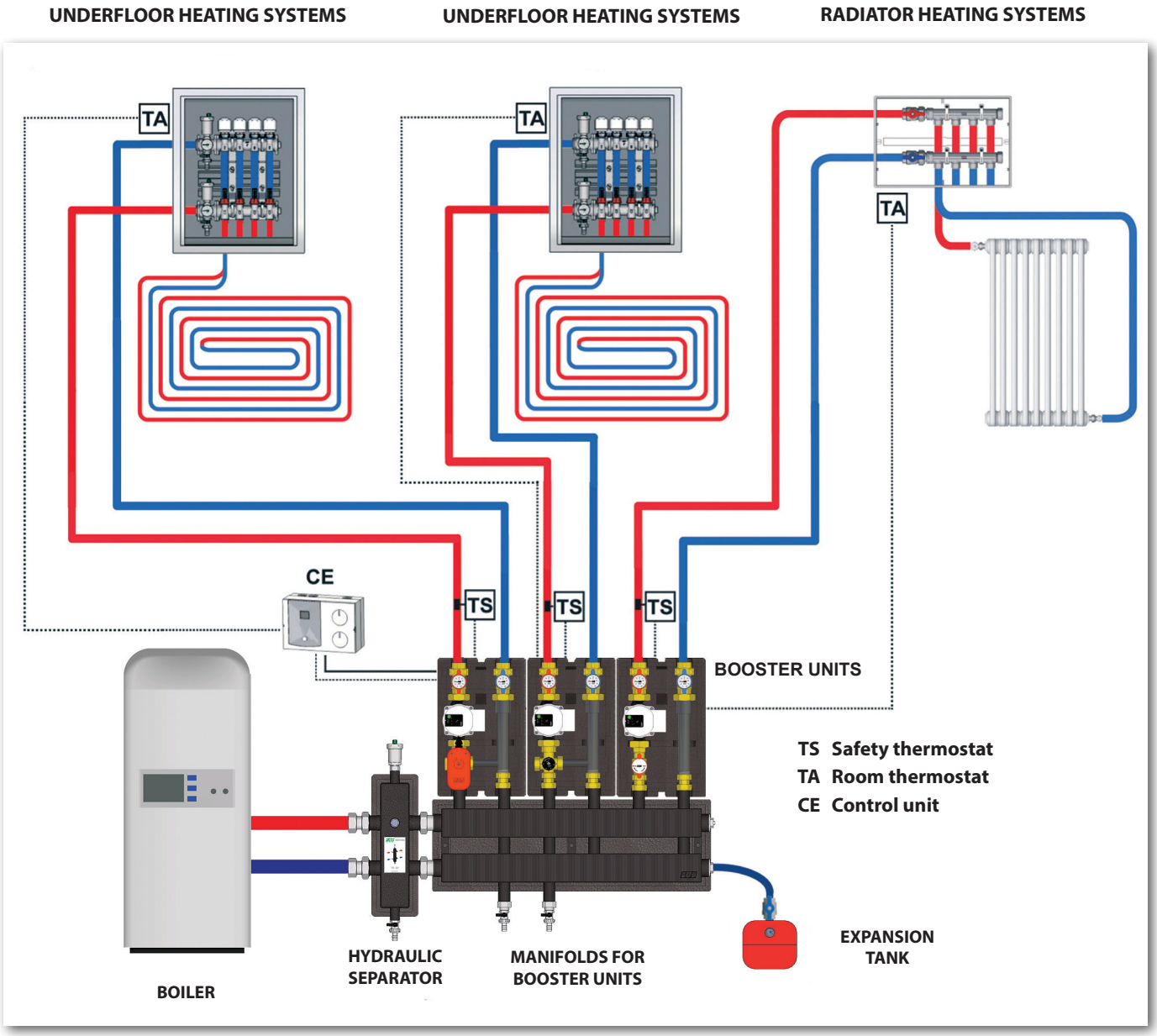
Components for central heating 01

Booster units and spare parts	19
Hydraulic separator and spare parts	25
Dirt separators	27
POCKETFAR - Dirt separator filter	35
Deaerators	37
COMBIFAR - Dirt separators - Deaerators	40
Acid condensate neutralizer for condensing boilers	42
POLYFAR - Proportional polyphosphate dosing filter	43
SKUDOFAR - Products for the protection of the system	44
Filling units - Thermostatic mixers	46
By-Pass differential valve - Air separator units	48
Pressure gauges and Temperature gauges	49
Assembled manifolds for the control and the safety of the central heating	50
Thermostats - Flow switches and Pressure switches	51
Actuators for mixing valve	52
Air vent valves	55
Safety valves	57
Balancing valves and spare parts	60
Pressure reducing valves	64
Strainers for domestic services	70
Connection units for domestic services with recirculation	79
Water hammer arrester	80
Temperature gauge holder ball valves	81
Shut-off valves	85

FAR booster units are components designed for installation in central heating plant serving a variety of systems.



Every booster unit is provided with shut-off valves complete with temperature gauge and seats, pump, an extension piece with non-return valve and insulation.

Units are available in the following versions:

• **Booster unit complete with modulating mixing valve**	**Art. 2168 - Art. 2176 - Art. 2186 - Art. 2188 - Art. 2189**
• **Direct booster unit**	**Art. 2166 - Art. 2171 - Art. 2187**
• **Booster unit with set point thermostatic mixer**	**Art. 2167 - Art. 2174**

When using the modulating mixing valve it is necessary to include the control unit:

• **Temperature control (Hot)**	**Art. 9611 - Complete with control unit, delivery probe and external probe.**
• **Temperature control (Hot/Cold)**	**Art. 9614 - Complete with control unit, delivery probe and external probe.**

To complete the installation we recommend inclusion of a safety thermostat, Art. 7951, on the supply pipe - using one or more thermostat, Art. 7946.

Direct booster unit complete with:
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST

ART. 2166

Code	size	pump	pump centre distance	€	box	pack
2166 1130EA	1"	electronic 1-7 m	130 mm		1	1
2166 1180E6	1"	electronic 1-6 m	180 mm		1	1
2166 1180EA	1"	electronic 1-8 m	180 mm		1	1
2166 114180E7	1"1/4	electronic 1-8 m	180 mm		1	1
2166 114180E11	1"1/4	electronic 1-10 m	180 mm		1	1

Set point booster unit complete with:
- set point thermostatic mixer with 18 ÷ 55°C scale
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST

ART. 2167

Code	size	pump	pump centre distance	€	box	pack
2167 1130EA	1"	electronic 1-7 m	130 mm		1	1
2167 1180E6	1"	electronic 1-6 m	180 mm		1	1
2167 1180EA	1"	electronic 1-8 m	180 mm		1	1

Booster unit complete with:
- reversible mixing valve
- 3-point actuator 230V 50Hz
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST

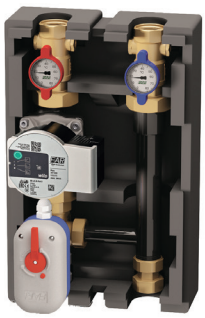
ART. 2168

Code	size	pump	pump centre distance	€	box	pack
2168 1130EA	1"	electronic 1-7 m	130 mm		1	1
2168 1180E6	1"	electronic 1-6 m	180 mm		1	1
2168 1180EA	1"	electronic 1-8 m	180 mm		1	1
2168 114180E7	1"1/4	electronic 1-8 m	180 mm		1	1
2168 114180E11	1"1/4	electronic 1-10 m	180 mm		1	1

Booster unit complete with:
- reversible mixing valve with **0-10V actuator**
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST



0-10V

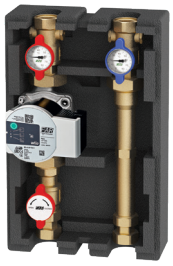
ART. 2186

Code	size	pump	pump centre distance	€	box	pack
2186 1130EA	1"	electronic 1-7 m	130 mm		1	1
2186 1180E6	1"	electronic 1-6 m	180 mm		1	1
2186 1180EA	1"	electronic 1-8 m	180 mm		1	1
2186 114180E7	1"1/4	electronic 1-8 m	180 mm		1	1
2186 114180E11	1"1/4	electronic 1-10 m	180 mm		1	1

Direct booster unit complete with:
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST



ART. 2171

Code	size	pump	pump centre distance	€	box	pack
2171 1130EA	1"	electronic 1-7 m	130 mm		1	1
2171 1180E6	1"	electronic 1-6 m	180 mm		1	1
2171 1180EA	1"	electronic 1-8 m	180 mm		1	1

Booster unit complete with:
- reversible mixing valve
- 3-point actuator 230V 50Hz
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST

ART. 2176

Code	size	pump	pump centre distance	€	box	pack
2176 1130EA	1"	electronic 1-7 m	130 mm		1	1
2176 1180E6	1"	electronic 1-6 m	180 mm		1	1
2176 1180EA	1"	electronic 1-8 m	180 mm		1	1

Set point booster unit complete with:
- set point thermostatic mixer with 18 ÷ 55°C scale
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST

ART. 2174

Code	size	pump	pump centre distance	€	box	pack
2174 1130EA	1"	electronic 1-7 m	130 mm		1	1
2174 1180E6	1"	electronic 1-6 m	180 mm		1	1
2174 1180EA	1"	electronic 1-8 m	180 mm		1	1

Delivery unit complete with:
- high efficiency pump
- temperature gauge holder ball shut-off valves
- connection fitting
- gasket in EPDM
- fittings material: CW617N brass

new

ART. 218A

Code	size	pump	pump centre distance	€	box	pack
218A 1130EA	1"	electronic 1-7 m	130 mm		1	1

Direct booster unit for cooling and heating systems complete with:
- high efficiency pump
- shut-off valves
- No. 2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST

ART. 2187

Code	size	pump	pump centre distance	€	box	pack
2187 1130EA	1"	electronic 1-7 m	130 mm		1	1
2187 1180E6	1"	electronic 1-6 m	180 mm		1	1
2187 1180EA	1"	electronic 1-8 m	180 mm		1	1
2187 114180E7	1"1/4	electronic 1-8 m	180 mm		1	1
2187 114180E11	1"1/4	electronic 1-10 m	180 mm		1	1

Booster unit for cooling and heating systems complete with:
- reversible mixing valve
- 3-point actuator 230V 50Hz
- high efficiency pump
- shut-off valves
- No. 2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST

ART. 2188

Code	size	pump	pump centre distance	€	box	pack
2188 1130EA	1"	electronic 1-7 m	130 mm		1	1
2188 1180E6	1"	electronic 1-6 m	180 mm		1	1
2188 1180EA	1"	electronic 1-8 m	180 mm		1	1
2188 114180E7	1"1/4	electronic 1-8 m	180 mm		1	1
2188 114180E11	1"1/4	electronic 1-10 m	180 mm		1	1

Booster unit for cooling and heating systems complete with:
- Reversible mixing valve with **0-10V actuator**
- high efficiency pump
- shut-off valves
- No. 2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

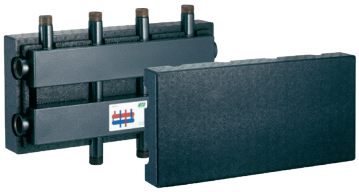
• Connections centre distance: 125 mm

AVAILABLE WITH DELIVERY ON THE RIGHT UPON REQUEST

ART. 2189

Code	size	pump	pump centre distance	€	box	pack
2189 1130EA	1"	electronic 1-7 m	130 mm		1	1
2189 1180E6	1"	electronic 1-6 m	180 mm		1	1
2189 1180EA	1"	electronic 1-8 m	180 mm		1	1
2189 114180E7	1"1/4	electronic 1-8 m	180 mm		1	1
2189 114180E11	1"1/4	electronic 1-10 m	180 mm		1	1

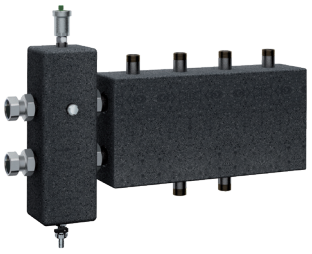
Manifolds for central heating.
- External painted surface
- Centre distance between ports: 125 mm
- Side connections: 1"1/4 - 2" female
- Outlets: 1" - 1"1/4 male
- Pmax = 8bar
- Tmax = 95°C
- Supplied with PPE insulation



ART. 2191

Code	size	connections	ports	€	box	pack
2191 11402	1"1/4	1"	2+1		1	1
2191 11403	1"1/4	1"	3+1		1	1
2191 202	2"	1"1/4	2+1		1	1
2191 203	2"	1"1/4	3+1		1	1
2191 204	2"	1"1/4	4+1		1	1

Distribution unit for central heating.
- External painted surface
- Centre distance between ports: 125 mm
- Side connections: 1"1/4 female
- Outlets: 1" male
- Pmax = 8bar
- Tmax = 95°C
- Supplied with PPE insulation



ART. 2192

Code	size	ports	€	box	pack
2192 11402	1"1/4	2+1		1	1
2192 11403	1"1/4	3+1		1	1

Connection kit between:
- manifold (art. 2191 2) and hydraulic separator art. (2161 2)
- Side connections: 2" male

ART. 2193

Code	size	€	box	pack
2193 2	2"		1	1

Chrome-plated straight 3-piece connection to join 1"1/4 manifolds for central heating.
- male-male connections

ART. 5153

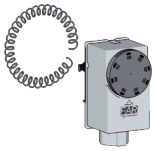
Code	size	€	box	pack
5153 114	1"1/4		10	80

Electronic controller for heating systems.
- Climatic or set point operation
- Easy interface
- Pump control
- Room thermostat inlet
- System control and safety functions
- Complete with supply and external probe

ART. 9611

Code	€	box
9611		1

Thermostat with contact probe.
- Control temperature range: 20/90°C
- Protection level: IP40



ART. 7951

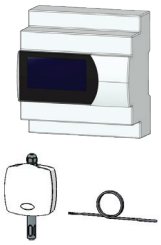
Code	€	box
7951		1

Weekly electronic chrono-thermostat with digital display.
- Battery power (no. 2 AA 1,5V batteries - not supplied)
- Operating mode: Auto, Comfort, Economy and OFF/Frost protection
- Program range: 30 minutes
- Summer/Winter switch
- Wall mounting

ART. 7946

Code	€	box
7946		1

Single-zone electronic controller **for heating and cooling systems,** complete with:
- Delivery probe and 3/8" seat
- External probe
- Feed voltage: 24V
- Installation: DIN rail



ART. 9614

Code	€	box
9614		1

Temperature and humidity probe for art. 9614.

ART. 9605

Code	€	box
9605		1

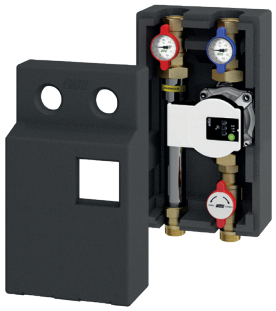
Couple of brackets for booster unit.

ART. 7478

Code	€	box
7478		1

Direct booster unit complete with:
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

Connections centre distance: 90mm

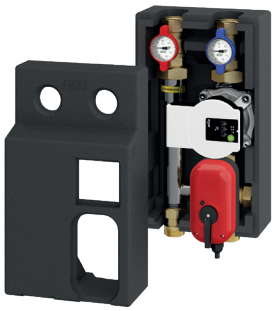


ART. 216A

Code	size	pump	pump centre distance	€	box	pack
216A 1130EA	1"	electronic 1-7 m	130 mm		1	1

Booster unit complete with:
- reversible mixing valve
- 3-point actuator 230V 50Hz
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

• Connections centre distance: 90mm

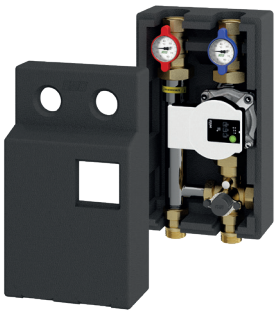


ART. 216C

Code	size	pump	pump centre distance	€	box	pack
216C 1130EA	1"	electronic 1-7 m	130 mm		1	1

Booster unit complete with:
- manual motorized reversible mixing valve
- high efficiency pump
- shut-off valves
- No.2 temperature gauges with 0 ÷ 80°C scale
- PPE insulation

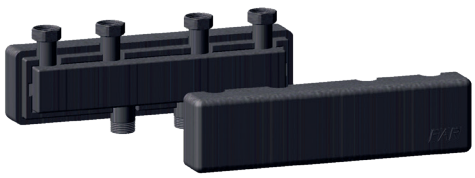
• Connections centre distance: 90mm



ART. 216D

Code	size	pump	pump centre distance	€	box	pack
216D 1130EA	1"	electronic 1-7 m	130 mm		1	1

Manifolds for central heating.
- External painted surface
- Centre distance between ports: 90mm
- Side connections: 1" male
- Outlets: 1" female with swiveling nut and gasket in EPDM
- Pmax = 8bar
- Tmax = 95°C
- Supplied with PPE insulation



ART. 2194

Code	size	outlets	vie	€	box	pack
2194 10290	1"	1"	2+1		1	1

Description

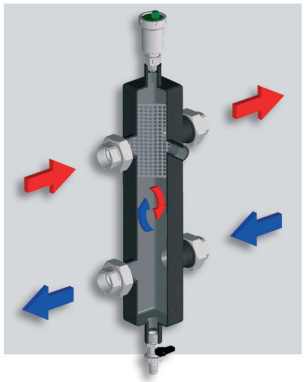
The FAR Hydraulic Separator is designed for installation in heating and cooling systems. It is equipped with a main primary pump and 2 or more secondary pumps.
Its function is to separate the primary circuit (coming from the boiler or chiller) from the secondary circuit, which distributes the hot or chilled water.
It is available in the following sizes: 1", 1"1/4, 1"1/2 and 2" with threaded connections and in DN50, DN65, DN80, DN100, DN125 and DN150 with flanged connections.

More functions from a single unit

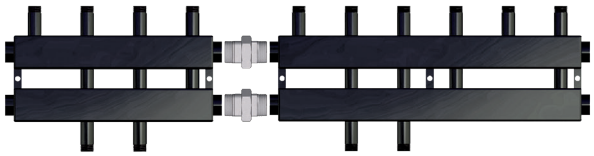
The FAR separator offers a variety of functions. It is equipped with a mesh type strainer, any impurities can thus be removed from the system by opening a drain cock located in the lower section of the separator, while an air vent valve in the top section makes it easy to purge air. The inner mesh, besides capturing any impurities in the water passing through the separator, also causes any air bubbles to slow down and rise to the top where they can be vented out of the system. To simplify routine maintenance or component replacement, the air vent valve incorporates a non-return valve.
The separator is equipped with a 1/2" connection at the front, which permits installation of a temperature gauge. Pre-formed insulation can be used to thermally isolate the separator.

Benefits

The separator combines a range of functions and benefits; its installation protects against any kind of interference to either primary and secondary circuit pumps. It can also operate as a by-pass valve in the event of flow failure caused by lack of demand from diverted circuits.
In certain circumstances pumps may have to operate beyond their working range and the separator protects them against burn out, ensuring proper functioning of each and every circuit.

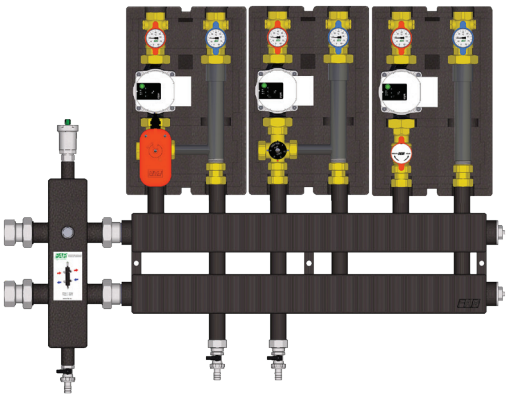


The illustration shows the separator mesh section.
Depending on flow demand from the secondary circuit, the circulation flows will change inside the separator. This means that, if there's no flow demand from the secondary circuit, flow will automatically be redirected back to the boiler.



To join more manifolds use fitting art. 5153 114.
We suggest to join no more than 2 manifolds to get a manifold for 5+2 units.

Here you can see an example of hydraulic separator application.
Three booster units are located on the secondary circuit: this kind of system requires a separator in order to avoid interference to the pumps.



