B06	145
KSA0037B07	145
KSA0037B08	145
KSA0037B09	145
KSA0037B10	145
KSA0037B11	145
KSA0037B12	145
KSB0163	414
KSB0181	289
MINIGRAPH5	253
RE-50F2	259
REGCU-17	258
REGCU-20	258
REGCU-25	258
RWM5-000N	419
SAM-001	205
SAM-010	205
SAM-011	205
SAM-032	205
SAM-040	205
SAM-050	205
SAM-060	205
SAM-135	205
SAM-150	205
SAM-165	205
SAM-180	205
SAP-30M	392
SAP-30ME	392
SAP-30MR	392
SAP-30MRE	392
SAP-35	392
SAP-35E	392
SAP-35R	392
SAP-35RE	392
SAP-40M	392
SAP-40ME	392
SAP-40MR	392
SAP-40MRE	392
SAP-45	392
SAP-45E	392
SAP-45R	392
SAP-45RE	392
SAP-50M	392
SAP-50ME	392
SAP-50MR	392
SAP-50MRE	392
SAP-60	392
SAP-60E	392
SAP-60R	392
SAP-60RE	392
SAP-70M	392
SAP-70ME	392
SAP-70MR	392
SAP-70MRE	392
SAP-80	392
SAP-80E	392
SAP-80R	392
SAP-80RE	392
SAP-90M	392
SAP-90ME	392
SAP-90MR	392
SAP-90MRE	392
SAP-100	392
SAP-100E	392
SAP-100R	392
SAP-100RE	392
SAP-C-25ME	393
SAP-C-25MRE	393
SAP-C-30E	393
SAP-C-30RE	393
SAP-C-35ME	393
SAP-C-35MRE	393
SAP-C-40E	393
SAP-C-40RE	393
SCU-P-13SRP	419
SCU-P-20SRP	419
SFU-P-13SRP	419
SFU-P-20SRP	419
SOUND-09	258
TFEK10-1	108
THERM10	255
THERM20	255
THERM30	255
US15MFI-E	417
US15QRF	417
US20MFI-E	417
US20QRF	417
WFK30-D110	419
WFK30-D130	419
WFW30-D110	419
WFW30-D130	419
WILO3F	245
WILO3F-180	245
WILO4F	245
WILO4F-180	245
WILO4F-G1	245



GENERAL CONDITIONS OF SALE

1. Introduction

1.1. Sales contracts entered into by I.V.A.R. S.p.A. (hereinafter also referred to as the "seller") during the course of its business activities are regulated by these general contractual conditions, with the exception of waivers resulting from written agreements bearing the approval of the seller's sales and marketing department.

1.2. Any general conditions of the purchaser, and in particular conditions of purchase, shall not be applicable to the sales contracts entered into by the seller unless expressly agreed to in writing by the seller's sales and marketing department; in these cases, nevertheless, such conditions shall not preclude the effectiveness of these general contractual conditions unless a written waiver is provided.

1.3. Should one or more clauses or provisions of these general conditions of sale be rendered void or invalid, this shall not affect the validity of the remaining clauses.

1.4. These general conditions of sale shall be understood to have been read and accepted in their entirety by the purchaser upon sending of the purchase order.

2. Formation and Fulfilment of the Contract

2.1. Orders and/or commitments taken on by representatives or agents of the seller shall be in no way binding on the seller itself; as such, all orders handled by such representatives, agents etc. shall acquire validity and effectiveness only upon written confirmation from the seller's sales and marketing department.

2.2. Any modification to the order shall be valid and binding on the seller only upon written approval from the seller's sales and marketing department.

2.3. Performance of the contract may be suspended at any time in the event of changes to the purchaser's financial conditions pursuant to Article 1461 of the Italian Civil Code, without prejudice to any claim for damages. The seller shall retain the right to request appropriate payment guarantees, even during performance of the contract. Failure to provide the requested guarantees shall be cause for termination of the contract, pursuant to article 1456 of the Italian Civil Code.

3. Catalogues and Price Lists

3.1. Data, measurements, items, prices, specifications, performance and all other data listed in the seller's catalogues, price lists, tables, circulars etc. are provided purely by way of example; some may be subject to change without prior notice, and are binding on the seller only if expressly specified in the order acceptance/confirmation.