TECHNICAL FEATURES

	Threaded connections	Flanged connections
Body:	painted steel	painted steel
Main connections:	female unions	flanged
Drain cock connection:	1/2"	1"
Air vent valve connection:	1/2"	1/2"
Front connection:	1/2"	1/2"
Max. pressure:	8 bar	10 bar
Max. temperature:	110°C	100°C
Max. temperature with insulation:	100°C	100°C
Compatible fluids:	water with and without glycol	water with and without glycol
Sizes:	1"-1"1/4-1"1/2-2"	DN50-DN65-DN80-DN100-DN125-DN150

MAX. RECOMMENDED FLOWS

Size	Flow - m^3/h
1"	2,1
1"1/4	3,5
1"1/2	5,4
2"	8,5

DN50	10
DN65	18
DN80	30
DN100	55
DN125	85
DN150	125

Hydraulic separator complete with automatic air vent valve with non-return valve and drain cock.

- 1/2" frontal connection for installation of temperature or pressure gauge
- Painted steel body
- Installation: vertical
- Pmax=8bar
- Tmax=110°C

ART. 2159

Code	size	connections	€	box	pack
2159 1	1"	1"1/2		1	1
2159 114	1"1/4	2"		1	1
2159 112	1"1/2	2"1/4		1	1
2159 2	2"	2"1/4		1	1

Hydraulic separator complete with female unions, automatic air vent valve with non-return valve and drain cock.

- 1/2" frontal connection for installation of temperature or pressure gauge
- Painted steel body
- Installation: vertical
- Pmax=8bar
- Tmax=110°C

ART. 2160

Code	size	€	box	pack
2160 1	1"		1	1
2160 114	1"1/4		1	1
2160 112	1"1/2		1	1
2160 2	2"		1	1

Hydraulic separator complete with female unions, automatic air vent valve with non-return valve and drain cock.

- 1/2" frontal connection for installation of temperature or pressure gauge
- Painted steel body
- Installation: vertical
- Pmax=8bar
- Tmax=100°C
- Supplied with PPE pre-formed anti-condensation insulation

ART. 2161

Code	size	€	box	pack
2161 1	1"		1	1
2161 114	1"1/4		1	1
2161 112	1"1/2		1	1
2161 2	2"		1	1

Hydraulic separator complete with flanged connections, automatic air vent valve with shut-off valve and drain cock.

- 1/2" frontal connection for installation of temperature or pressure gauge
- Pipe flanged connections according to UNI EN 1092-1
- Painted steel body
- Installation: vertical
- Pmax=10bar
- Tmax=100°C
- Supplied with anti-condensation insulation made of thermo-formed expanded polyethylene

*** Available upon request**

ART. 2164

Code	size	€	box	pack	
2164 50	DN50		1	1	
2164 65	DN65		1	1	
2164 80	DN80		1	1	
2164 100	DN100		1	1	
2164 125	DN125		1	1	*
2164 150	DN150		1	1	*

PPE pre-formed anti-condensation insulation for hydraulic separator.

ART. 2165

Code	size	€	box	pack
2165 1	1"		1	1
2165 114	1"1/4		1	1
2165 112	1"1/2		1	1
2165 2	2"		1	1

Galvanized bracket for hydraulic separator.

ART. 2162

Code	size	€	box	pack
2162 1	1"		1	-
2162 114	1"1/4		1	-
2162 112	1"1/2		1	-
2162 2	2"		1	-

Chrome-plated connection kit for hydraulic separator complete with nut and gasket.

- connection: 1" - 1"1/4 - 1"1/2 - 2" female

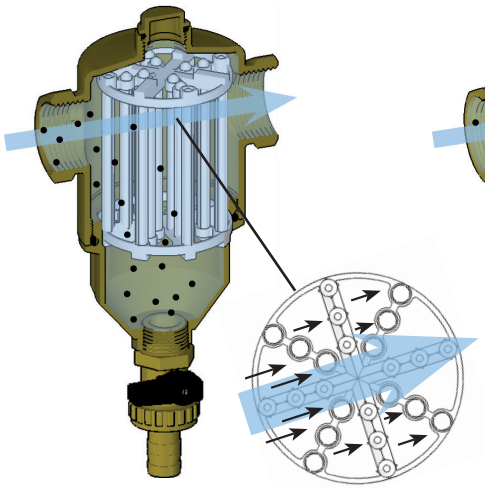
ART. 8346

Code	size	€	box	pack
8346 1	1"x 1"1/2		10	-
8346 114	1"1/4 x 2"		10	-
8346 112	1"1/2 x 2"1/4		5	-
8346 2	2"x 2"1/4		5	-

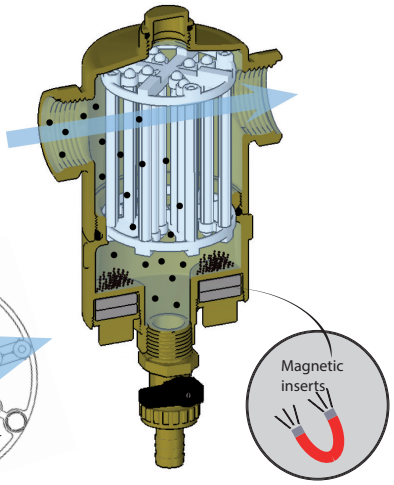
DIRT SEPARATORS

The FAR dirt separator is installed in cooling and heating systems to filter out any impurities in the water supply. Any impurities (such as rust or welding debris) drop down into an appropriate seating where, once settled, they can no longer return to the system.

WITHOUT MAGNETIC INSERTS

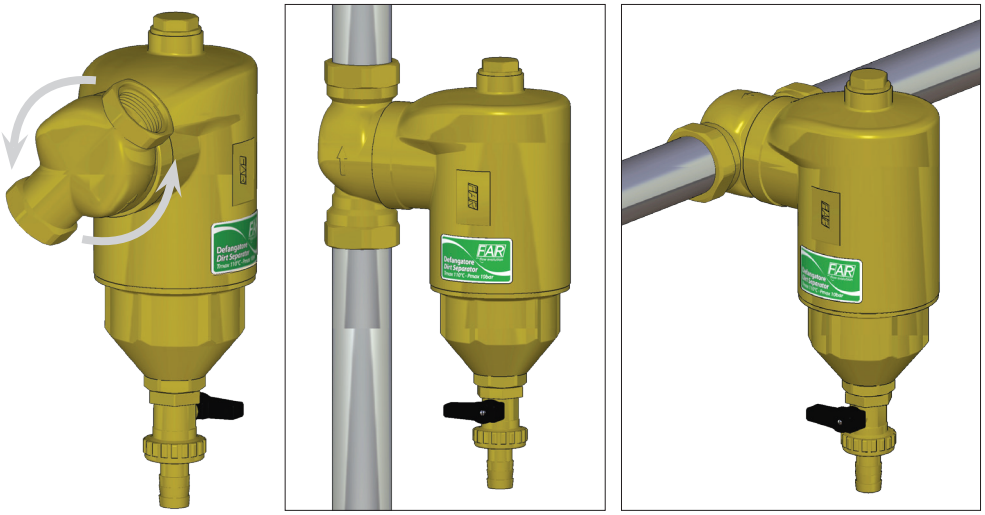


WITH MAGNETIC INSERTS

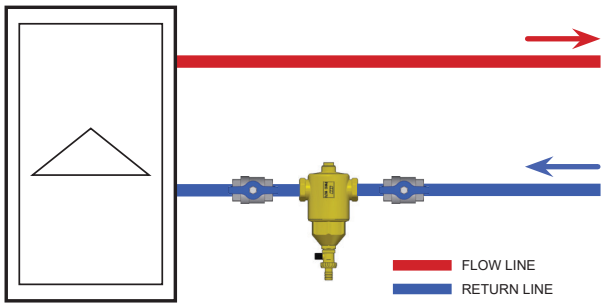


As illustrated, the use of vertical bars aligned to the direction of the fluid maximizes the surface area for contact with particles of dirt suspended in the fluid, while wings create turbolence to slow the flow rate and facilitate separation of impurities. The dirt separator with magnetic inserts allows the separator to catch iron particles in older systems or in systems with high dirt concentration.

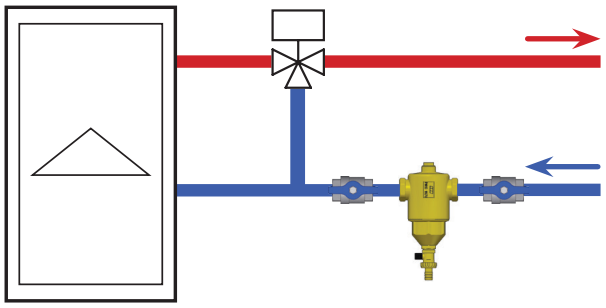
The swiveling dirt separator can be installed on the pipeline in either vertical or horizontal position, as the part with threaded connections can rotate 360° arounds its own axis.



CORRECT INSTALLATION IN TRADITIONAL SYSTEMS



CORRECT INSTALLATION IN SYSTEMS WITH MIXING VALVES



Dirt separator for heating systems.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Connection to 1/2" upper part with plug
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

COMPLETE WITH INSULATION

ART. 2200

Code	size	Kv [m³/h]	€	box	pack
2200 34	3/4"	13,2		1	6
2200 1	1"	17,9		1	6
2200 114	1"1/4	32,4		1	6
2200 112	1"1/2	40,6		1	6
2200 2	2"	73,1		1	6

ART. 2201

Code	size	Kv [m³/h]	€	box	pack
2201 34	3/4"	13,2		1	6
2201 1	1"	17,9		1	6
2201 114	1"1/4	32,4		1	6
2201 112	1"1/2	40,6		1	6
2201 2	2"	73,1		1	6

Dirt separator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Connection to 1/2" upper part with plug
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Removable magnetic inserts**
- **Patented**

See pages 44-45

SKUDOFAR line

COMPLETE WITH INSULATION

ART. 2205

Code	size	Kv [m³/h]	€	box	pack
2205 34	3/4"	13,2		1	6
2205 1	1"	17,9		1	6
2205 114	1"1/4	32,4		1	6
2205 112	1"1/2	40,6		1	6
2205 2	2"	73,1		1	6

ART. 2206

Code	size	Kv [m³/h]	€	box	pack
2206 34	3/4"	13,2		1	6
2206 1	1"	17,9		1	6
2206 114	1"1/4	32,4		1	6
2206 112	1"1/2	40,6		1	6
2206 2	2"	73,1		1	6

Swiveling dirt separator for heating systems.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Connection to 1/2" upper part with plug
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

COMPLETE WITH INSULATION

ART. 2207

Code	size	Kv [m³/h]	€	box	pack	
2207 34	3/4"	10,2		1	6	
2207 1	1"	11,2		1	6	
2207 114	1"1/4	13,9		1	6	
2207 112	1"1/2	24,3		1	-	new
2207 2	2"	25		1	-	new

ART. 2208

Code	size	Kv [m³/h]	€	box	pack	
2208 34	3/4"	10,2		1	6	
2208 1	1"	11,2		1	6	
2208 114	1"1/4	13,9		1	6	
2208 112	1"1/2	24,3		1	-	new
2208 2	2"	25		1	-	new

Swiveling dirt separator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Connection to 1/2" upper part with plug
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Removable magnetic inserts**
- **Patented**

COMPLETE WITH INSULATION

ART. 2212

Code	size	Kv [m³/h]	€	box	pack	
2212 34	3/4"	10,2		1	6	
2212 1	1"	11,2		1	6	
2212 114	1"1/4	13,9		1	6	
2212 112	1"1/2	24,3		1	-	new
2212 2	2"	25		1	-	new

ART. 2213

Code	size	Kv [m³/h]	€	box	pack	
2213 34	3/4"	10,2		1	6	
2213 1	1"	11,2		1	6	
2213 114	1"1/4	13,9		1	6	
2213 112	1"1/2	24,3		1	-	new
2213 2	2"	25		1	-	new

Dirt separator for heating systems with flanged connections.

- Painted steel body
- Flanged connections: UNI EN 1092-1
- 1/2" upper connection with plug
- 1"F drain valve for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature:100°C
- Supplied with PE pre-formed anti-condensation insulation

*** Available upon request**

ART. 2236

Code	size	€	box	pack	
2236 50	DN50		1	1	
2236 65	DN65		1	1	
2236 80	DN80		1	1	
2236 100	DN100		1	1	
2236 125	DN125		1	1	*
2236 150	DN150		1	1	*

Dirt separator for heating systems with flanged connections.

- Painted steel body
- Flanged connections: UNI EN 1092-1
- 1/2" upper connection with plug
- 1"F drain valve for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature:100°C
- **Removable magnetic inserts**
- Supplied with PE pre-formed anti-condensation insulation shell

*** Available upon request**

ART. 2241

Code	size	€	box	pack	
2241 50	DN50		1	1	
2241 65	DN65		1	1	
2241 80	DN80		1	1	
2241 100	DN100		1	1	
2241 125	DN125		1	1	*
2241 150	DN150		1	1	*

SMART - Chrome-plated swiveling dirt separator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Connection to 1/2" upper part with plug
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Removable magnetic inserts**
- **Patented**

COMPLETE WITH INSULATION

Smart

ART. 2272

Code	size	Kv [m³/h]	€	box	pack
2272 34	3/4"	6,8		1	15
2272 1	1"	7,5		1	15

Smart

ART. 2282

new

Code	size	Kv [m³/h]	€	box	pack
2282 34	3/4"	6,8		1	6
2282 1	1"	7,5		1	6

SMART - Chrome-plated swiveling dirt separator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Connection to 1/2" upper part with plug
- **3/4" shut-off ball valves**
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Removable magnetic inserts**
- **Patented**

See pages 44-45

SKUDOFAR line

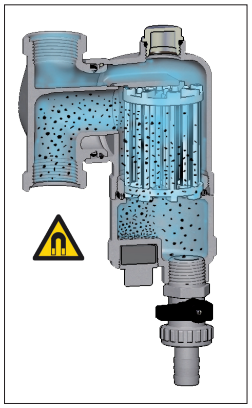
Smart

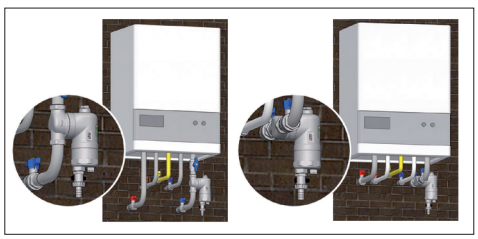
ART. 2271

Code	size	Kv [m³/h]	€	box	pack
2271 34	3/4"	6,8		1	15

SMART DIRT SEPARATOR

The SMART dirt separator, installed in cooling and heating systems, is designed to filter out any impurities in the water supply, thus improving heat exchange and ensuring good thermal fluid circulation.
The dirt separator features a special compact shape that makes it smaller than most dirt separators on the market, facilitating installation under boilers in domestic systems.
The magnet inserted in the lower section of the dirt separator makes it ideal for systems with a high concentration of ferrous particles, deposits or debris caused by corrosion.





The dirt separator should be placed on the return line before the boiler, in such a way as to catch all the impurities that might damage the boiler and pumps. It is recommended that the dirt separator is installed between two isolating valves for maintenance.

The SMART swiveling dirt separator can be installed on the pipeline in either vertical or horizontal position, as the part with threaded connections can rotate through 360° around its own axis.

COMPACTFAR – Ultra compact dirt separator **with angled connections** for heating systems complete with magnetic insert for ferrous particles removal.

- Body made of CB753S brass
- Finishing: CHROME-PLATED
- Pipe connections: F-F
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110° C
- **Connections: ¾" F-F**
- **Removable cartridge**
- **Removable magnetic insert**
- **Patented**
- **Registered Community Design**

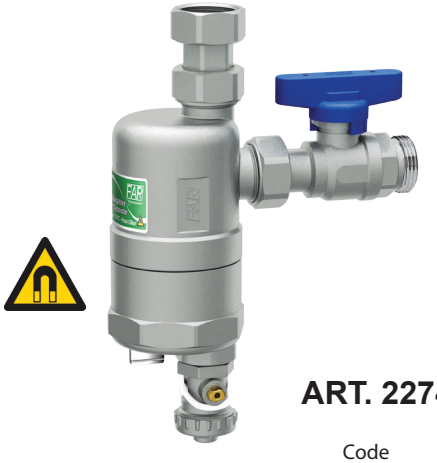
ART. 2273 compactFAR

Code	size	Kv [m³/h]	€	box	pack
2273 34	3/4"	6,35		1	24

COMPACTFAR – Ultra compact dirt separator **with angled connections** for heating systems complete with magnetic insert for ferrous particles removal.

- Body made of CB753S brass
- Finishing: CHROME-PLATED
- Pipe connections: M-F
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110° C
- **Connection: ¾" F-F**
- **¾" Shut-off ball valve**
- **Removable cartridge**
- **Removable magnetic insert**
- **Patented**
- **Registered Community Design**

See pages 44-45
SKUDOFAR line

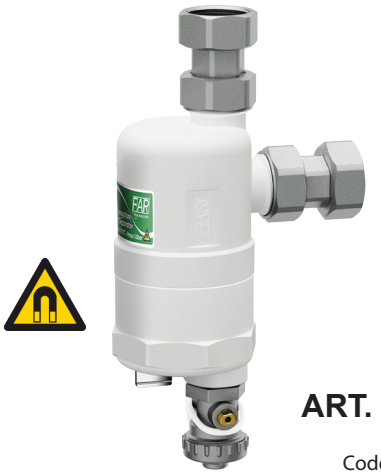


ART. 2274 compactFAR

Code	size	Kv [m³/h]	€	box	pack
2274 34	3/4"	6,35		1	24

COMPACTFAR – Ultra compact dirt separator **with angled connections** for heating systems complete with magnetic insert for ferrous particles removal.

- Body made of CB753S brass
- Finishing: WHITE/CHROME-PLATED
- Pipe connections: F-F
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110° C
- **Connections: ¾" F-F**
- **Removable cartridge**
- **Removable magnetic insert**
- **Patented**
- **Registered Community Design**



ART. 2275 compactFAR

Code	size	Kv [m³/h]	€	box	pack
2275 34	3/4"	6,35		1	24

1 COMPACTFAR - ULTRA COMPACT DIRT SEPARATORS

COMPACTFAR - Ultra compact dirt separator **with straight connections** for heating systems, complete with magnetic insert for ferrous particles removal.

- Body made of CB753S brass
- Finishing: CHROME-PLATED
- Pipe connections: 3/4" M-M with plastic insert for flat face / Eurokonus
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110° C
- **Nr. 2 sealing compression kit for copper pipe Ø 18 mm for 3/4" Eurokonus connection**
- **Ø 18 mm connection kit**
  - copper pipe 100 mm long
  - 3/4" nut
  - EPDM washer for flat face
- **Removable cartridge**
- **Removable magnetic insert**
- **Patented**

ART. 2278 compactFAR

Code	size	Kv [m³/h]	€	box	pack
2278 34	3/4"	5,86		1	24

COMPACTFAR - Ultra compact dirt separator **with straight connections** for heating systems, complete with magnetic insert for ferrous particles removal.

- Body made of CB753S brass
- Finishing: CHROME-PLATED
- Pipe connections: 3/4" M-M with plastic insert for flat face / Eurokonus
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110° C
- **Nr. 2 sealing compression kit for copper pipe Ø 18 mm for 3/4" Eurokonus connection**
- **Ø 18 mm connection kit**
  - copper pipe 100 mm long
  - 3/4" nut
  - EPDM washer for flat face
- **3/4" Shut-off ball valve**
- **Removable cartridge**
- **Removable magnetic insert**
- **Patented**

ART. 2277 compactFAR

Code	size	Kv [m³/h]	€	box	pack
2277 34	3/4"	5,86		1	24

COMPACTFAR - Ultra compact dirt separator **with straight connections** for heating systems, complete with magnetic insert for ferrous particles removal.

- Body made of CB753S brass
- Finishing: WHITE-CHROME
- Pipe connections: 3/4" M-M with plastic insert for flat face / Eurokonus
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110° C
- **Nr. 2 sealing compression kit for copper pipe Ø 18 mm for 3/4" Eurokonus connection**
- **Ø 18 mm connection kit**
  - copper pipe 100 mm long
  - 3/4" nut
  - Flat faced gasket in EPDM
- **Removable cartridge**
- **Removable magnetic insert**
- **Patented**

ART. 2279 compactFAR

Code	size	Kv [m³/h]	€	box	pack
2279 34	3/4"	5,86		1	24

OPERATION AND INSTALLATION EXAMPLES

The COMPACTFAR dirt separator is designed to filter the water in heating systems to remove impurities which could cause damage or boiler malfunction.

TECHNICAL FEATURES	
Body: CB753S brass	Nominal pressure: 10 bar
Drain cock: CW617N brass	Cartridge: PA6
Max. working temperature: 110°C	O-ring: EPDM
	Max. fluid speed: 1.4 m/s

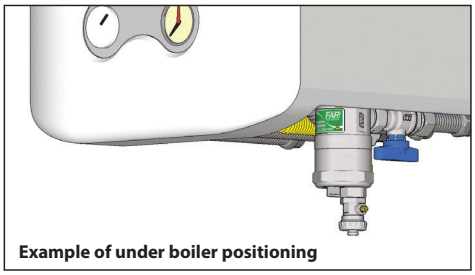
WARNING: due to the use of magnetic components, we advise pacemaker wearers to distance themselves during working and maintenance. Please also avoid use of electronic equipment near the magnets in order to avoid any malfunctioning.

INSTALLATION

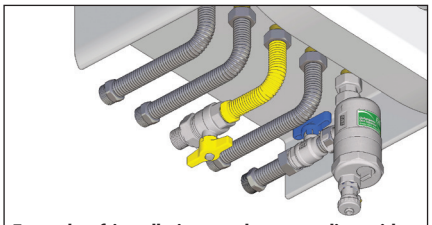
The dirt separator should be placed on the return line before the boiler, in order to catch all the impurities that might damage the boiler and the pumps.

⚠ Warning! The dirt separator must always be installed in a vertical position for correct operation

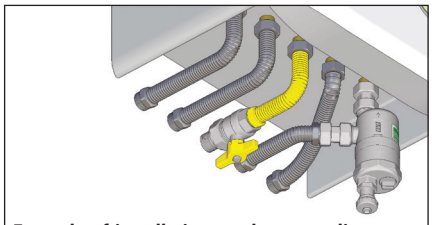
COMPACTFAR with angled connection



Example of under boiler positioning

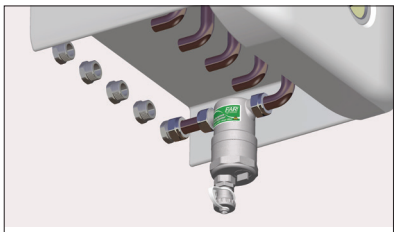


Example of installation on the return line with a shut-off ball valve.

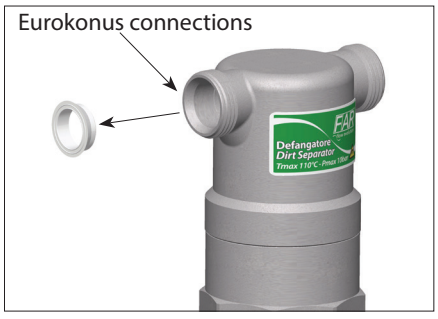


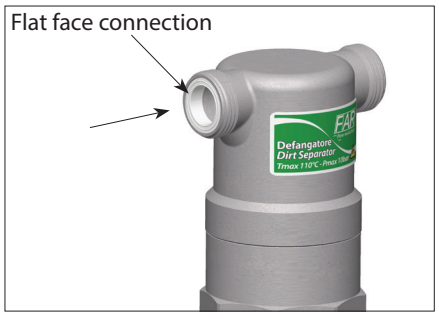
Example of installation on the return line with exchanged connections

COMPACTFAR with straight line connections



Example of under boiler positioning





The dirt separator connection can be changed from flat face to 3/4" Eurokonus, by keeping or removing the white reinforced polyamide adapters fitted on the connections

The dirt separator can be connected to the wall in case of a 3/4" Male flat face connection (A) or in case of a Eurokonus connection (B)

A - 3/4" Flat face wall connection

B - 3/4" Eurokonus wall connection

Chrome-plated eccentric connection with swiveling nuts.
- Connections: 3/4" Female-Female

ART. 5565

Code	centre l.	size	€	box
5565 234	cm. 2	3/4"x3/4"		1

Chrome-plated adapter kit for copper pipe.
- Connections: ¾" x 18

ART. 5807

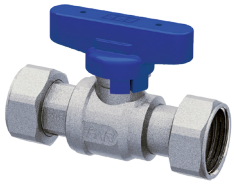
Code	size	€	box
5807 34G18	3/4" - Ø18		1

Chrome-plated connection fitting with swiveling nut.
- Connections: Male-Female
- Flat faced gasket in EPDM
- CW617N forged brass

ART. 8323

Code	F nut	M conn.	€	box
8323 34	3/4"	3/4"		1

Chrome-plated F-F shut-off ball valve with swiveling nuts.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16 bar
- Connections: Female-Female



ART. 3037C

Code	Ø nuts	handle	€	box	pack
3037 12BC	3/4"	blue		5	50

Chrome-plated F-F shut-off ball valve with swiveling nut.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16 bar
- Connections: Female-Female

ART. 3047C

Code	size	Ø nut	handle	€	box	pack
3047 12BC	1/2"	3/4"	blue		5	50
3047 3434BC	3/4"	3/4"	blue		5	50

Chrome-plated connection fitting with swiveling nut.
- Body made of brass CW617N
- Connections: Female-Female
- Flat faced gasket in EPDM

ART. 5304

Code	size	€	box
5304 3434	3/4"		25

Chrome-plated connection fitting with swiveling nut.
- Body made of brass CW617N
- Connections: Male-Female
- Flat faced gasket in EPDM

ART. 5254

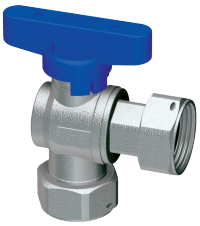
Code	size	€	box
5254 3434	3/4"		25

Chrome-plated extensible connection.
- Body made of brass CW614N
- Swiveling nuts made of brass CW617N
- Double sealing O-ring and EPDM washers

ART. 8882

Code	extension	size	€	box	pack
8882 1534	35-50 mm	3/4"		5	-
8882 151	35-50 mm	1"		5	-

Chrome-plated angled shut-off ball valve complete with double swiveling nuts.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Female-Female

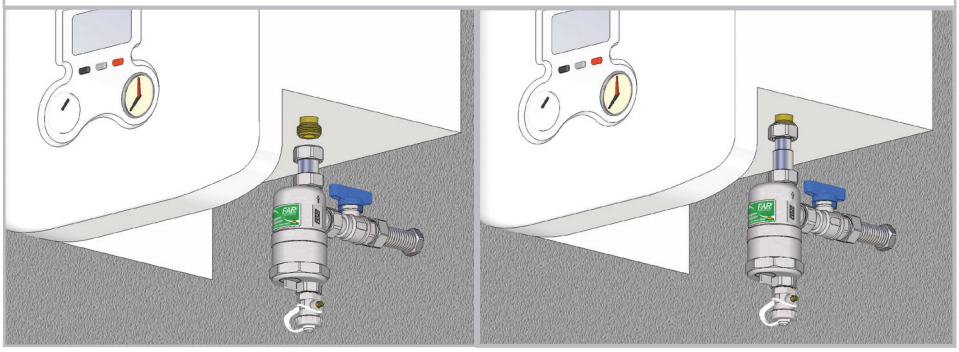


ART. 3099C

Code	size	Ø nut	handle	€	box	pack
3099 34BC	3/4"	3/4"	blue		5	50

OPERATION AND INSTALLATION EXAMPLES

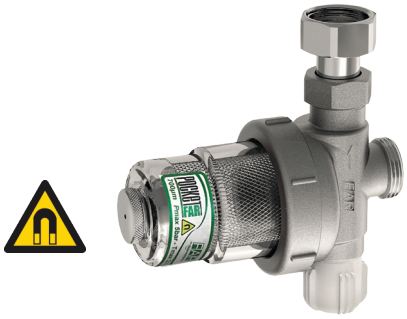
In the pictures here below you can see an example of the COMPACTFAR dirt separator installation, using the extensible connection art.8882 1534.

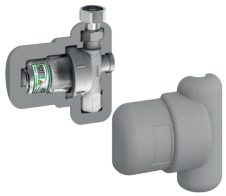


Installation overview of art.5304 on COMPACTFAR dirt separator, placed under boiler.

POCKETFAR - Chrome-plated dirt separator filter for heating systems, complete with magnetic insert for ferrous particles removal.

- Body made of CB753S brass
- Socket made of PA12
- Filtering cartridge made of AISI304 steel, 700 µm filtration level
- 3/4" male-female connections
- 1 cm swiveling joint for the connection to the boiler
- Removable magnetic insert made of neodymium
- Opening/closing handle for extraordinary maintenance





COMPLETE WITH INSULATION

ART. 2280 POCKETFAR

Code	size	Kv [m³/h]	€	box	pack
2280 34	3/4"	3,4		1	20

new

ART. 2281 POCKETFAR

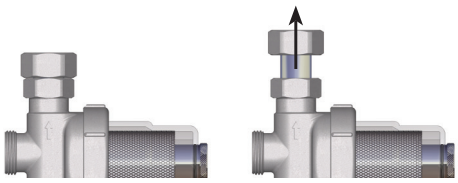
Code	size	Kv [m³/h]	€	box	pack
2281 34	3/4"	3,4		1	12

OPERATION AND INSTALLATION EXAMPLES

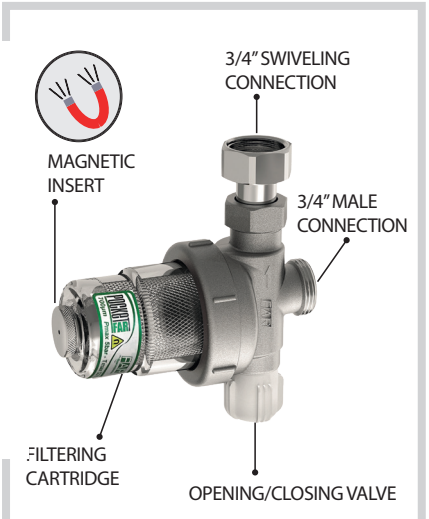
The POCKETFAR magnetic dirt separator filter catches all the impurities and the iron particles that deposit inside the heating system over the time, thus safeguarding the life of the boiler.

INSTALLATION

PocketFAR should be placed on the return line before the boiler, in order to catch all the impurities that might damage the boiler and the pump.



PocketFAR is equipped with an extensible joint (1cm extension) that makes installation easier



TECHNICAL FEATURES

Body material: CB753S brass	Max working temperature: 85°C	Boiler side connection: 3/4" swiveling nut
White handle: ABS	Filtration level: 700 µm	System side connection: 3/4" male eurokonus, with flat faced insert
Filtering cartridge: AISI304	Max working pressure: 4 bar	
O-Ring: EPDM		

Dirt separator for heating systems.

- Body made of CB753S brass
- ***Copper pipe connections***
- Connection to 1/2" upper part with plug
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

COPPER PIPE CONNECTION – ATTACCO TUBO RAME

COMPLETE WITH INSULATION

ART. 2203

Code	size	Kv [m³/h]	€	box	pack
2203 3422	Ø22	11,1		1	6
2203 128	Ø28	19,1		1	6

ART. 2204

Code	size	Kv [m³/h]	€	box	pack
2204 3422	Ø22	11,1		1	6
2204 128	Ø28	19,1		1	6

Dirt separator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- ***Copper pipe connections***
- Connection to 1/2" upper part with plug
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Removable magnetic inserts**
- **Patented**

COPPER PIPE CONNECTION – ATTACCO TUBO RAME

COMPLETE WITH INSULATION

ART. 2214

Code	size	Kv [m³/h]	€	box	pack
2214 3422	Ø22	11,1		1	6
2214 128	Ø28	19,1		1	6

ART. 2215

Code	size	Kv [m³/h]	€	box	pack
2215 3422	Ø22	11,1		1	6
2215 128	Ø28	19,1		1	6

Swiveling dirt separator for heating systems.

- Body made of CB753S brass
- ***Copper pipe connections***
- Connection to 1/2" upper part with plug
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

COPPER PIPE CONNECTION – ATTACCO TUBO RAME

COMPLETE WITH INSULATION

ART. 2210

Code	size	Kv [m³/h]	€	box	pack
2210 3422	Ø22	8,7		1	6
2210 128	Ø28	10,7		1	6

ART. 2211

Code	size	Kv [m³/h]	€	box	pack
2211 3422	Ø22	8,7		1	6
2211 128	Ø28	10,7		1	6

Swiveling dirt separator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- ***Copper pipe connections***
- Connection to 1/2" upper part with plug
- Drain cock for dirt removal
- Nominal pressure: 10 bar
- Max. working temperature: 110°C
- **Removable magnetic inserts**
- **Patented**

COPPER PIPE CONNECTION – ATTACCO TUBO RAME

COMPLETE WITH INSULATION

ART. 2216

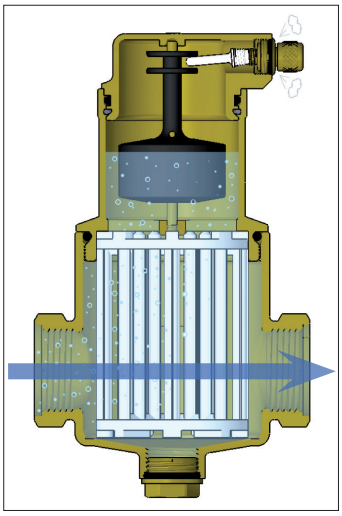
Code	size	Kv [m³/h]	€	box	pack
2216 3422	Ø22	8,7		1	6
2216 128	Ø28	10,7		1	6

ART. 2217

Code	size	Kv [m³/h]	€	box	pack
2217 3422	Ø22	8,7		1	6
2217 128	Ø28	10,7		1	6

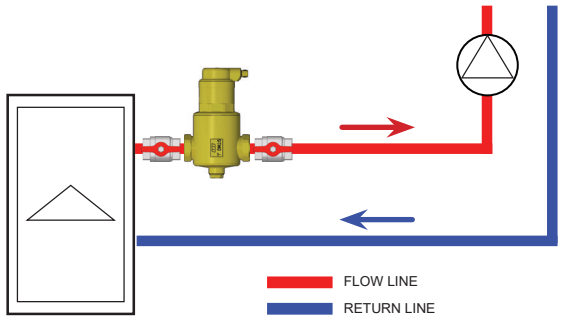
DEAERATORS

The FAR deaerator is installed in cooling and heating systems to remove air bubbles from the circulating water.
Air inside the system can cause corrosion in the interior of the pipe and damage to installed components (such as pumps), leading to malfunctions, loss of heat exchange efficiency and noise in the system.
The structure of the filter cartridge slows the air bubbles and causes a decrease in their kinetic energy so that the air rises to the top. To further divert the flow, vertical bars on the cartridge have wings that help to drive air bubbles upwards.

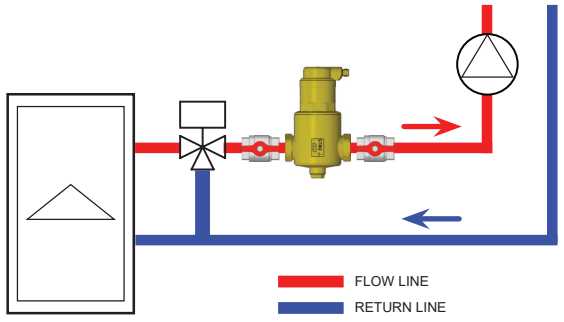


The ideal deaerator position in the heating system is on the supply pipe just after the boiler, where the flow temperature is high.
This is because, as the water is heated in the boiler there is a possibility of bubbles being formed, causing damage to components or malfunctioning. It is recommended that the deaerator is installed between two shut-off valves to allow for maintenance.

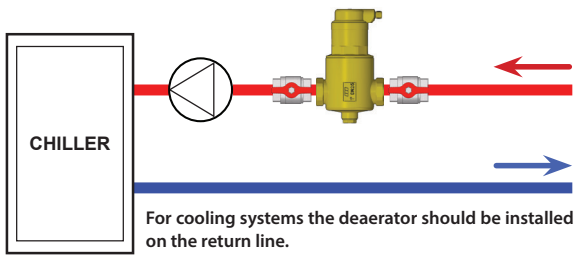
CORRECT INSTALLATION IN TRADITIONAL SYSTEMS



CORRECT INSTALLATION IN SYSTEMS WITH MIXING VALVES

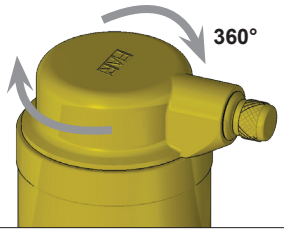


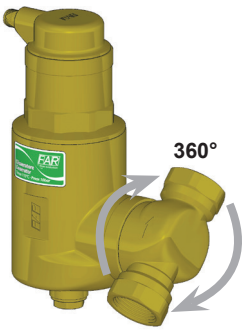
CORRECT INSTALLATION IN COOLING SYSTEMS



For cooling systems the deaerator should be installed on the return line.

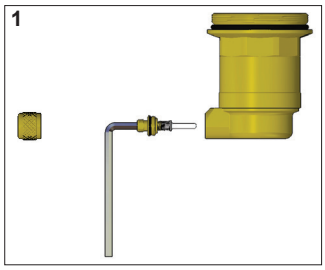
It is possible to rotate the air vent valve through 360° to position the drain appropriately, without needing to shut down the system.

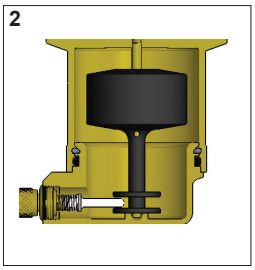




The swiveling deaerator can be installed on the pipeline in either vertical or horizontal position, as the part with threaded connections can rotate 360° arounds its own axis.

In the event of leakage from the air vent valve it is necessary to clean or replace it as follows. Remove the cap and use a 4 mm Allen wrench to unscrew the air vent valve. Then proceed with cleaning or replacement (picture 1). For correct insertion of the stem on the float, turn upside down the cap and screw the air-vent valve (picture 2)





Deaerator for heating systems.
- Body made of CB753S brass
- Connection to pipelines: F-F
- Connection to 1/2" lower part with plug
- Swiveling air vent valve
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

COMPLETE WITH INSULATION

ART. 2250

Code	size	Kv [m³/h]	€	box	pack
2250 34	3/4"	13,2		1	6
2250 1	1"	17,9		1	6
2250 114	1"1/4	32,4		1	6
2250 112	1"1/2	40,6		1	6
2250 2	2"	73,1		1	6

ART. 2251

Code	size	Kv [m³/h]	€	box	pack
2251 34	3/4"	13,2		1	6
2251 1	1"	17,9		1	6
2251 114	1"1/4	32,4		1	6
2251 112	1"1/2	40,6		1	6
2251 2	2"	73,1		1	6

Swiveling deaerator for heating systems.
- Body made of CB753S brass
- Connection to pipelines: F-F
- 1/2" bottom connection with plug
- Swiveling air vent valve
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

COMPLETE WITH INSULATION

ART. 2253

Code	size	Kv [m³/h]	€	box	pack	
2253 34	3/4"	10,2		1	6	
2253 1	1"	12		1	6	
2253 114	1"1/4	13,9		1	6	
2253 112	1"1/2	24,3		1	-	new
2253 2	2"	25		1	-	new

ART. 2263

Code	size	Kv [m³/h]	€	box	pack	
2263 34	3/4"	10,2		1	6	
2263 1	1"	12		1	6	
2263 114	1"1/4	13,9		1	6	
2263 112	1"1/2	24,3		1	-	new
2263 2	2"	25		1	-	new

DISMART - Swiveling deaerator for heating systems.
- Body made of CB753S brass
- Connection to pipelines: F-F
- 1/2" bottom connection with plug
- Swiveling air vent valve
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

COMPLETE WITH INSULATION

ART. 2254 DiSmart

Code	size	Kv [m³/h]	€	box	pack
2254 34	3/4"	6,8		1	15
2254 1	1"	7,5		1	15

See pages 44-45

SKUDOFAR line

ART. 2264 DiSmart new

Code	size	Kv [m³/h]	€	box	pack
2264 34	3/4"	6,8		1	-
2264 1	1"	7,5		1	-

Deaerator for heating systems with flanged connections.
- Painted steel body
- Flanged connections: UNI EN 1092-1
- 1/2" bottom connection with plug
- 1" additional top connection with plug
- Swiveling air vent valve with shut-off valve
- Manual air vent valve
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 100°C
- Supplied with PE pre-formed anti-condensation insulation

*** Available upon request**

ART. 2258

	Code	size	€	box	pack
	2258 50	DN50		1	1
	2258 65	DN65		1	1
	2258 80	DN80		1	1
	2258 100	DN100		1	1
*	2258 125	DN125		1	1
*	2258 150	DN150		1	1

Deaerator for heating systems.