3.2. The seller's price lists do not represent an offer; they are provided purely by way of example, and may be unilaterally modified by the seller without prior notice.

3.3. Prices are generally, unless otherwise specified, "ex-works (EXW) seller premises", packaging included. Any taxes, duties and fees applicable upon delivery are therefore the responsibility of the purchaser. The prices do not include any services or fees which are not mentioned.

3.4. Insurance costs for the goods are the responsibility of the purchaser, as are any customs costs and expenses due to delays in customs clearance or other causes.

4. Payment Methods; Acceleration Clause; Unilateral Withdrawal; Default Interest; Acceptance of the Invoice; and Acknowledgement of Debt.

4.1. Unless a written waiver is provided, all payments must be made in Euros to the seller's premises. Bank drafts or other agreed payment methods do not, in any way, entail amendments or waivers to this rule.

4.2. The prices given in the seller's price list are net of VAT which, where applicable, shall be calculated at the rate in force at the date of invoice generation.

4.3. For each day of delay with respect to the agreed payment terms, default interest shall accrue pursuant to Italian Legislative Decree no. 231/2002.

4.4. In the event of delayed payment or payment of instalments against the invoice amount, failure to meet a payment deadline shall cause the acceleration clause to automatically apply, with the entire sum immediately coming due and default interest accruing pursuant to Italian Legislative Decree no. 231/2002.

4.5. In the event of the purchaser entering into bankruptcy or restructuring proceedings, or if they have been subject to enforcement proceedings or protests, the sums receivable from the purchaser shall be considered immediately due and the seller shall have the right, pursuant to Article 1373 of the Italian Civil Code, to immediately terminate the contract by sending a registered letter with return receipt or by sending a "certified email (P.E.C.)" where available.

4.6. In the event that a bill of exchange is agreed on, the purchaser shall be responsible both for the discount interest and the relative costs and commissions; interest shall be calculated at the statutory discount rate plus three (3) per cent. In the event of failure to pay or lack of acceptance of a bill of exchange, the sums payable will immediately become due regardless of the previously agreed conditions.

4.7. If a period of ten (10) days passes from receipt of the invoice without any written dispute by the purchaser – to be addressed to the seller's sales and marketing department – with regard to the invoice amount due, this shall imply acknowledgement by the customer of the debt incurred via the above-mentioned invoice pursuant to article 1988 of the Italian Civil Code.

5. Provision of Goods "Ex-Works (EXW) Supplier Premises" and Shipment of the Goods

The seller shall notify the purchaser by letter and/or telegram and/or telefax and/or email and/or "certified email (P.E.C.)" of the date the goods are to be made available at its premises. Should the purchaser not collect or arrange for collection of the goods within ten (10) days of the aforementioned notification, the seller shall proceed to ship the goods to the registered address of the purchaser as specified in the purchase order. In the event of delayed shipment not due to its own actions, the seller retains the right to charge the purchaser for any costs incurred for storage, maintenance, custody and insurance of the goods.

6. Delivery and Transfer of Risk

Delivery of goods is understood to be "Ex-Works (EXW) supplier premises". All supplier liability shall cease upon hand-over to the purchaser or carrier; the goods therefore travel at the risk and liability of the purchaser. In cases where, under special agreements with the purchaser, the material is delivered, for example, DDP or DAP, no disputes shall be accepted for any theft of, damage to or tampering with the goods. Any agreements with shipping agents, including the amount and payment of the transport price, shall always be understood to be made in the name of and on behalf of the purchaser who, as of now, accepts and agrees with the seller's operations.

7. Transport and Packaging; Liability for Losses and Faults

7.1. Costs for managing shipment of the material from the seller's premises to the destination are normally borne by the purchaser, unless otherwise agreed in the order confirmation. Transport costs shall, in any case, be paid by the purchaser. The purchaser assumes all risk deriving from transport through to delivery of the material to the carrier or haulier, even in the event of retention of title.