- Body made of CB753S brass
- ***Copper pipe connections***
- Connection to 1/2" lower part with plug
- Swiveling air vent valve
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

COMPLETE WITH INSULATION

ART. 2255

Code	size	Kv [m³/h]	€	box	pack
2255 3422	Ø22	11,1		1	6
2255 128	Ø28	19,1		1	6

ART. 2256

Code	size	Kv [m³/h]	€	box	pack
2256 3422	Ø22	11,1		1	6
2256 128	Ø28	19,1		1	6

Swiveling deaerator for heating systems.

- Body made of CB753S brass
- ***Copper pipe connections***
- Connection to 1/2" lower part with plug
- Swiveling air vent valve
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

COMPLETE WITH INSULATION

ART. 2257

Code	size	Kv [m³/h]	€	box	pack
2257 3422	Ø22	8,7		1	6
2257 128	Ø28	10,7		1	6

ART. 2267

Code	size	Kv [m³/h]	€	box	pack
2267 3422	Ø22	8,7		1	6
2267 128	Ø28	10,7		1	6

DISMART - Swiveling deaerator for heating systems.

- Body made of CB753S brass
- ***Copper pipe connections***
- Connection to 1/2" lower part with plug
- Swiveling air vent valve
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- **Patented**

DiSmart

ART. 2259

Code	size	Kv [m³/h]	€	box	pack
2259 3422	Ø22	6,3		1	15
2259 128	Ø28	7,5		1	15

COMBIFAR - Dirt separator-Deaerator for heating systems.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- Swiveling air vent valve
- Drain cock for dirt removal
- **Patented**

ART. 2220

Code	size	Kv [m³/h]	€	box	pack
2220 34	3/4"	13,2		1	5
2220 1	1"	17,9		1	5

COMBIFAR - Dirt separator-Deaerator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Nominal pressure: 10 bar
- Max. draining pressure: 10 bar
- Max. working temperature:110°C
- Swiveling air vent valve
- Drain cock for dirt removal
- **Removable magnetic inserts**
- **Patented**

ART. 2225

Code	size	Kv [m³/h]	€	box	pack
2225 34	3/4"	13,2		1	5
2225 1	1"	17,9		1	5

COMBIFAR - Swiveling dirt separator-deaerator for heating systems.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- Swiveling air vent valve
- Drain cock for dirt removal
- **Patented**

ART. 2229

Code	size	Kv [m³/h]	€	box	pack
2229 34	3/4"	10		1	5
2229 1	1"	10,7		1	5
2229 114	1"1/4	13,4		1	5

COMBIFAR - Dirt separator-Deaerator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- Connections to pipelines: F-F
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature:110°C
- Swiveling air vent valve
- Drain cock for dirt removal
- **Removable magnetic inserts**
- **Patented**

ART. 2231

Code	size	Kv [m³/h]	€	box	pack
2231 34	3/4"	10		1	5
2231 1	1"	10,7		1	5
2231 114	1"1/4	13,4		1	5

COMBIFAR - Dirt separator-Deaerator for heating systems.

- Body made of CB753S brass
- ***Copper pipe connections***
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- Swiveling air vent valve
- Drain cock for dirt removal
- **Patented**

ART. 2222

Code	size	Kv [m³/h]	€	box	pack
2222 3422	Ø22	11,1		1	5
2222 128	Ø28	19,1		1	5

COMBIFAR - Dirt separator-Deaerator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- ***Copper pipe connections***
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- Swiveling air vent valve
- Drain cock for dirt removal
- **Removable magnetic inserts**
- **Patented**

ART. 2227

Code	size	Kv [m³/h]	€	box	pack
2227 3422	Ø22	11,1		1	5
2227 128	Ø28	19,1		1	5

COMBIFAR - Swiveling dirt separator-deaerator for heating systems.

- Body made of CB753S brass
- ***Copper pipe connections***
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- Swiveling air vent valve
- Drain cock for dirt removal
- **Patented**

ART. 2233

Code	size	Kv [m³/h]	€	box	pack
2233 3422	Ø22	8,7		1	5
2233 128	Ø28	11,5		1	5

COMBIFAR - Dirt separator-Deaerator for heating systems, complete with magnetic inserts for ferrous particles removal.

- Body made of CB753S brass
- ***Copper pipe connections***
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- Swiveling air vent valve
- Drain cock for dirt removal
- **Removable magnetic inserts**
- **Patented**

ART. 2235

Code	size	Kv [m³/h]	€	box	pack
2235 3422	Ø22	8,7		1	5
2235 128	Ø28	11,5		1	5

1 ACID CONDENSATE NEUTRALIZER

Acid condensate neutralizer for condensing boilers complete with:
- n° 1 elbow with 3/4" nut and hose union connection
- n° 1 straight fitting with 3/4" nut and hose union connection
- n° 1 granular recharge
- n° 1 support for wall fixing

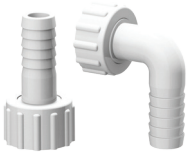
See pages 44-45

SKUDOFAR line

ART. 2400

Code	Ø pipe	€	box	pack
2400 3416	16		1	16
2400 3420	20		1	16

Fittings for acid condensate neutralizer.



ART. 2401

Code	Ø pipe	€	box	pack
2401 3416	16		1	-
2401 3420	20		1	-

Granular recharge for acid condensate neutralizer.
- Pack of 150 g
- Calcium carbonate with additives

new

ART. 9454

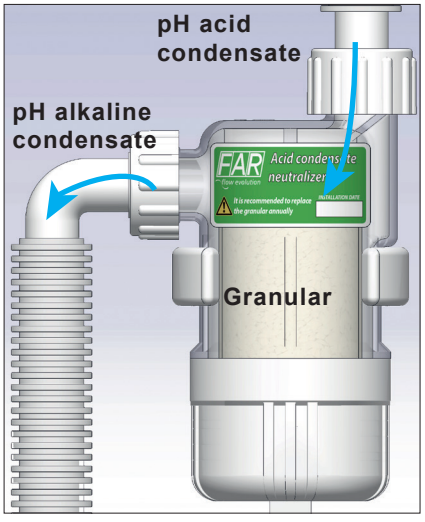
Code	€	box
9454 150		1

OPERATION AND INSTALLATION EXAMPLES

The acid condensate neutralizer is a device that, when installed on the drain pipe of condensing boiler, regulates the water pH making it alkaline.

This allows to preserve the pipes and the drain gutters that over time would be corroded by the acidity of the condensate.

It is recommended to replace annually the granular which corrects the pH to guarantee always effective protection.



POLYFAR - Proportional polyphosphate dosing filter useful for protecting the domestic system from limescale and encrustations, complete with:

- Filter made of AISI304, 100 µm filtration level
- Shut-off ball valve
- Polyphosphate refill
- Fitting with non-return valve

- Chrome-plated body made of CW617N brass
- Chrome-plated fitting made of CW617N brass
- Nut: PA 66 G 30
- Socket: GRILAMID® TR
- Sealing gaskets: peroxide EPDM
- Connections: 1/2"F
- Fitting with swiveling nut: ½" male x ½" female
- Plug: ½" male
- Compatible media: water
- Maximum working pressure: 8 bar
- Differential pressure: ΔP 0.29Bar
- Room temperature: : 5 ÷ 40 °C
- Working temperature: : 5 ÷ 30 °C
- Treated water for refill: 35 - 40 m3*

* Data refer to water with average hardness of 12°f, pH7, temperature of 20 ° C and average use of domestic hot water.

NB Use only original FAR cartridges (Art. 9452)

See pages 44-45

SKUDOFAR line

ART. 2410 PolyFAR

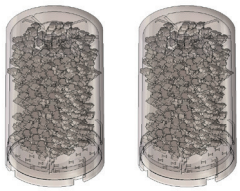
Code	size	Kv [m³/h]	€	box	pack
2410 12	1/2"	1,5		1	-

Anti-condensate protection shell made of expanded polyethylene for PolyFAR dosing filter (ART. 2410).

ART. 2411

Code	€	box	pack
2411 12CT		1	-

Polyphosphate refill in packs of 2 pieces.

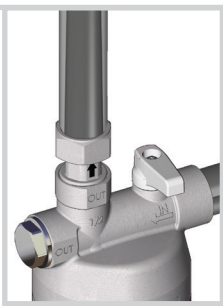


ART. 9452

Code	€	box
9452		1

OPERATION AND INSTALLATION EXAMPLES

PolyFAR dosing filter must be installed on the cold water pipeline upline of the domestic hot water supply system, to protect boilers, water heaters, washing machines and dishwashers. Thanks to the filter with steel mesh of 100 µm integrated in the cartridge, it is not necessary to install any additional safety filter to protect the hot water production system (as indicated in the UNI 8065 standard).
PolyFAR can be installed on both L-shaped and straight pipelines thanks to the special three-connection fitting.



Thanks to the fitting with non-return valve and to the the built-in ball valve, PolyFAR can be quickly isolated from the circuit to carry out the maintenance or the replacement of the polyphosphate refill.

SKUDO1 - Liquid inhibitor for heating and cooling systems.
- Contents of the package: 1L - 25L
- Dose: 1 liter of products every 100 litres of water in the system

SKUDOFAR line

ART. 9455

Code	capacity	€	box
9455 1	1L		6
9455 25	25L		1

SKUDO3 - Liquid cleaner for heating and cooling systems.
- Contents of the package: 1L - 25L
- Dose: 1 liter of products every 100 litres of water in the system

SKUDOFAR line

ART. 9456

Code	capacity	€	box
9456 1	1L		6
9456 25	25L		1

SKUDO7- Liquid biocide for heating and cooling systems.
- Contents of the package: 1L - 25L
- Dose: 1 liter of products every 100 litres of water in the system

SKUDOFAR line

ART. 9457

Code	capacity	€	box
9457 1	1L		6
9457 25	25L		1

SKUDOMONO - Single-dose additive for heating and cooling systems.
- Contents of the package: 60gr
- Dose: 60gr of products every 200 litres of water in the system

SKUDOFAR line

ART. 9459

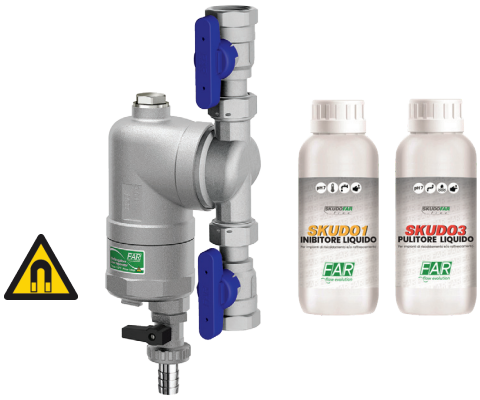
Code	€	box
9459 06		1

COMPACT KIT for the protection of your system.
Contents of the package:
- 3/4" COMPACTFAR dirt separator complete with shut-off ball valve
- SKUDOMONO single-dose additive

ART. 2274SL

Code	size	Kv [m³/h]	€	box	pack
2274 34SL	3/4"	6,35		1	24

SMART KIT for the protection of your system.
Contents of the package:
- SMART dirt separator complete with shut-off ball valves
- SKUDO3 liquid cleaner
- SKUDO1 Liquid inhibitor



ART. 2271SL

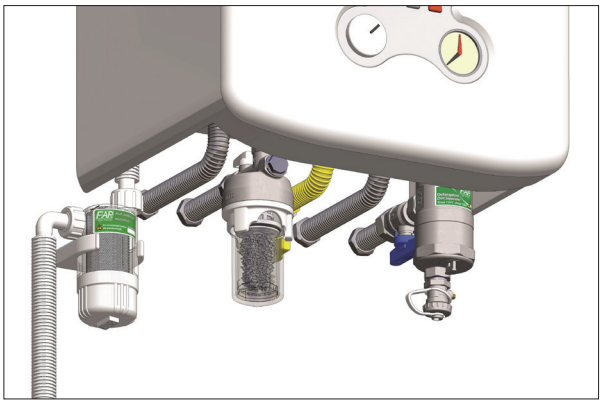
Code	size	Kv [m³/h]	€	box	pack
2271 34SL	3/4"	6,8		1	15

SKUDOFAR line

The SKUDOFAR product line protects the system, ensuring the correct operation of all installed components.
By installing SKUDOFAR products you get advantages, such as:

- Consumption reduction
- Improved efficiency
- Noise reduction
- Long life of components
- Good treatment of incoming water and condensation

These products have been designed and manufactured following the right installation rules and the current standards.



Installation example of the acid condensate neutralizer, the PolyFAR dosing filter and the CompactFAR dirt separator under a domestic boiler

Acid condensate neutralizer

Useful to treat the acid condensate produced by condensing boilers before directing it into the drain system. By neutralizing the condensation, the problem of corrosion on gutters, channels or drainage pipes is avoided.

PolyFAR polyphosphate dosing filter

Current regulations require the installation, at the entrance of the sanitary system, of a filter and a device that acts on the hardness of the water, reducing it, in order to eliminate limescale. PolyFAR is a device that combines two needs: it reduces the hardness of the water thanks to polyphosphates and stops impurities through a built-in filter cartridge.

FAR deaerators

The removal of air bubbles in the heating and cooling circuits allows to reduce consumption, noise and preserve the integrity of the system components. The Standards in force provide the installation of special devices that allow the air to be separated and automatically discharged outside. FAR deaerators, installed near the heat generator, remove the air bubbles in the system thanks to the patented cartridge and to the efficient swiveling discharge system.

FAR dirt separator with magnetic insert

Magnetic dirt separators are essential components to ensure the efficiency of the heating and cooling systems and FAR offers a wide range. All models have a high separation efficiency of suspended particles thanks to the patented cartridge and to the combination of the magnetic and gravitational effect, preserving the integrity of all installed components.

SKUDOFAR chemical additives

According to the current Standard, FAR offers a range of chemical additives for the water treatment for new and existing heating and cooling systems.

SKUDO1 Liquid inhibitor	protection against corrosion, encrustations, limestone, hydrogen formation and microbial growth.
SKUDO3 Liquid cleaner	removal of sludge, encrustations and debris restoring the correct operation of the system.
SKUDO7 Liquid biocide	control and removal of microbial, bacterial and algae growth.
SKUDOMONO Single-dose additive	protection against corrosion and algae growth.

Chrome-plated automatic filling unit for closed circuit systems.
Equipped with a pad printed knob to set the pressure, non-return valve, stop cock and strainer on the inlet.

- Inlet connection (unit): 1/2" male
- Outlet connection: 1/2" female
- Pressure gauge connection: 1/4" female
- Max. working temperature: 95°C
- Minimum working temperature: 5°C
- Max. upstream pressure: 10 bar
- Set pressure: 0,5÷4 bar

WITH PRESSURE GAUGE CONNECTION

ART. 2105

Code	size	€	box	pack
2105 12	1/2"		1	20

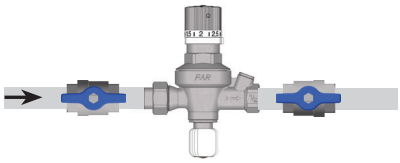
WITH PRESSURE GAUGE

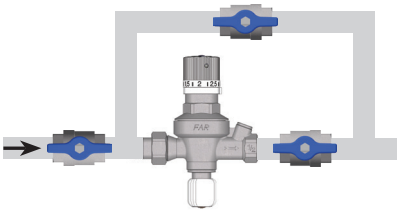
ART. 2106

Code	size	€	box	pack
2106 12	1/2"		1	20

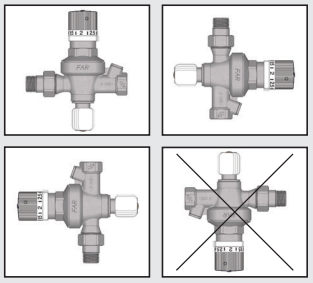
OPERATION AND INSTALLATION EXAMPLES

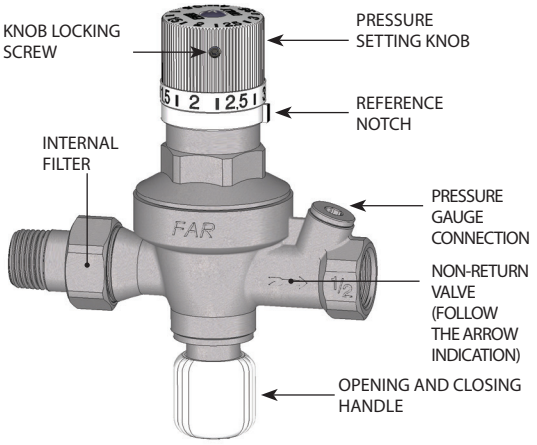
The automatic filling unit is able to automatically fill the heating system up to the pre-set pressure. It is also useful in compensating for any pressure drops resulting from the discharge of air from the circuit through the air vent valves. The filling unit is normally installed on the feed line between two shut off valves, so that it can be removed without draining the whole system. It is advisable to install the filling unit with a bypass, in order to reduce the filling time. In this way it is possible to fill 2/3 of the system with the bypass and the rest with the filling unit in order to facilitate the eventual bleeding of air from the system.





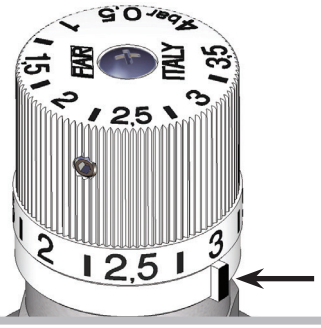
The filling unit can be installed in a horizontal or vertical position, but not upside down.





PRESSURE SETTING KNOB

The pressure values are pad printed on the knob. To set the pressure please use the reference notch indicated by the arrow.



OPENING AND CLOSING HANDLE

The water inlet in the circuit is closed by screwing the handle. You open the water inlet by unscrewing the handle.

Once the system is full and the pressure is set, please close the opening and closing handle. In case the working pressure drops, please open the handle again and the system will get automatically back to the initially set pressure.

Chrome-plated automatic filling unit without pressure gauge for closed circuit systems. Complete with non-return valve, stop cock and strainer.

- Inlet connection (union): 1/2" male
- Outlet connection: 1/2" female
- Pressure gauge connection: 1/4" female
- Max. working temperature: 95°C
- Minimum working temperature: 5°C
- Max. upstream pressure: 10 bar
- Set pressure: 0,5÷4 bar

ART. 2100

Code	size	€	box	pack
2100	1/2"		1	20

Chrome-plated automatic filling unit with pressure gauge for closed circuit systems. Complete with non-return valve, stop cock and strainer.

- Inlet connection (union): 1/2" male
- Outlet connection: 1/2" female
- Pressure gauge connection: 1/4" female
- Max. working temperature: 95°C
- Minimum working temperature: 5°C
- Max. upstream pressure: 10 bar
- Set pressure: 0,5÷4 bar
- Pressure gauge scale: 0÷6 bar

ART. 2110

Code	size	€	box	pack
2110	1/2"		1	20

TERMOFAR - Chrome-plated thermostatic mixer.

- Setting range: 30÷65°C
- Connections: female
- Max. input temperature: 95°C
- TEA®PLUS surface treatment on the inside and outside.

ART. 3950

Code	size	€	box	pack
3950 12	1/2"		1	60
3950 34	3/4"		1	60
3950 1	1"		1	60

TERMOFAR - Chrome-plated thermostatic mixer.

- Setting range: 30÷65°C
- Connections: male, complete with unions and gaskets
- Max. input temperature: 95°C
- TEA®PLUS surface treatment on the inside and outside

ART. 3956

Code	size	€	box	pack
3956 12	1/2"		1	50
3956 34	3/4"		1	20
3956 1	1"		1	20
3956 114	1"1/4		1	18
3956 112	1"1/2		1	10

TERMOFAR - Chrome-plated thermostatic mixer.

- Setting range: 30÷65°C
- **Non-return valve on side connections**
- Male connections: complete with unions and gaskets
- Max. input temperature: 95°C
- TEA®PLUS surface treatment on the inside and outside

ART. 3956VR

Code	size	€	box	pack
3956 12VR	1/2"		1	50
3956 34VR	3/4"		1	20
3956 1VR	1"		1	20

TERMOFAR - Chrome-plated thermostatic mixer.

- Setting range: 30÷65°C
- Connections: male
- Max. input temperature: 95°C
- TEA®PLUS surface treatment on the inside and outside

ART. 3957

Code	size	€	box	pack
3957 34	3/4"		1	60
3957 1	1"		1	60

Angled By-pass differential valve.

- Body made of CW617N brass
- Connections: 3/4" M-F
- Calibration: 0,1 – 0,6 bar
- Protection and regulation cap

ART. 2020

Code	size	€	box	pack
2020 34	3/4"		1	50

Straight By-pass differential valve.

- Body made of CW617N brass
- Connections: 3/4" M-M
- Calibration: 0,1 – 0,6 bar
- Protection and regulation cap

ART. 2021

Code	size	€	box	pack
2021 34	3/4"		1	50

Male-female cock complete with stuffing box and flange for pressure gauge installation.

- Body made of CW617N brass
- Plastic handle

ART. 2560

Code	size	€	box	pack
2560 14	1/4"		10	100
2560 38	3/8"		10	100
2560 12	1/2"		10	100

Male-female swiveling pipe coil for pressure gauge installation.

- Ø 8 copper pipe
- Fittings made of brass
- Sizes: 1/4"-3/8"-1/2"

ART. 2561

Code	size	€	box	pack
2561 14	1/4"		10	100
2561 38	3/8"		10	100
2561 12	1/2"		10	100

Air separator unit for boiler, brass version. Complete with:

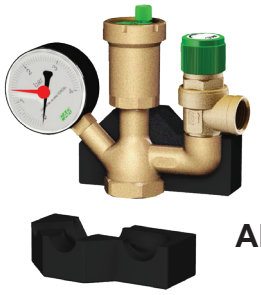
- Body made of CB753S brass
- 0÷4 bar pressure gauge
- Automatic air vent valve
- 3 bar safety valve, conformed to PED standard
- Main connection: 1" female
- Non-return valves for air vent valve and pressure gauge

ART. 2112

Code	size	€	box	pack
2112	1"		1	10

Air separator unit for boiler, brass version. Complete with:

- Body made of CB753S brass
- 0÷4 bar pressure gauge
- Automatic air vent valve
- 3 bar safety valve, conformed to PED standard
- Main connection: 1" female
- Non-return valves for air vent valve and pressure gauge
- Insulation



ART. 2113

Code	size	€	box	pack
2113	1"		1	10

Air separator unit for boiler, brass version. Complete with:

- Body made of CB753S brass
- 0÷4 bar pressure gauge
- Automatic air vent valve
- 3 bar safety valve, conformed to PED standard
- Main connection: 1" female
- Interchangeable non-return valves for air vent valve and pressure gauge

ART. 2115

Code	size	€	box	pack
2115	1"		1	10

Air separator unit for boiler, brass version. Complete with:

- Body made of CB753S brass
- 0÷4 bar pressure gauge
- Automatic air vent valve
- 3 bar safety valve, conformed to PED standard
- Main connection: 1" female
- Interchangeable non-return valves for air vent valve and pressure gauge
- Insulation

ART. 2116

Code	size	€	box	pack
2116	1"		1	10

Ø 63 mm pressure gauge.

- 1/4" M radial or rear connection
- Protection level: IP 31
- Accuracy: Cl. 1,6
- Scale: 0÷4 bar
- Scale: 0÷6 bar
- Scale: 0÷10 bar
- Scale: 0÷25 bar

R= RADIAL	
P= REAR	

ART. 2500

Code	pressure scale	size	€	box	pack
2500 R04	0÷4 bar	1/4"		1	100
2500 R06	0÷6 bar	1/4"		1	100
2500 R10	0÷10 bar	1/4"		1	100
2500 R25	0÷25 bar	1/4"		1	100
2500 P04	0÷4 bar	1/4"		1	100
2500 P06	0÷6 bar	1/4"		1	100
2500 P10	0÷10 bar	1/4"		1	100

Ø 80 mm thermo-manometer.

- 1/4" central rear connection in brass
- Non-return valve: 1/4" female x 1/2" male
- Protection level: IP 31
- Accuracy: Cl. 1,6
- Temperature scale: 0÷120°C
- Pressure scale: 0÷4 bar
- Pressure scale: 0÷10 bar

ART. 2550

Code	temperature scale	pressure scale	€	box	pack
2550 P04	0÷120 °C	0-4 bar		1	50
2550 P10	0÷120 °C	0-10 bar		1	50

Ø 40 mm bimetallic temperature gauge.

- 3/8" male connection seat
- Temperature scale: 0÷120°C
- 36 mm sheath

ART. 2650

Code	temperature scale	size	€	box	pack
2650	0÷120 °C	3/8"		1	240

Ø 50 mm pressure gauge.

- 1/4" M radial connection
- Protection level: IP 31
- Accuracy: Cl. 1,6
- Scale: 0÷6 bar
- Scale: 0÷10 bar
- Scale: 0÷25 bar

ART. 2501

Code	pressure scale	size	€	box	pack
2501 R06	0÷6 bar	1/4"		1	100
2501 R10	0÷10 bar	1/4"		1	100
2501 R25	0÷25 bar	1/4"		1	100

Ø 80 mm bimetallic temperature gauge.

- 1/2" male connection seat
- Temperature scale: 0÷120°C
- 50 mm -100 mm sheath

ART. 2600

Code	temperature scale	sheath	size	€	box	pack
2600	0÷120 °C	50mm	1/2"		1	50
2600 100	0÷120 °C	100mm	1/2"		1	50

Ø 63 mm bimetallic temperature gauge.

- 3/8" male connection seat
- Temperature scale: -30÷50° C
- 27 mm sheath

ART. 2601

Code	temperature scale	size	€	box	pack
2601	-30÷50 °C	3/8"		1	50

Ø 40 mm bimetallic temperature gauge.

- 3/8" male connection seat
- Temperature scale: 0÷80° C
- 36 mm sheath

ART. 2651

Code	temperature scale	size	€	box	pack
2651	0÷80 °C	3/8"		1	240

Assembled manifold for the control and the safety of central heating systems with thermal power higher than 35Kw.

- Manifold body: painted steel
- Max. working temperature: 110°C
- Max. upstream pressure: 10 bar
- **Main connections: 1"1/4 – 1"1/2 – 2", with fitting**

Components features:

- Designed for installation of safety valve: 1x3/4" – 1x1" – 2x1"
- Pressure safety switch
- Low limit pressure safety switch
- Safety thermostat with manual reset
- Temperature gauge
- Seat for fuel shut-off valve
- Control seat
- 3-way temperature gauge holder valve
- Swiveling pipe coil for pressure gauge installation

ART. 2118

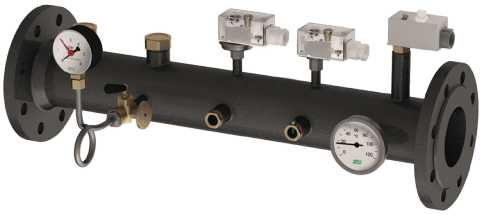
Code	size	€	box	pack
2118 114	1"1/4		1	1
2118 112	1"1/2		1	1
2118 2	2"		1	1

Assembled manifold for the control and the safety of central heating systems with thermal power higher than 35Kw.

- Manifold body: painted steel
- Max. working temperature: 110°C
- Max. upstream pressure: 10 bar
- **Main connections: DN50-DN65-DN80 (flanges PN16 – UNI EN ISO 1092-1)**

Components features:

- Designed for installation of safety valve: 1x3/4" – 1x1" – 2x1"
- Pressure safety switch
- Low limit pressure safety switch
- Safety thermostat with manual reset
- Temperature gauge
- Seat for fuel shut-off valve
- Control seat
- 3-way temperature gauge holder valve
- Swiveling pipe coil for pressure gauge installation



ART. 2118

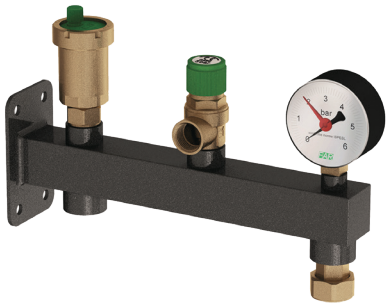
Code	size	€	box	pack
2118 50	DN50		1	1
2118 65	DN65		1	1
2118 80	DN80		1	1

Assembled manifold with wall connection and accessories.

- Manifold body: painted steel
- Max. working temperature: 110°C
- Max. upstream pressure: 10 bar

Components features:

- Connection to the system: ¾" female
- Connection to the expansion tank: ¾" female with swiveling nut
- Pressure gauge: 0÷4 - 0÷10 bar
- Safety valve: 3 - 6 bar
- Automatic air vent valve complete with non-return valve

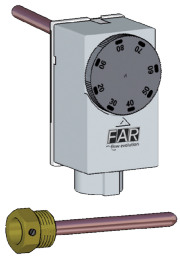


ART. 2119

Code	size	bar	€	box	pack
2119 0304	3/4"	3		1	1
2119 0610	3/4"	6		1	1

Immersion regulation thermostat.

- In accordance with INAIL (ex ISPESL)
- Temperature range: 10÷90°C
- Protection level: IP40
- Sheath: 1/2" (l=100mm)

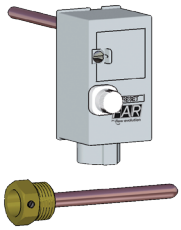


ART. 7956

Code	€	box	pack
7956		1	-

Immersion safety thermostat.

- In accordance with INAIL (ex ISPESL)
- With manual reset
- Locking temperature: 100°C (+0°C -6°C)
- Protection level: IP40
- Sheath: 1/2" (l=100mm)

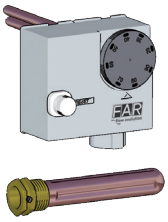


ART. 7954

Code	€	box	pack
7954		1	-

Double immersion safety and regulation thermostat.

- In accordance with INAIL (ex ISPESL)
- Temperature range: 10÷90°C
- Locking temperature: 100°C (+0°C -6°C)
- With manual reset
- Protection level: IP40
- Sheath: 1/2" (l=100mm)

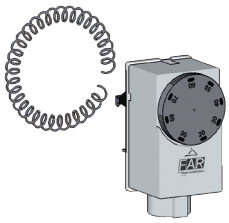


ART. 7952

Code	€	box	pack
7952		1	-

Safety thermostat with contact probe.

- control temperature range: 20÷90°C
- Protection level: IP40



ART. 7951

Code	€	box	pack
7951		1	-

MAXIMUM pressure safety switch, with manual reset.

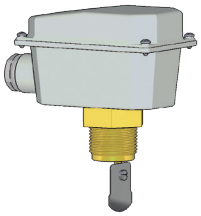
- In accordance with INAIL (ex ISPESL)
- In accordance with PED
- Preset: 3 bar
- Max. media temperature: 110°C
- Max. room temperature: 55°C
- Nominal power: 16A (10A)
- Nominal voltage: 250V
- Protection level: IP44
- Connection:1/4" Female

ART. 7960

Code	setting range	€	box	pack
7960	2-4,5 bar		1	20

Flow switch.

- For pipeline from 1" to 8"
- Working temperature: -20÷100°C
- Max. pressure: 10bar
- Protection level: IP65
- Connection: 1" M

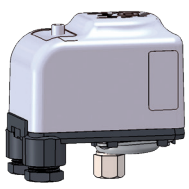


ART. 7955

Code	€	box	pack
7955		1	-

MINIMUM pressure safety switch, with manual reset.

- In accordance with INAIL (ex ISPESL)
- In accordance with PED
- Preset: 0,9 bar
- Max. media temperature: 110°C
- Max. room temperature: 55°C
- Nominal power: 16A (10A)
- Nominal voltage: 250V
- Protection level: IP44
- Connection:1/4" Female

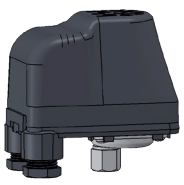


ART. 7961

Code	setting range	€	box	pack
7961	0,5-1,7 bar		1	20

Pressure switch for BOOSTING SETS.

- Max. media temperature: 110°C
- Max. room temperature: 55°C
- Wiring:Triple-phase and Single-phase
- Nominal power: 16A (10A)
- Nominal voltage: 500V
- Protection level: IP44
- Connection: 1/4" swiveling female

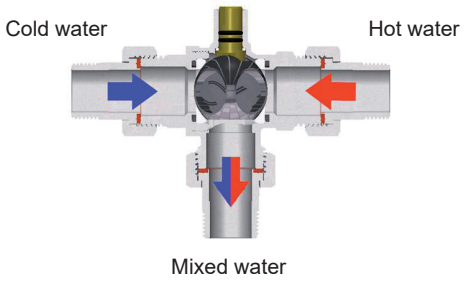


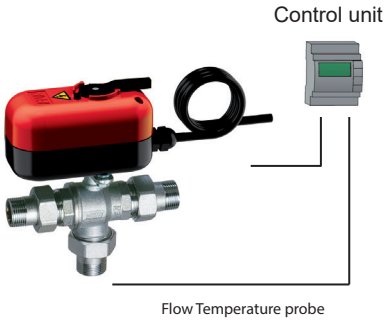
ART. 7962

Code	setting range	€	box	pack
7962 01	1-5 bar		1	20
7962 02	3-12 bar		1	20

1 3-POINT ACTUATOR FOR MIXING VALVE

The 3-way mixing valve is a ball valve with full bore flow.
They are available in M-M, M-F and F-F versions in 1/2", 3/4", 1", 1"1/4 sizes.



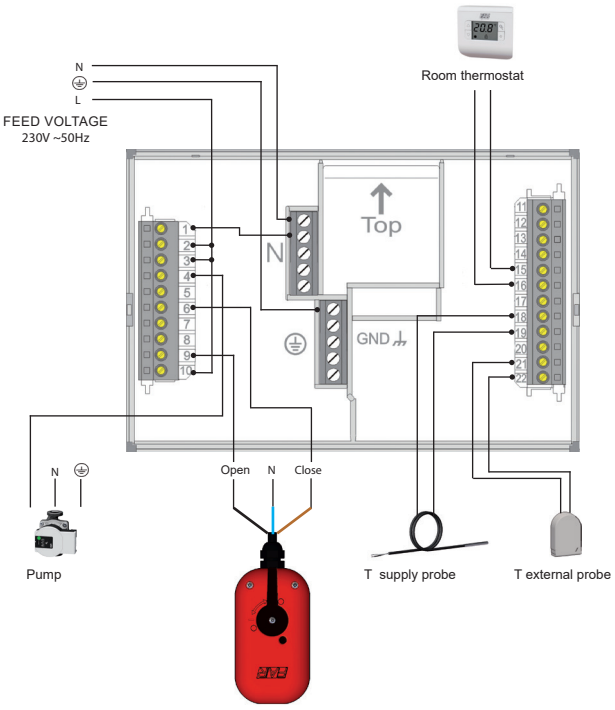


In order to maintain the mixed water at the desired temperature, a control unit - properly connected to an actuator - adjusts the position of the ball via a signal from a temperature probe located at the valve outlet.

When using the modulating mixing valve it is necessary to include the control unit:

- **Temperature control** **Art. 9611 - Complete with control unit, delivery probe and external probe.**

Description and wiring scheme with control unit, art. 9611:
The scheme shows an example of control unit connection, Art.9611, (with supply probe and external probe) with the mixing valve installed with hot water on the left and cold water on the right. In the opposite situation, just reverse the black and brown cable.



ART. 3010 - 3011

Description and wiring scheme

COLOUR	WIRING	DESCRIPTION
BLUE	NEUTRAL	CONNECTION TO THE NEUTRAL
BROWN	PHASE - CLOSE	VALVE CLOSING
BLACK	PHASE - OPEN	VALVE OPENING

Technical features

Actuator type:	3-point
Feed voltage:	24V - 230V 50Hz
Torque:	10Nm
Rotation angle:	90°
Protection level:	IP54
Rotation time:	180 s

SMALL - 3-point actuator with manual release and auxiliary microswitch for mixing zone control ball valves.

- External connection cable length: 1 m.
- Feed voltage: 230 V 50 Hz
- Rotation angle: 90°
- Rotation time: 180 seconds
- Protection level: IP54
- Torque: 10Nm

SMALL - 3-point actuator with manual release and auxiliary microswitch for mixing zone control ball valves.

- External connection cable length: 1 m.
- Feed voltage: 24 V 50 Hz
- Rotation angle: 90°
- Rotation time: 180 seconds
- Protection level: IP54
- Torque: 10Nm

ART. 3010

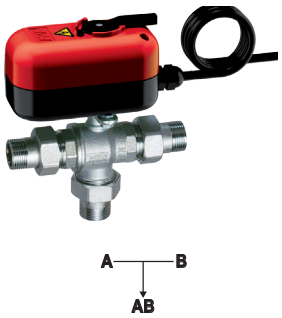
Code	voltage	opening time	€	box	pack
3010 40	230 V	180 s		1	30

ART. 3011

Code	voltage	opening time	€	box	pack
3011 40	24 V	180 s		1	30

Chrome-plated 3-way mixing zone control ball valve equipped with unions, nuts and 3-point 230 V actuator.

- Connections: male-male
- Full bore flow



Chrome-plated 3-way mixing zone control ball valve equipped with unions, nuts and 3-point 24 V actuator.

- Connections: male-male
- Full bore flow

ART. 301020

Code	size	opening time	€	box	pack
301020 1240	1/2"	180 s		1	12
301020 3440	3/4"	180 s		1	12
301020 140	1"	180 s		1	12
301020 11440	1"1/4	180 s		1	12

ART. 301120

Code	size	opening time	€	box	pack
301120 1240	1/2"	180 s		1	12
301120 3440	3/4"	180 s		1	12
301120 140	1"	180 s		1	12
301120 11440	1"1/4	180 s		1	12

Chrome-plated 3-way mixing zone control ball valve equipped with 3-point 230 V actuator.

- Connections: female-female
- Full bore flow

Chrome-plated 3-way mixing zone control ball valve equipped with 3-point 24 V actuator.

- Connections: female-female
- Full bore flow

ART. 301021

Code	size	opening time	€	box	pack
301021 1240	1/2"	180 s		1	12
301021 3440	3/4"	180 s		1	12
301021 140	1"	180 s		1	12

ART. 301121

Code	size	opening time	€	box	pack
301121 1240	1/2"	180 s		1	12
301121 3440	3/4"	180 s		1	12
301121 140	1"	180 s		1	12

Chrome-plated 3-way mixing zone control ball valve equipped with 3-point 230 V actuator.

- Connections: male-female
- Full bore flow

Chrome-plated 3-way mixing zone control ball valve equipped with 3-point 24 V actuator.

- Connections: male-female
- Full bore flow

ART. 301022

Code	size	opening time	€	box	pack
301022 1240	1/2"	180 s		1	12
301022 3440	3/4"	180 s		1	12
301022 140	1"	180 s		1	12
301022 11440	1"1/4	180 s		1	12

ART. 301122

Code	size	opening time	€	box	pack
301122 1240	1/2"	180 s		1	12
301122 3440	3/4"	180 s		1	12
301122 140	1"	180 s		1	12
301122 11440	1"1/4	180 s		1	12

1 0-10V MODULATING ACTUATOR FOR MIXING VALVE

SMALL - Electric modulating actuator with manual release for ball mixing valve.

- External connection cable length: 1 m
- Feed voltage: 24V 50Hz
- Rotation angle: 90°
- Rotation time: 180 seconds
- Protection level: IP54
- Analog control input: **0-10V** or **4-20mA**
- Torque: 10Nm

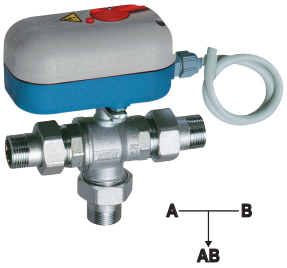
0-10V

ART. 3012

Code	voltage	opening time	analog control input	€	box	pack
3012 180	24 V	180 s	0-10V 4-20mA		1	30

Chrome-plated 3-way mixing zone control ball valve equipped with unions, nuts and **0-10V** electronic modulating actuator, 24 V.