7.2. The seller shall provide for appropriate standard packaging. The seller shall nevertheless bear no liability for loss or damage not due to its own wilful misconduct or gross negligence and which is not a direct and immediate consequence of its conduct. For special types of packaging, the surcharges specified in the price list, where applicable, or in the order confirmation, will be applied to the invoice.

8. Legal Warranty

8.1. In the event of sale to a customer who is not a consumer (applying the definition of "Consumer" given in point 8.2.), only the provisions of the Italian Civil Code with regard to warranties against defects pursuant to Article 1490 et seq. of the Italian Civil Code shall apply.

8.2. In the event that the end user of the product sold by the seller can be classified as a consumer, the warranty against damage by defective products provided for under Italian Legislative Decree no. 206 of 6 September 2005, part IV, title III, chapter I, as amended, shall apply to consumers resident in Italy. Pursuant to article 2 of Directive (EU) no. 2019/771, "Consumer" means any natural person who, in relation to contracts covered by the aforementioned Directive, is acting for purposes which are outside that person's trade, business, craft or profession. Should the Consumer be resident in another EU Member State, they shall have the warranty rights provided for under any other national legislation applicable to the same covering consumer goods, enacted as implementing legislation of Directive (EU) 2019/771, as amended. Consumers resident or domiciled in third countries (outside the EU) will have warranty rights pursuant to any different binding local legislation applicable to sales of consumer goods.

8.3. The seller shall not be held liable for malfunctions or defects ascribable to nonconformities/incorrect installation, use or maintenance of the products purchased with respect to the requirements listed in the instruction booklet and/or any warning labels. The legal warranty shall not apply to any parts considered "consumable" and/or subject to normal wear and tear, and shall be void when the causes of the fault are ascribable to accidents, misuse, lack of care, inappropriate use or use outside the purpose for which the goods were supplied, and more generally any defect ascribable to the fault of or in any case activities performed by the customer on the product without the seller's written consent. The seller shall not be liable for disassembly, transport, reassembly, reinstallation or testing of products which fall under this warranty.

8.4. Return of products and repair/replacement: defective/faulty products must be returned to the seller. Products under warranty will be repaired, where possible. If repair is not (economically) possible, the seller shall replace the product with a new one of the same type. Costs for returning the repaired product and/or delivery of the product supplied in replacement of the faulty/defective one is always the responsibility of the customer, and goods are always their liability during transport.

9. Claims for Product Defects/Faults/Lack of Quality

9.1. Claims and/or complaints regarding product faults, defects or lack of quality, pursuant to the deadlines laid out by the regulations cited in article 8, shall be addressed solely to the seller's sales and marketing department by completing all parts of the dedicated "CLAIM REQUEST FORM", which can be downloaded from the following link **https://pim.ivar-group.com/short/Claim_request_form**.
For correct and rapid management of the claim, it is essential that detailed information on the claimed faults/defects and/or lack of quality be provided.

9.2. In the event that the products returned to the seller are not found to exhibit the faults/defects or lack of quality claimed by the customer, the latter shall pay the seller 10% of the value of the goods by way of reimbursement of the expenses deriving from management of the claim procedure.

9.3. Any claims and/or complaints with regard to faults/defects or lack of quality of the product shall not give the purchaser the right to delay or withhold any payments due.

10. Terms of Delivery and Return of Goods; Limitation of Liability

10.1. The delivery time agreed between the parties shall commence from the day after agreement is reached on every element of the contract and the seller has received all information required to fulfil the delivery. It shall nevertheless be understood that the delivery times specified in the seller's offers and/or in the order confirmations are purely provided as estimates and are not binding.

10.2. If an import licence is required by the purchaser's country, the delivery time shall run from when the seller receives written notification that the licence has been granted.

10.3. Delivery of the goods, even partial, may not be rejected by the purchaser; partial deliveries of goods do not give rise to the right by the purchaser to cancel the order.

10.4. No liability shall be borne by the seller, and nothing shall therefore be owed to the purchaser, in the event of delivery delays not due to the seller – for example in the event of delays caused by third parties, including suppliers and subcontracted suppliers, and force majeure events such as unrest, uprisings, strikes or lockouts, war, epidemics, closures, accidents or faults with machinery or tooling, fire, floods, landslides, earthquakes, heatwaves, climatic events and, more generally, any other event leading to total or partial inactivity of the seller's plants and production stoppages or slowdowns.