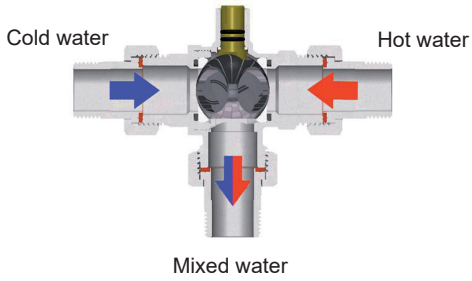
- Connections: male-male
- Full bore flow



0-10V

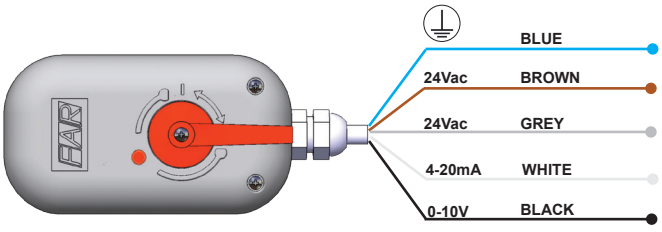
ART. 301220

Code	size	opening time	€	box	pack
301220 12180	1/2"	180 s		1	12
301220 34180	3/4"	180 s		1	12
301220 1180	1"	180 s		1	12
301220 114180	1"1/4	180 s		1	12



The three-way mixing valve is a full bore ball valve.
The valve bodies are available in M-M connections and 1/2 ", 3/4", 1 ", 1" ¼ sizes.
It is necessary to have the electronic control with output 0-10V, or 4-20mA in order to control the mixing valve. When suitably connected to the actuator, and thanks to a temperature sensor installed at the output, the valve adjusts the position of the ball in order to obtain the mixed fluid at the desired temperature.

The diagram shows the wiring scheme of the actuator art.3012 180, and the wire colours for the correct connection.
The actuator must be supplied with 24V alternating current by connecting the BLUE (Neutral) and BROWN (phase) wires.
The GREY wire must also be connected to the phase to determine the starting point of the actuator's opening. In this case, by connecting the GREY wire to phase and installing the actuator on a 2-way valve, with 0V control voltage the valve is in the closed position, while with 10V it is completely open.



Description and wiring scheme

COLOUR	WIRING	DECRIPTION
BLUE	NEUTRAL	Connection to the neutral 24Vac - Actuator voltage
BROWN	PHASE	Connection to the phase 24Vac - Actuator voltage
BLACK	0-10 V	Connection to the control unit 0-10Vdc
WHITE	4-20mA	Connection to the control unit 4-20mA
GREY	PHASE	Connection to the phase 24Vac- Reverse rotation start point

Technical features

Actuator type:	Modulating
Feed voltage:	24V - 50Hz
Analog control input:	0-10V or 4-20mA
Torque:	10Nm
Rotation angle:	90°
Protection level:	IP54
Rotation time:	180 s
Cable length:	1m

Straight automatic air vent valve for high pressures.

- Body made of CB753S brass
- Connection: 1/2" F
- Swiveling air vent valve
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C

ART. 2065

Code	size	€	box	pack
2065 12	1/2"		1	25

Straight automatic air vent valve for high pressures.

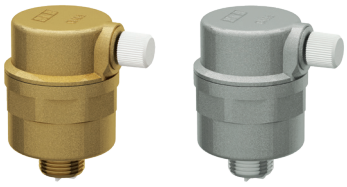
- Body made of CB753S brass
- Connection: 1/2" M
- Swiveling air vent valve
- Nominal pressure: 10 bar
- Max. discharge pressure: 10 bar
- Max. working temperature: 110°C
- **Preassembled gasket at the base of the thread**

ART. 2066

Code	size	€	box	pack
2066 12	1/2"		1	25

GAISER - Air vent valve with lateral purge.

- Body made of CW617N brass
- Nominal pressure: 10 bar
- Max. discharge pressure: 4 bar
- Max. working temperature: 110°C
- Float: PP
- **Preassembled gasket at the base of the thread**

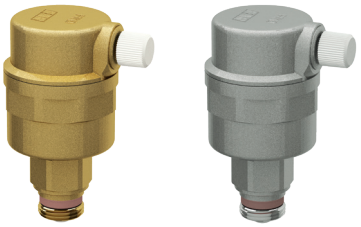


ART. 2040 - 2043

Code	finish	size	€	box	pack
2040 38	brass	3/8"		10	100
2040 12	brass	1/2"		10	100
2043 38	chrome	3/8"		10	100
2043 12	chrome	1/2"		10	100

GAISER - Air vent valve with lateral purge.

- Body made of CW617N brass
- Nominal pressure: 10 bar
- Max. discharge pressure: 4 bar
- Max. working temperature: 110°C
- Float: PP
- **With non-return valve**
- **Preassembled gasket at the base of the thread**



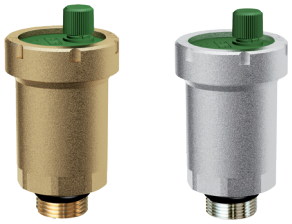
ART. 2041 - 2044

Code	finish	size	€	box	pack
2041 38	brass	3/8"		10	100
2041 12	brass	1/2"		10	100
2044 38	chrome	3/8"		10	100
2044 12	chrome	1/2"		10	100

1 AIR VENT VALVES

GAISER - Straight automatic air vent valve.

- Nominal pressure: 10 bar
- Max. discharge pressure: 4 bar
- Max. working temperature: 110°C
- Float: PP

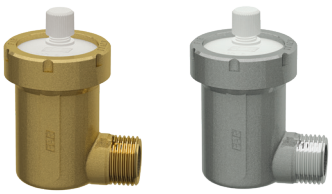


ART. 2045 - 2050

Code	finish	size	€	box	pack
2045 38	brass	3/8"		10	100
2045 12	brass	1/2"		10	100
2045 34	brass	3/4"		10	100
2050 38	chrome	3/8"		10	100
2050 12	chrome	1/2"		10	100
2050 34	chrome	3/4"		10	100

GAISER - Angled automatic air vent valve.

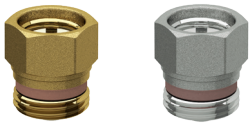
- Nominal pressure: 10 bar
- Max. discharge pressure: 4 bar
- Max. working temperature: 110°C
- Float: PP



ART. 2055 - 2060

Code	finish	size	€	box	pack
2055 38	brass	3/8"		10	100
2055 12	brass	1/2"		10	100
2055 34	brass	3/4"		10	100
2060 38	chrome	3/8"		10	100
2060 12	chrome	1/2"		10	100
2060 34	chrome	3/4"		10	100

Non-return valve for air vent valve.



ART. 2075 - 2080

Code	finish	size	€	box	pack
2075 3814	brass	3/8"x1/4"		10	-
2075 38	brass	3/8"x3/8"		10	-
2075 3812	brass	3/8"x1/2"		10	-
2075 12	brass	1/2"x1/2"		10	-
2080 38	chrome	3/8"x3/8"		10	-
2080 3812	chrome	3/8"x1/2"		10	-
2080 12	chrome	1/2"x1/2"		10	-

Brass safety valve for heating systems and domestic services.

- Set pressure: 1 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 7 - 8 - 10 bar
- Inlet: 1/2" male
- Outlet: 1/2" -3/4" female
- Max. temperature: 115°C

In accordance with 2014/68/UE "PED" class IV and with D.Lgs.15.02.2016 n.26.

CE 0425

ART. 2004

Code	bar	size	€	box	pack
2004 121210	1	1/2"x1/2"		10	100
2004 121215	1,5	1/2"x1/2"		10	100
2004 121220	2	1/2"x1/2"		10	100
2004 121225	2,5	1/2"x1/2"		10	100
2004 121230	3	1/2"x1/2"		10	100
2004 121235	3,5	1/2"x1/2"		10	100
2004 121240	4	1/2"x1/2"		10	100
2004 121250	5	1/2"x1/2"		10	100
2004 121260	6	1/2"x1/2"		10	100
2004 121270	7	1/2"x1/2"		10	100
2004 121280	8	1/2"x1/2"		10	100
2004 121200	10	1/2"x1/2"		10	100
2004 123410	1	1/2"x3/4"		10	100
2004 123415	1,5	1/2"x3/4"		10	100
2004 123420	2	1/2"x3/4"		10	100
2004 123425	2,5	1/2"x3/4"		10	100
2004 123430	3	1/2"x3/4"		10	100
2004 123435	3,5	1/2"x3/4"		10	100
2004 123440	4	1/2"x3/4"		10	100
2004 123450	5	1/2"x3/4"		10	100
2004 123460	6	1/2"x3/4"		10	100
2004 123470	7	1/2"x3/4"		10	100
2004 123480	8	1/2"x3/4"		10	100
2004 123400	10	1/2"x3/4"		10	100

Brass safety valve for heating systems and domestic services.

- Set pressure: 1 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 7 - 8 - 10 bar
- Inlet: 1/2"-3/4" female
- Outlet: 1/2"-3/4" female
- Max. temperature: 115°C

In accordance with 2014/68/UE "PED" class IV and with D.Lgs.15.02.2016 n.26.

CE 0425

ART. 2005

Code	bar	size	€	box	pack
2005 121210	1	1/2"x1/2"		10	100
2005 121215	1,5	1/2"x1/2"		10	100
2005 121220	2	1/2"x1/2"		10	100
2005 121225	2,5	1/2"x1/2"		10	100
2005 121230	3	1/2"x1/2"		10	100
2005 121235	3,5	1/2"x1/2"		10	100
2005 121240	4	1/2"x1/2"		10	100
2005 121250	5	1/2"x1/2"		10	100
2005 121260	6	1/2"x1/2"		10	100
2005 121270	7	1/2"x1/2"		10	100
2005 121280	8	1/2"x1/2"		10	100
2005 121200	10	1/2"x1/2"		10	100
2005 123410	1	1/2"x3/4"		10	100
2005 123415	1,5	1/2"x3/4"		10	100
2005 123420	2	1/2"x3/4"		10	100
2005 123425	2,5	1/2"x3/4"		10	100
2005 123430	3	1/2"x3/4"		10	100
2005 123435	3,5	1/2"x3/4"		10	100
2005 123440	4	1/2"x3/4"		10	100
2005 123450	5	1/2"x3/4"		10	100
2005 123460	6	1/2"x3/4"		10	100
2005 123470	7	1/2"x3/4"		10	100
2005 123480	8	1/2"x3/4"		10	100
2005 123400	10	1/2"x3/4"		10	100
2005 343410	1	3/4"x3/4"		10	100
2005 343415	1,5	3/4"x3/4"		10	100
2005 343420	2	3/4"x3/4"		10	100
2005 343425	2,5	3/4"x3/4"		10	100
2005 343430	3	3/4"x3/4"		10	100
2005 343435	3,5	3/4"x3/4"		10	100
2005 343440	4	3/4"x3/4"		10	100
2005 343450	5	3/4"x3/4"		10	100
2005 343460	6	3/4"x3/4"		10	100
2005 343470	7	3/4"x3/4"		10	100
2005 343480	8	3/4"x3/4"		10	100
2005 343400	10	3/4"x3/4"		10	100

Brass safety valve for heating systems and domestic services.
- Set pressure: 3 - 6 - 7 bar
- Inlet: 1/2" male
- Outlet: 1/2" female
- Max. temperature: 115°C

In accordance with 2014/68/UE "PED" class IV and with D.Lgs.15.02.2016 n.26.

ART. 2011

Code	bar	size	€	box	pack
2011 121230	3	1/2"x1/2"		10	100
2011 121260	6	1/2"x1/2"		10	100
2011 121270	7	1/2"x1/2"		10	100

Brass safety valve for heating systems and domestic services.
- Set pressure: 3 - 6 - 7 bar
- Inlet: 1/2" female
- Outlet: 1/2" female
- Max. temperature: 115°C

In accordance with 2014/68/UE "PED" class IV and with D.Lgs.15.02.2016 n.26.

ART. 2012

Code	bar	size	€	box	pack
2012 121230	3	1/2"x1/2"		10	100
2012 121260	6	1/2"x1/2"		10	100
2012 121270	7	1/2"x1/2"		10	100

Brass safety valve for heating systems and domestic services.
- Set pressure: 3 bar
- Inlet: quick connection
- Outlet: 3/4" female
- Max. temperature: 115°C

In accordance with 2014/68/UE "PED" class IV and with D.Lgs.15.02.2016 n.26.

ART. 2007

Code	bar	size	€	box	pack
2007 3430	3	3/4"		10	100

Brass pressure and temperature relief valve for heating systems and domestic services.
- Set pressure 3 - 4 - 6 - 7 - 10 bar
- Inlet: 1/2" - 3/4" male
- Outlet: 1/2" - 3/4" female
- Max. temperature: 115°C
- Discharge temperature: 92 ± 3°C

In accordance with 2014/68/UE "PED" class IV and with D.Lgs.15.02.2016 n.26.

ART. 2008

Code	bar	size	€	box	pack
2008 121230	3	1/2"x1/2"		1	-
2008 121240	4	1/2"x1/2"		1	-
2008 121260	6	1/2"x1/2"		1	-
2008 121270	7	1/2"x1/2"		1	-
2008 121200	10	1/2"x1/2"		1	-
2008 343430	3	3/4"x3/4"		1	-
2008 343440	4	3/4"x3/4"		1	-
2008 343460	6	3/4"x3/4"		1	-
2008 343470	7	3/4"x3/4"		1	-
2008 343400	10	3/4"x3/4"		1	-

Brass safety valve for heating systems and domestic services.
- Set pressure 1 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 7 - 8 bar
- Inlet: 1/2" male
- Outlet: 1/2" female
- Max. temperature: 115°C

In accordance with 2014/68/UE "PED" class IV and with D.Lgs.15.02.2016 n.26.

CE 0425

ART. 2002

Code	bar	size	€	box	pack
2002 121210	1	1/2"x1/2"		10	100
2002 121215	1,5	1/2"x1/2"		10	100
2002 121220	2	1/2"x1/2"		10	100
2002 121225	2,5	1/2"x1/2"		10	100
2002 121230	3	1/2"x1/2"		10	100
2002 121235	3,5	1/2"x1/2"		10	100
2002 121240	4	1/2"x1/2"		10	100
2002 121250	5	1/2"x1/2"		10	100
2002 121260	6	1/2"x1/2"		10	100
2002 121270	7	1/2"x1/2"		10	100
2002 121280	8	1/2"x1/2"		10	100

Brass safety valve for heating systems and domestic services.
- Set pressure 2,5 - 3 - 4 - 6 - 7 - 8 bar
- Inlet: 1/2" female
- Outlet: 1/2" female
- Max. temperature: 110°C
- Max. pressure gauge temperature: 90°C
- Pressure gauge scale: 0÷10 bar

ART. 2010

Code	bar	size	€	box	pack
2010 121225	2,5	1/2"x1/2"		1	-
2010 121230	3	1/2"x1/2"		1	-
2010 121240	4	1/2"x1/2"		1	-
2010 121260	6	1/2"x1/2"		1	-
2010 121270	7	1/2"x1/2"		1	-
2010 121280	8	1/2"x1/2"		1	-

Brass safety valve for heating systems and domestic services.
- Set pressure 1 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 7 - 8 bar
- Inlet: 1/2"- 3/4" female
- Outlet: 1/2"- 3/4" female
- Max. temperature: 115°C

In accordance with 2014/68/UE "PED" class IV and with D.Lgs.15.02.2016 n.26.

CE 0425

ART. 2003

Code	bar	size	€	box	pack
2003 121210	1	1/2"x1/2"		10	100
2003 121215	1,5	1/2"x1/2"		10	100
2003 121220	2	1/2"x1/2"		10	100
2003 121225	2,5	1/2"x1/2"		10	100
2003 121230	3	1/2"x1/2"		10	100
2003 121235	3,5	1/2"x1/2"		10	100
2003 121240	4	1/2"x1/2"		10	100
2003 121250	5	1/2"x1/2"		10	100
2003 121260	6	1/2"x1/2"		10	100
2003 121270	7	1/2"x1/2"		10	100
2003 121280	8	1/2"x1/2"		10	100
2003 123410	1	1/2"x3/4"		10	100
2003 123415	1,5	1/2"x3/4"		10	100
2003 123420	2	1/2"x3/4"		10	100
2003 123425	2,5	1/2"x3/4"		10	100
2003 123430	3	1/2"x3/4"		10	100
2003 123435	3,5	1/2"x3/4"		10	100
2003 123440	4	1/2"x3/4"		10	100
2003 123450	5	1/2"x3/4"		10	100
2003 123460	6	1/2"x3/4"		10	100
2003 123470	7	1/2"x3/4"		10	100
2003 123480	8	1/2"x3/4"		10	100

Balancing valves combine a double regulating valve with a "fixed orifice" metering station.

Double regulating valve

"Double regulation" makes it possible to regulate and measure the fluid flow through the valve.

Art. 2129

"Fixed orifice" metering

"Fixed orifice" provides an accurate means for measuring flow capacity.

The valve is designed to regulate the flow capacity in a water-based heating or cooling system.
A balancing circuit ensures good performance from the terminal units in the system in line with the project design, thus maintaining uniform temperature conditions in the building.
Correct balancing permits optimization and reduction of energy consumption, avoiding losses from incorrect fluid distribution and limiting the velocity of the fluid medium, which could cause noise disturbance.
Use of a balancing valve makes it possible to select smaller pumps and to ensure they operate at higher efficiency - reducing electricity consumption and the risk of overheating.

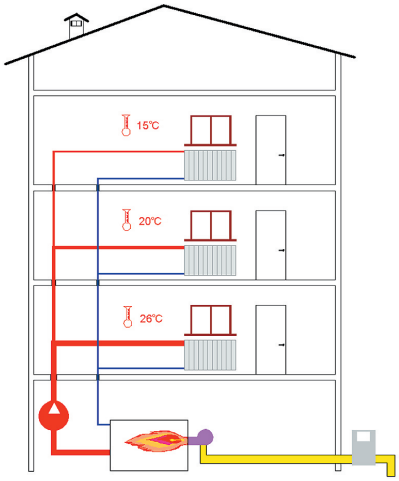
Balancing valves can be used in a range of application:

- To regulate the capacity of the risers, or single terminals in an air-conditioning, or heating system.

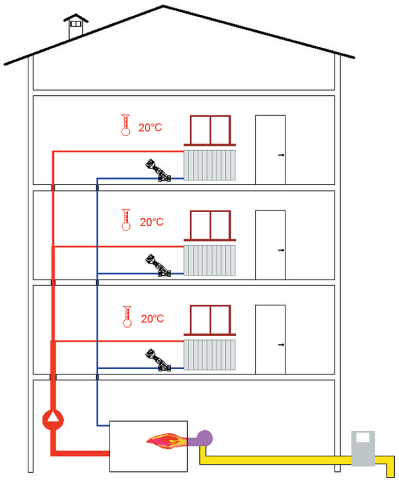
- To balance the circuits equipped with 3-way valves.

- To balance the water circuits of heating or cooling batteries, or of evaporating towers.

- To balance the water flow in the sanitation system.



Unbalanced system



Balanced system

Using balancing valves in a cooling or heating system ensures that both flow volume and temperature distribution are uniform, thus reducing consumption.

Art. 2130

- Dimensions: sizes from 1/2" to 2".
- Body material: CR (DZR) brass.
- Shaped shutter complete with EPDM closing gasket.
- Micrometric regulating valve with anti-tampering "memory" device.
- Graduated scale with reading to 360°.

Balancing valve and flow measurement valve.

- Body: CR (DZR) brass
- Shaped shutter complete with EPDM closing gasket
- Micrometric regulating valve
- Anti-tampering "memory" device
- Graduated scale with reading to 360°

ART. 2130

Code	size	€	box	pack
2130 12	1/2"		1	-
2130 34	3/4"		1	-
2130 1	1"		1	-
2130 114	1"1/4		1	-
2130 112	1"1/2		1	-
2130 2	2"		1	-

Balancing valve with flow measurement device and plugs.

- Body: CR (DZR) brass
- Shaped shutter complete with EPDM closing gasket
- Micrometric regulating valve
- Anti-tampering "memory" device
- Graduated scale with reading to 360°

ART. 2129

Code	size	€	box	pack
2129 12	1/2"		1	-
2129 34	3/4"		1	-
2129 1	1"		1	-
2129 114	1"1/4		1	-
2129 112	1"1/2		1	-
2129 2	2"		1	-

Pressure plugs, quick insertion.

ART. 2140

Code	size	€	box	pack
2140	1/4"		1	-

Measuring needle for pressure plugs.

ART. 2145

Code	€	box	pack
2145		1	-

Electronic measurer of differential pressure and flow capacity for system balancing.

Range:

- 0,1 kPa÷250 kPa
- 0÷95°C

ART. 2125

Code	€	box	pack
2125		1	-

Pre-formed anti-condensation insulation for balancing valves.

ART. 2150

Code	size	€	box	pack
2150 12	1/2"		1	-
2150 34	3/4"		1	-
2150 1	1"		1	-
2150 114	1"1/4		1	-
2150 112	1"1/2		1	-
2150 2	2"		1	-

PICV - Pressure independent control valve.