10.5. In any case, the purchaser may not make use of delivery delays to terminate the contract.

10.6. Notwithstanding the provisions of point 8 regarding warranties, the customer may not return delivered materials for any reason without the express written authorisation of the seller. In the event that return authorisation is received, the purchaser must return the material in accordance with the following provisions in order to have the right to reimbursement of the sums already paid:

- The material must not have been used by the purchaser and must be returned in the same condition in which the purchaser received it
- The material must be returned within two (2) weeks from the date of the purchase invoice
- The material must be returned to I.V.A.R. S.p.A. – by, at the expense of and at the risk of the purchaser – to its headquarters at Via IV Novembre 181, Prevalle (BS), Italy.

11. Termination and Suspension of the Supply

11.1. In the event of unexpected events, unforeseeable circumstances or force majeure (such as, solely by way of example, strikes or lockouts, lack of or reduced supplies of raw materials, transportation difficulties, war or insurrection, interruptions in communications however they are caused, faults with the seller's systems etc.), the seller shall have the right to withdraw from this agreement and/or to suspend the supply in progress when such unexpected events, however they may occur, substantially alter the state of the markets, currency values, the conditions of Italian industry, or else other circumstances, even local or internal, occur which, in the seller's sole unquestionable judgement, do not allow the useful continuance of the supply relationship.

11.2. In the event of non-payment, even partial, of invoices issued by the seller, even when relating to previous and completed supplies of products, the seller reserves the right to suspend the supply of products relating to the order confirmations currently being fulfilled.

11.3. In any case, in accordance with these general contractual conditions, withdrawal from the contract and or suspension of the supply of materials shall not give rise to any right of the purchaser to compensation, reimbursement or payment of damages.

12. Intellectual Property Rights – Use of the I.V.A.R. Brand

12.1. Any technical drawing or document relating to the seller's products, even if forwarded to the purchaser, remains the exclusive property of the seller and may not be used by the purchaser or copied, reproduced, transmitted or communicated to third parties without the prior written authorisation of the seller.

12.2. Any use of the I.V.A.R. brand by the purchaser must be authorised in advance by the seller in writing, otherwise damages shall be sought for undue use of the brand.

13. Applicable Legislation. Jurisdiction.

13.1 This contract, even if entered into with foreign purchasers and/or when the products are supplied to a foreign location, shall be regulated by Italian law. This contract excludes the application of the Hague Convention relating to the Uniform Law on the International Sale of Goods, the United Nations Convention on Contracts for the International Sale of Goods and all other international conventions relating to the sale of goods and/or the procurement of work and services.

13.2 Any dispute relating to this contract and its interpretation and/or performance shall be subject to the sole jurisdiction of Italian law, and more specifically to the court of Brescia, Italy.

14. Privacy

14.1. The purchaser hereby consents to the processing of their personal data, and confirms that they have received the privacy policy drafted in accordance with multiple legislative provisions, including Articles 13 and 14 of Regulation (EU) 2016/679, which can be consulted at the following link: **https://pim.ivar-group.com/short/Client_supplier_Privacy**.

14.2. The Controller for data processing purposes is the company I.V.A.R. S.p.A., with registered office at Via IV Novembre 181, Prevalle (BS), Italy.

14.3. The purchaser may exercise their rights at any time by contacting the Controller directly via email at notifiche.gdpr@ivar.it

14.4. Providing data is mandatory for the purposes of contract fulfilment and to comply with accounting and tax obligations; refusal to supply data will render fulfilment of the contract impossible due to the purchaser's fault.

14.5. Personal data may be transferred, in addition to parties linked to I.V.A.R. S.p.A. (e.g. employees, agents, brokers, branch/subsidiary offices etc.), to banks, insurance companies and, more generally, to the company's consultants/professionals.

15. Communications

With the exception of anything otherwise provided for in the other general conditions of sale, all communications between the parties must be made in writing and sent to the destination address specified in the contract, or to the recipient's registered office via registered letter with return receipt, telefax, email, "certified email (P.E.C.)" or hand-delivered letter.



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HYDRONIC IDEAS

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