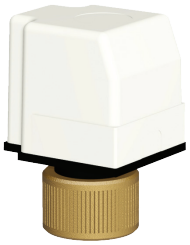
- Body in CR (DZR) brass
- For heating, cooling and domestic systems
- Automatic flow balancing in conditions of variable pressure in the system
- Modulation of the flow along the entire stroke of actuator (art.2138 180)
- Nominal pressure: 25bar
- Maximum differential pressure: 4bar
- Maximum flow temperature: 120°C
- Minimum working temperature: -10°C
- Compatible fluids: water and glycol
- Nr. 2 connections of pressure plugs Art. 2140

ART. 2136

Code	size	flow rate [l/h]	€	box	pack
2136 12	1/2"	86÷347		1	-
2136 34	3/4"	96÷483		1	-
2136 1	1"	150÷900		1	-
2136 114	1"1/4	272÷1610		1	-

Thermo-electric actuator for valves, Art.2136.

- Feed voltage: 230V AC
- Control: on/off, normally closed
- Protection level: IP54
- Opening time: 180s
- Cable length:1m
- Ring thread: M30x1.5
- Stroke: 4mm

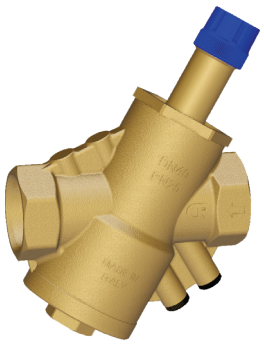


ART. 2138

Code	€	box	pack
2138 180		1	-

PICV - Pressure independent control valve.

- Body in CR (DZR) brass
- For heating, cooling and domestic systems
- Automatic flow balancing in conditions of variable pressure in the system
- Modulation of the flow along the entire stroke of actuator (art.2139 150)
- Nominal pressure: 25bar
- Maximum differential pressure: 4bar
- Maximum flow temperature: 120°C
- Minimum working temperature: -10°C
- Compatible fluids: water and glycol
- Nr. 2 connections for pressure plugs, Art. 2140

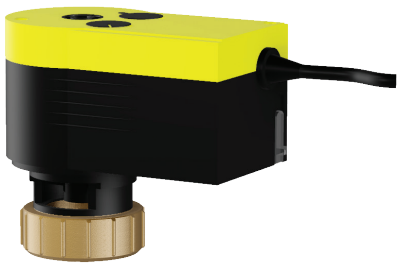


ART. 2137

Code	size	flow rate [l/h]	€	box	pack
2137 112	1"1/2	2020÷7105		1	-
2137 2	2"	2204÷8586		1	-

Electric actuator for valves, Art.2137.

- Feed voltage: 230V AC
- Control: 3-point
- Protection level: IP54
- Opening time: 120s
- Ring thread: M30x1.5



ART. 2139

Code	€	box	pack
2139 120		1	-

The valves **Arts. 2136 and 2137**, also indicated with the acronym **PICV** (**P**ressure **I**ndependent **C**ontrol **V**alve), are designed for automatic balancing of heating, cooling and sanitary systems, even in conditions of variable pressure.

The Pressure Independent Control Valves enable three separate functions in a system:

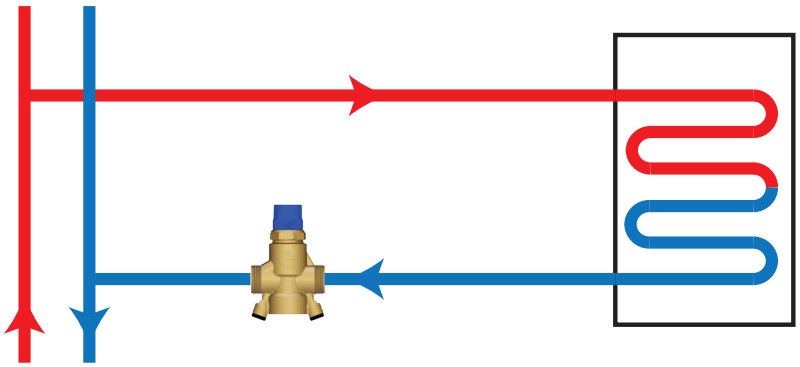
- **Adjustment.** Select the flow rate within the operating range
- **Control.** Maintain a constant flow rate even in cases of variable pressure.
- **Interception.** Interception of the flow by means of actuators

The main features of the control valves are the following:

- Range of differential pressures between a minimum value of 16 kPa and a maximum value of 400 kPa;
- Ability to quickly connect the pair of pressure plugs , Art.**2140;**
- Selector with graduated scale with 21 settings to select the required flow;
- Automatic balancing in case of pressure fluctuation in the pipelines of the system;
- Interception of flow rate by the actuators art.**2138** and **2139**;
- Flexibility of application in case the system is modified after the initial installation;
- Reduced system balancing costs, energy saving and improved comfort.

Applications

The valves Arts.**2136** and **2137** are used for flow rate balancing in systems with hydraulic separators, fan coils, radiant panels, air handling units and systems with chilled beams.
The valve is suitable for cases where it is necessary to keep flow constant to feed a heating or cooling terminal, in order to always maintain the design values, even with varying system load conditions.



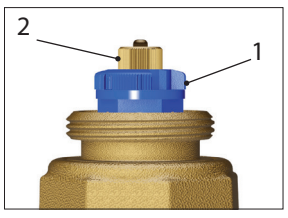
Technical features

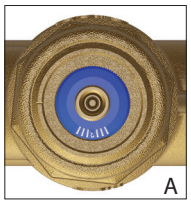
	Art. 2136				Art. 2137	
Sizeura	1/2"	3/4"	1"	1"1/4	1"1/2	2"
Flow rate [l/h]	86÷347	96÷483	150÷900	272÷1610	2020÷7105	2204÷8586
ΔP minimum [kPa]	16,5	19,5	26	37	26	32
Kv [m³/h]	0,86	1,05	1,77	2,65	13,94	15,18

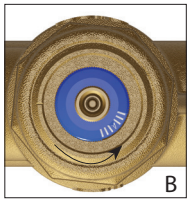
Kv = flow rate in m3 / h at pressure drop of 1 bar

Functioning

By turning the adjusting nut (1) you get the design flow value. Then, tighten the memory block (2).
Within the regulation range of Δp the flow rate remains constant, as shown in the graph.



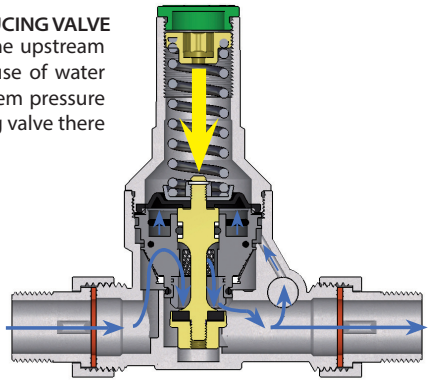




PRESSURE REDUCING VALVES

RELIABILITY, DURABILITY AND EASY MAINTENANCE ARE THE MAIN FEATURES OF THIS PRESSURE REDUCING VALVE

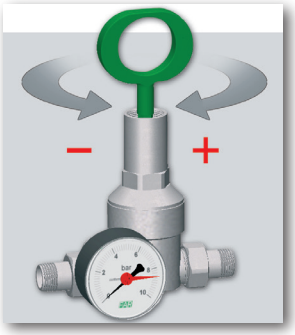
The main purpose of pressure reducing valve is to keep constant pressure in the system, even when the upstream pressure varies widely. Such variations usually occur during the night, or at the weekend, when the use of water decreases. Pressure variation between night and day can range from 3-4 bar. Maintaining constant system pressure avoids leaks and/or malfunction of taps, dishwashers, washing machines etc...Inside the pressure reducing valve there is a cartridge which can be cleaned or replaced thanks to an easy extraction system.



For construction and testing we took as reference UNI EN 1567:2002

- Valves for buildings
- Water and water combined pressure reducing valves
- Requirements and test methods

FAST AND EASY ADJUSTMENT



Turning the screw in a clockwise direction – with the aid of the Allen key supplied – increases the pressure, while unscrewing counter-clockwise will cause it to decrease.

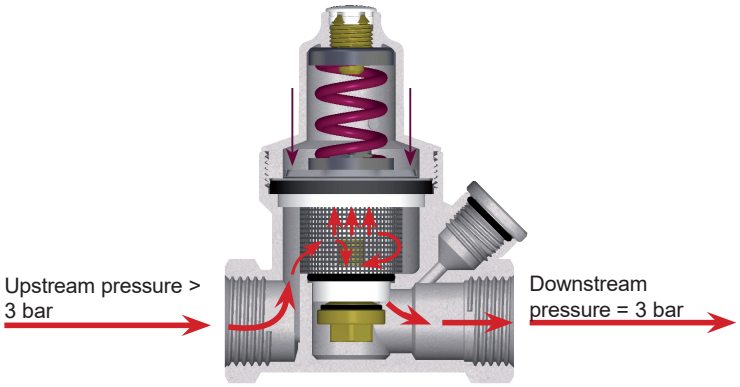
TECHNICAL FEATURES

Reducing valve body:	CB770S (CR) brass
Sealing seat:	AISI 304 stainless steel
Cartridge material:	Hostaform®
O-Rings and gaskets material:	EPDM
Downstream adjustable pressure:	from 1 to 6 bar
Nominal pressure:	16 and 25 bar
Max. working temperature:	75°C

PRESSURE REDUCING VALVE

SMALL SIZE, HIGH RELIABILITY

3 bar pressure reducing valve



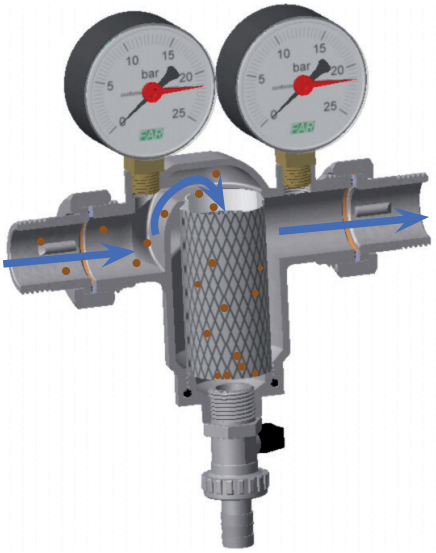
STRAINERS FOR DOMESTIC SERVICES

In order to protect the whole system from any impurities that, over time, might damage components and/or impair system function, it is essential to install a strainer at the system inlet - after the water meter and before the pressure reducing valve. It is a mechanical strainer which is ideal for stopping impurities such as sand, broken bricks or parts of seals which might possibly get into the pipeline during installation.

The body of the FAR strainer for domestic services is fabricated entirely from Dezincification Resistant (DZR) brass. It is a known fact that components made of standard brass can suffer corrosion from stagnant water, or water rich in oxygen and carbon dioxide.

TECHNICAL FEATURES

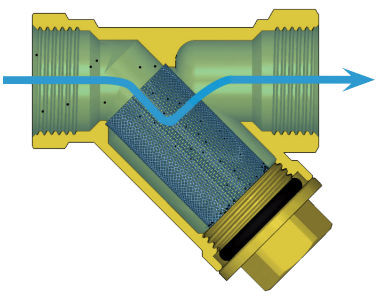
Body material:	CB770S (CR) brass
Mesh filter material:	AISI 304 steel
Filtration level:	100 - 300 - 700 µm
Max. working pressure:	25 bar
Max. working temperature:	95°C



The FAR inclined strainer is a hydraulic component of small dimensions that permits removal of impurities and particles which could pollute the system and damage the components within it. The cartridge is easily removable for simple, fast maintenance and is just as easy to replace.

TECHNICAL FEATURES

Compatible media:	water
Max. water temperature:	95°C
PN:	16 bar
Filtration level:	600 µm
Strainer body:	CW617N brass
Cartridge	AISI 304 steel
Terminal plug:	CW617N brass
O-Ring:	EPDM



Brass pressure reducing valve for domestic services.

- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 16 bar
- Max. working temperature: 30°C
- Compatible fluids: water and air
- Preset: 3 bar

WaterMark

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2864 12	1/2"		1	50
2864 34	3/4"		1	50

Male-female connections

ART. 2864-2865

WITH PRESSURE GAUGE

Code	size	€	box	pack
2865 12	1/2"		1	30
2865 34	3/4"		1	30

Chrome-plated pressure reducing valve for domestic services.

- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 16 bar
- Max. working temperature: 30°C
- Compatible fluids: water and air
- Preset: 3 bar

WaterMark

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2866 12	1/2"		1	50
2866 34	3/4"		1	50

Male-female connections

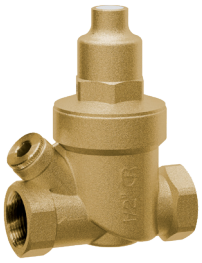
ART. 2866-2867

WITH PRESSURE GAUGE

Code	size	€	box	pack
2867 12	1/2"		1	30
2867 34	3/4"		1	30

Brass pressure reducing valve for domestic services.

- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 16 bar
- Max. working temperature: 30°C
- Compatible fluids: water and air
- Preset: 3 bar



WaterMark

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2868 12	1/2"		1	50
2868 34	3/4"		1	50

Female-female connections

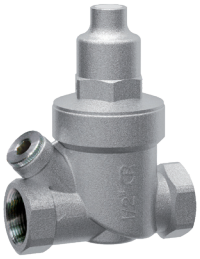
ART. 2868-2869

WITH PRESSURE GAUGE

Code	size	€	box	pack
2869 12	1/2"		1	30
2869 34	3/4"		1	30

Chrome-plated pressure reducing valve for domestic services.

- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 16 bar
- Max. working temperature: 30°C
- Compatible fluids: water and air
- Preset: 3 bar



WaterMark

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2870 12	1/2"		1	50
2870 34	3/4"		1	50

Female-female connections

ART. 2870-2871

WITH PRESSURE GAUGE

Code	size	€	box	pack
2871 12	1/2"		1	30
2871 34	3/4"		1	30

Brass angled pressure reducing valve for domestic services.

- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 16 bar
- Max. working temperature: 30°C
- Compatible fluids: water and air
- Preset: 5 bar
- Pressure gauge connection: 1/4"

WaterMark

ART. 2873

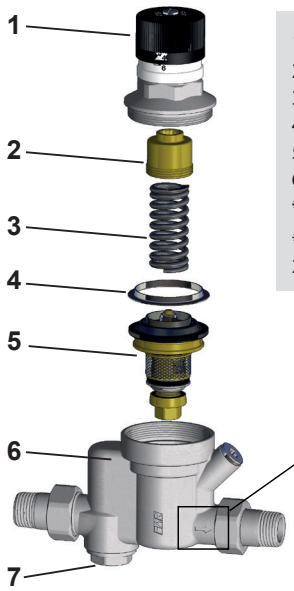
Code	size	€	box	pack
2873 34	3/4"		1	-

DESCRIPTION

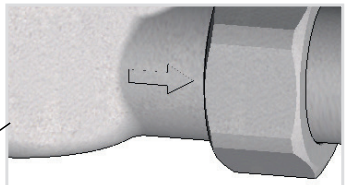
The main purpose of the reducing valve is to maintain constant pressure in the system, even when the upstream pressure varies.
Without a pressure reducing valve, these fluctuations could cause a certain amount of stress and therefore lead to system malfunctions or component breakdowns.
Two versions of pre-adjustable pressure reducing valves are available, one without an internal strainer and another with a 600 µm strainer.
Both versions can be ordered in 1/2" and 3/4" sizes, with or without pressure gauge.

INSTALLATION

Make sure that the system is free of impurities, therefore an accurate cleaning of the pipework is recommended prior to installation.
It is also recommended that a strainer be located upstream of the pressure reducer, even though a small filter is already built into the cartridge.
Articles 2880-2881-2882-2883 are already equipped with a strainer.
For easier access and maintenance, install two liquid shut-off valves during mounting, one upstream and one downstream of the pressure reducing valve.
The direction of flow in indicated by the arrow on the body of the reducing valve.

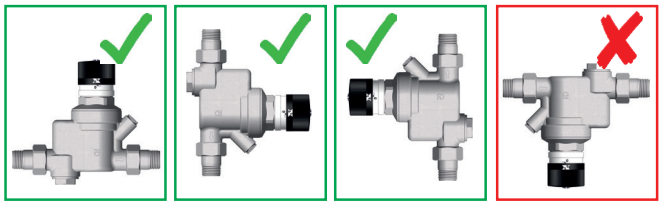


1 ADJUSTMENT HANDLE
2 CAP
3 SPRING
4 FRICTION RING
5 CARTRIDGE
6 PRESSURE REDUCING VALVE BODY
*7 600µm STRAINER
*Present on articles:
2880-2881-2882-2883



DIRECTION THAT THE WATER MUST FLOW INSIDE THE PRESSURE REDUCING VALVE.

DO NOT INSTALL THE REDUCING VALVE UPSIDE DOWN



Calibration: setting of the downstream pressure

To set the downstream pressure, rotate the handle to the desired value, checking the setting through the peephole on the handle.

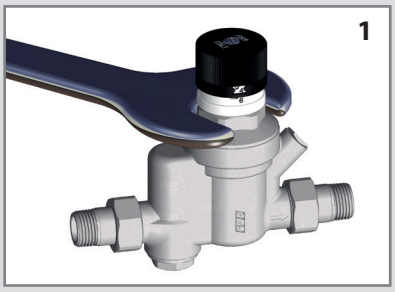
+ Clockwise direction:
increases the downstream pressure

- Counter-clockwise direction:
decreases the downstream pressure

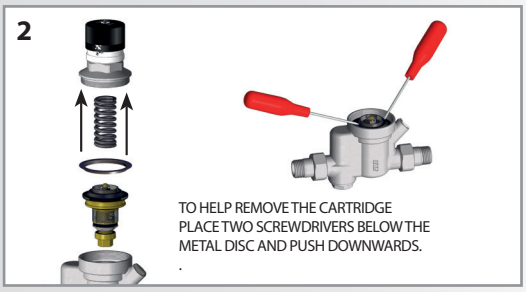
MAINTENANCE

The strainer on the cartridge inside the reducing valve requires periodic cleaning, especially if highly impure water is being used or if no upstream filter is installed. Proceed as follows to clean it:

⚠ **Before beginning the maintenance operation, close the shut-off valves located upstream and downstream of the reducing valve**

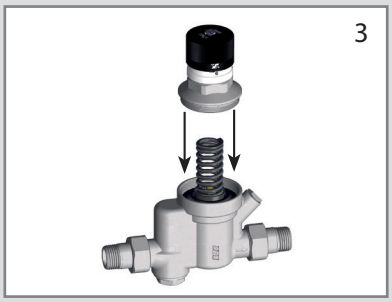


1- Using a 36 mm spanner, loosen the upper part of the reducing valve.



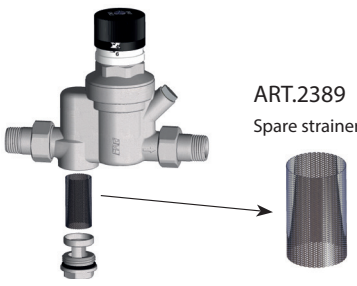
TO HELP REMOVE THE CARTRIDGE PLACE TWO SCREWDRIVERS BELOW THE METAL DISC AND PUSH DOWNWARDS.

2- Remove the spring and the cartridge. Clean the cartridge or replace it if it's damaged.



3- Correctly reassemble the components in the pressure reducing valve and retighten.

Articles 2880-2881-2882-2883 are each equipped with an internal strainer, which requires regular maintenance



ART.2389
Spare strainer

Brass pre-adjustable pressure reducing valve for domestic services.

- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- Compatible fluids: water and air

Male-male connections

ART. 2876-2877

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2876 12	1/2"		1	20
2876 34	3/4"		1	20

WITH PRESSURE GAUGE

Code	size	€	box	pack
2877 12	1/2"		1	20
2877 34	3/4"		1	20

Chrome-plated pre-adjustable pressure reducing valve for domestic services.

- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- Compatible fluids: water and air

Male-male connections

ART. 2878-2879

WITH PRESSURE GAUGE CONNECTION

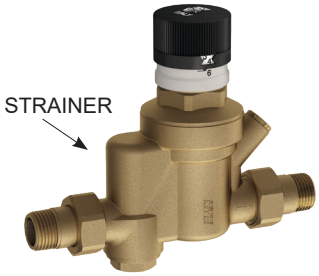
Code	size	€	box	pack
2878 12	1/2"		1	20
2878 34	3/4"		1	20

WITH PRESSURE GAUGE

Code	size	€	box	pack
2879 12	1/2"		1	20
2879 34	3/4"		1	20

Brass pre-adjustable pressure reducing valve for domestic services, **COMPLETE WITH STRAINER.**

- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- Compatible fluids: water and air
- Mesh strainer material: AISI 304 steel
- Filtration level: 600 µm



Male-male connections

ART. 2880-2881

WITH PRESSURE GAUGE CONNECTION

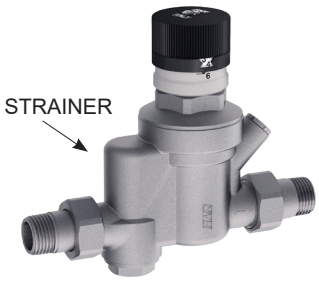
Code	size	€	box	pack
2880 12	1/2"		1	20
2880 34	3/4"		1	20

WITH PRESSURE GAUGE

Code	size	€	box	pack
2881 12	1/2"		1	20
2881 34	3/4"		1	20

Chrome-plated pre-adjustable pressure reducing valve for domestic services, **COMPLETE WITH STRAINER.**

- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- Compatible fluids: water and air
- Mesh strainer material: AISI 304 steel
- Filtration level: 600 µm



Male-male connections

ART. 2882-2883

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2882 12	1/2"		1	20
2882 34	3/4"		1	20

WITH PRESSURE GAUGE

Code	size	€	box	pack
2883 12	1/2"		1	20
2883 34	3/4"		1	20

Spare cartridge for pre-adjustable pressure reducing valves.

- Sizes: 1/2" - 3/4"

ART. 2893

Code	size	€	box
2893 1234	1/2"- 3/4"		1

Spare cartridge for (Art. 2880-2881-2882-2883).

- Filtration mesh: AISI 304 steel

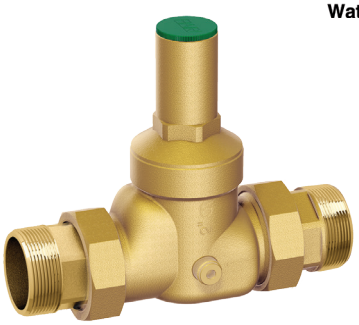
ART. 2389

Code	size	filtration level	€	box
2389 34600	3/4"	600 µm		1

Brass pressure reducing valve for domestic services.

- Sealing seat: stainless steel
- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- O-Ring and gaskets material: EPDM
- Compatible fluids: water and air
- Supplied with regulation key

NB Insulation on page 77



Male-male connections

ART. 2800-2805

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2800 12	1/2″		1	20
2800 34	3/4″		1	20
2800 1	1″		1	12
2800 114	1″1/4		1	12
2800 112	1″1/2		1	5
2800 2	2″		1	5

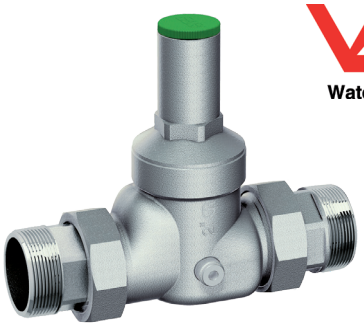
WITH PRESSURE GAUGE

Code	size	€	box	pack
2805 12	1/2″		1	20
2805 34	3/4″		1	20
2805 1	1″		1	12
2805 114	1″1/4		1	12
2805 112	1″1/2		1	5
2805 2	2″		1	5

Chrome-plated pressure reducing valve for domestic services.

- Sealing seat: stainless steel
- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- O-Ring and gaskets material: EPDM
- Compatible fluids: water and air
- Supplied with regulation key

NB Insulation on page 77



Male-male connections

ART. 2810-2815

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2810 12	1/2″		1	20
2810 34	3/4″		1	20
2810 1	1″		1	12
2810 114	1″1/4		1	12
2810 112	1″1/2		1	5
2810 2	2″		1	5

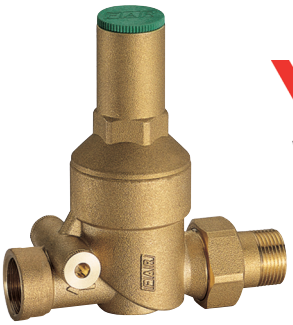
WITH PRESSURE GAUGE

Code	size	€	box	pack
2815 12	1/2″		1	20
2815 34	3/4″		1	20
2815 1	1″		1	12
2815 114	1″1/4		1	12
2815 112	1″1/2		1	5
2815 2	2″		1	5

Brass pressure reducing valve for domestic services.

- Sealing seat: stainless steel
- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- O-Ring and gaskets material: EPDM
- Compatible fluids: water and air
- Supplied with regulation key

NB Insulation on page 77



Male-female connections

ART. 2820-2825

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2820 12	1/2″		1	20
2820 34	3/4″		1	20
2820 1	1″		1	12

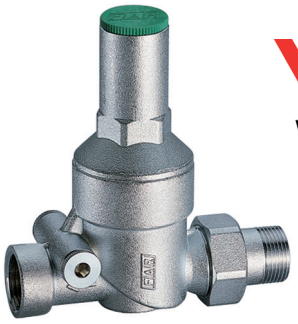
WITH PRESSURE GAUGE

Code	size	€	box	pack
2825 12	1/2″		1	20
2825 34	3/4″		1	20
2825 1	1″		1	12

Chrome-plated pressure reducing valve for domestic services.

- Sealing seat: stainless steel
- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- O-Ring and gaskets material: EPDM
- Compatible fluids: water and air
- Supplied with regulation key

NB Insulation on page 77



WaterMark

Male-female connections

ART. 2830-2835

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2830 12	1/2"		1	20
2830 34	3/4"		1	20
2830 1	1"		1	12

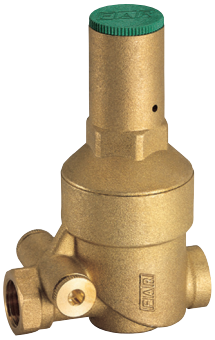
WITH PRESSURE GAUGE

Code	size	€	box	pack
2835 12	1/2"		1	20
2835 34	3/4"		1	20
2835 1	1"		1	12

Brass pressure reducing valve for domestic services.

- Sealing seat: stainless steel
- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- O-Ring and gaskets material: EPDM
- Compatible fluids: water and air
- Supplied with regulation key

NB Insulation on page 77



WaterMark

Female-female connections

ART. 2840-2845

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2840 12	1/2"		1	20
2840 34	3/4"		1	20
2840 1	1"		1	12

WITH PRESSURE GAUGE

Code	size	€	box	pack
2845 12	1/2"		1	20
2845 34	3/4"		1	20
2845 1	1"		1	12

Chrome-plated pressure reducing valve for domestic services.

- Sealing seat: stainless steel
- Body material: CB770S brass
- Adjustable downstream pressure: from 1 to 6 bar
- Nominal pressure: 25 bar
- Max. working temperature: 75°C
- O-Ring and gaskets material: EPDM
- Compatible fluids: water and air
- Supplied with regulation key

NB Insulation on page 77

WaterMark

Female-female connections

ART. 2850-2855

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
2850 12	1/2"		1	20
2850 34	3/4"		1	20
2850 1	1"		1	12

WITH PRESSURE GAUGE

Code	size	€	box	pack
2855 12	1/2"		1	20
2855 34	3/4"		1	20
2855 1	1"		1	12

Spare cartridge for pressure reducing valves.

- Sizes: 1/2" - 3/4" - 1" - 1"1/4

ART. 2890

Code	size	€	box
2890 1234	1/2"- 3/4"		1
2890 1114	1"- 1"1/4		1

Spare cartridge for pressure reducing valves.

- Sizes: 1"1/2 - 2"

ART. 2892

Code	size	€	box
2892 1122	1"1/2 - 2"		1

Spare cartridge for pressure reducing valves, compact version.

- Sizes: 1/2"- 3/4"

ART. 2891

Code	size	€	box
2891 1234	1/2" - 3/4"		1

1 STRAINERS FOR DOMESTIC SERVICES

Brass strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°

Male-male connections

ART. 3930-3931

WITH PRESSURE GAUGE CONNECTIONS

Code	size	€	box	pack
3930 34	3/4"		1	12
3930 1	1"		1	12
3930 114	1"1/4		1	12
3930 112	1"1/2		1	5
3930 2	2"		1	5

WITH PRESSURE GAUGES

Code	size	€	box	pack
3931 34	3/4"		1	12
3931 1	1"		1	12
3931 114	1"1/4		1	12
3931 112	1"1/2		1	5
3931 2	2"		1	5

Chrome-plated strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°

Male-male connections

ART. 3932-3933

WITH PRESSURE GAUGE CONNECTIONS

Code	size	€	box	pack
3932 34	3/4"		1	12
3932 1	1"		1	12
3932 114	1"1/4		1	12
3932 112	1"1/2		1	5
3932 2	2"		1	5

WITH PRESSURE GAUGES

Code	size	€	box	pack
3933 34	3/4"		1	12
3933 1	1"		1	12
3933 114	1"1/4		1	12
3933 112	1"1/2		1	5
3933 2	2"		1	5

Brass strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°

Male-female connections

ART. 3934-3935

WITH PRESSURE GAUGE CONNECTIONS

Code	size	€	box	pack
3934 34	3/4"		1	12
3934 1	1"		1	12
3934 114	1"1/4		1	12
3934 112	1"1/2		1	5
3934 2	2"		1	5

WITH PRESSURE GAUGES

Code	size	€	box	pack
3935 34	3/4"		1	12
3935 1	1"		1	12
3935 114	1"1/4		1	12
3935 112	1"1/2		1	5
3935 2	2"		1	5

Chrome-plated strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°

Male-female connections

ART. 3936-3937

WITH PRESSURE GAUGE CONNECTIONS

Code	size	€	box	pack
3936 34	3/4"		1	12
3936 1	1"		1	12
3936 114	1"1/4		1	12
3936 112	1"1/2		1	5
3936 2	2"		1	5

WITH PRESSURE GAUGES

Code	size	€	box	pack
3937 34	3/4"		1	12
3937 1	1"		1	12
3937 114	1"1/4		1	12
3937 112	1"1/2		1	5
3937 2	2"		1	5

Brass strainer for domestic services.
- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C

Female-female connections

ART. 3938-3939

WITH PRESSURE GAUGE CONNECTIONS

Code	size	€	box	pack
3938 34	3/4"		1	12
3938 1	1"		1	12
3938 114	1"1/4		1	12
3938 112	1"1/2		1	5
3938 2	2"		1	5

WITH PRESSURE GAUGES

Code	size	€	box	pack
3939 34	3/4"		1	12
3939 1	1"		1	12
3939 114	1"1/4		1	12
3939 112	1"1/2		1	5
3939 2	2"		1	5

Chrome-plated strainer for domestic services.
- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C

Female-female connections

ART. 3940-3941

WITH PRESSURE GAUGE CONNECTIONS

Code	size	€	box	pack
3940 34	3/4"		1	12
3940 1	1"		1	12
3940 114	1"1/4		1	12
3940 112	1"1/2		1	5
3940 2	2"		1	5

WITH PRESSURE GAUGES

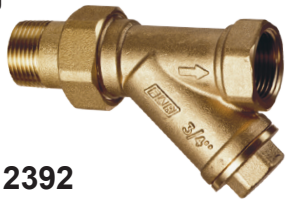
Code	size	€	box	pack
3941 34	3/4"		1	12
3941 1	1"		1	12
3941 114	1"1/4		1	12
3941 112	1"1/2		1	5
3941 2	2"		1	5

Brass strainer for domestic services and heating systems.
- Body material: CW617N brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 600 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C
- Connections: female-female
- Removable cartridge for cleaning

ART. 2390

Code	size	€	box	pack
2390 12	1/2"		1	50
2390 34	3/4"		1	50
2390 1	1"		1	50
2390 114	1"1/4		1	30

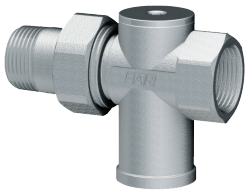
Brass strainer for domestic services and heating systems.
- Body material: CW617N brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 600 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C
- Connections: male-female with union
- Removable cartridge for cleaning



ART. 2392

Code	size	€	box	pack
2392 12	1/2"		1	50
2392 34	3/4"		1	50

FILTROFAR - Chrome-plated strainer with built-in stop cock.
- Body material: CW617N brass
- Connections: male - female
- Nominal pressure:10 bar
- Max. temperature: 95°C
- Sealing O-ring: EPDM
- Filtration level: 300 µm
- Filtration mesh: AISI 304 steel



ART. 3925

Code	size	€	box	pack
3925 34	3/4"		10	60

Chrome-plated strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
3943 12	1/2"		1	20
3943 34	3/4"		1	20
3943 1	1"		1	15

Male-male connections

ART. 3943-3944

WITH PRESSURE GAUGE

Code	size	€	box	pack
3944 12	1/2"		1	20
3944 34	3/4"		1	20
3944 1	1"		1	15

Chrome-plated strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
3945 12	1/2"		1	20
3945 34	3/4"		1	20
3945 1	1"		1	15

Male-female connections

ART. 3945-3946

WITH PRESSURE GAUGE

Code	size	€	box	pack
3946 12	1/2"		1	20
3946 34	3/4"		1	20
3946 1	1"		1	15

Chrome-plated strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
3947 12	1/2"		1	20
3947 34	3/4"		1	20
3947 1	1"		1	15

Female-female connections

ART. 3947-3948

WITH PRESSURE GAUGE

Code	size	€	box	pack
3948 12	1/2"		1	20
3948 34	3/4"		1	20
3948 1	1"		1	15

Chrome-plated strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C
- **Removable magnetic insert**

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
39F3 12	1/2"		1	20
39F3 34	3/4"		1	16
39F3 1	1"		1	16

Male-male connections

ART. 39F3-39F4

WITH PRESSURE GAUGE

Code	size	€	box	pack
39F4 12	1/2"		1	20
39F4 34	3/4"		1	16
39F4 1	1"		1	16

Chrome-plated strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C
- **Removable magnetic insert**

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
39F5 12	1/2"		1	20
39F5 34	3/4"		1	16
39F5 1	1"		1	16

Male-female connections

ART. 39F5-39F6

WITH PRESSURE GAUGE

Code	size	€	box	pack
39F6 12	1/2"		1	20
39F6 34	3/4"		1	16
39F6 1	1"		1	16

Chrome-plated strainer for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C
- **Removable magnetic insert**

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
39F7 12	1/2"		1	20
39F7 34	3/4"		1	16
39F7 1	1"		1	16

Female-female connections

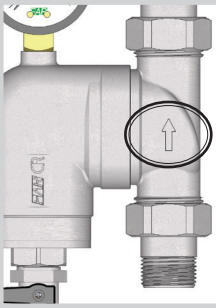
ART. 39F7-39F8

WITH PRESSURE GAUGE

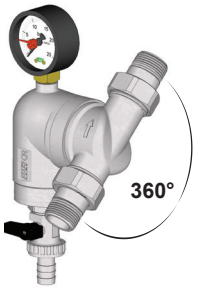
Code	size	€	box	pack
39F8 12	1/2"		1	20
39F8 34	3/4"		1	16
39F8 1	1"		1	16

SWIVELING STRAINERS

The FAR swiveling strainers guarantee an accurate water filtering, thus preserving the functioning of installed components.
The input and output connections can rotate to adjust the strainer position according to the plant requirements

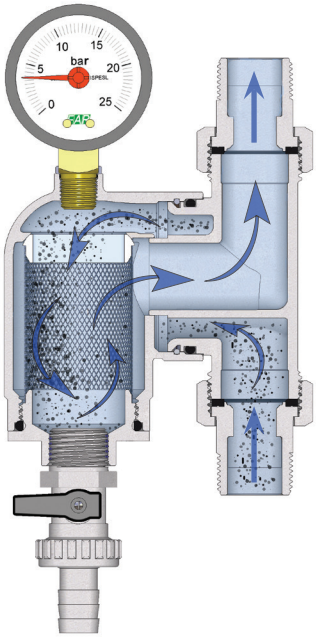


The arrow printed on strainer body allows to recognize the input and the output.

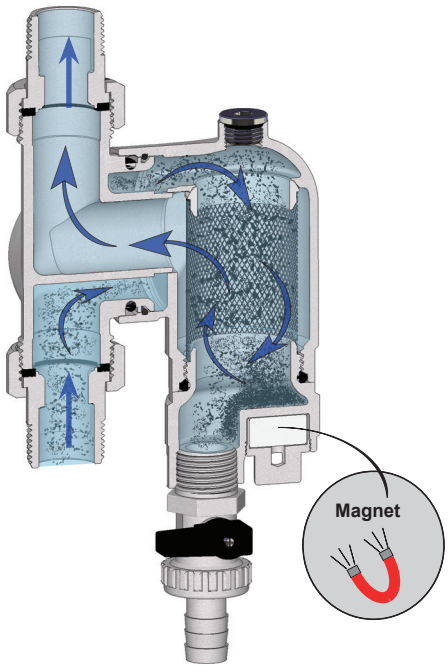


The rotation of the connections allows the strainer to be positioned on both horizontal and vertical pipes.

The incoming water follows a guided path entering the filtering net from above and then moves in a radial direction, getting rid of impurities. The particles thus stick to the net or fall down, accumulating near the drain valve.



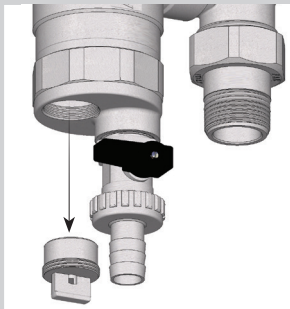
The strainers equipped with magnetic inserts are ideal for systems with a high concentration of iron particles, deposits or debris caused by corrosion.

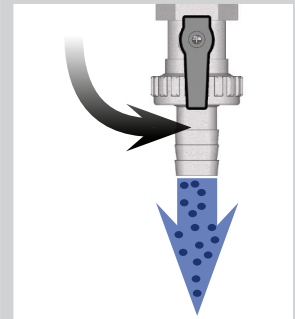


TECHNICAL FEATURES:

- Body: CB770S (CR) brass resistant to dezincification
- Lower cock: CW617N brass
- Filtering cartridge : AISI304 steel
- O-Ring: EPDM
- Max. working temperature: 95°C
- Nominal pressure: 25 bar
- Swiveling connection: 360°
- Available with 3 filtration degrees: 100 µm - 300 µm - 700 µm
- Connections: M-M, F-M and F-F
- Can be ordered in the version with or without pressure gauge

Ordinary maintenance can be carried out simply by unscrewing the magnetic insert holder and opening the drain cock to discharge the accumulated particles.





Chrome-plated strainer with swiveling connections for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
39A3 12	1/2"		1	20
39A3 34	3/4"		1	20
39A3 1	1"		1	10

Male-male connections

ART. 39A3-39A4

WITH PRESSURE GAUGE

Code	size	€	box	pack
39A4 12	1/2"		1	20
39A4 34	3/4"		1	20
39A4 1	1"		1	10

Chrome-plated strainer with swiveling connections for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
39A5 12	1/2"		1	20
39A5 34	3/4"		1	20
39A5 1	1"		1	10

Male-female connections

ART. 39A5-39A6

WITH PRESSURE GAUGE

Code	size	€	box	pack
39A6 12	1/2"		1	20
39A6 34	3/4"		1	20
39A6 1	1"		1	10

Chrome-plated strainer with swiveling connections for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
39A7 12	1/2"		1	20
39A7 34	3/4"		1	20
39A7 1	1"		1	10

Female-female connections

ART. 39A7-39A8

WITH PRESSURE GAUGE

Code	size	€	box	pack
39A8 12	1/2"		1	20
39A8 34	3/4"		1	20
39A8 1	1"		1	10

Chrome-plated strainer with swiveling connections for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C
- **Removable magnetic insert**

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
39M3 12	1/2″		1	16
39M3 34	3/4″		1	16
39M3 1	1″		1	10

Male-male connections

ART. 39M3-39M4

WITH PRESSURE GAUGE

Code	size	€	box	pack
39M4 12	1/2″		1	16
39M4 34	3/4″		1	16
39M4 1	1″		1	10

Chrome-plated strainer with swiveling connections for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C
- **Removable magnetic insert**

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
39M5 12	1/2″		1	16
39M5 34	3/4″		1	16
39M5 1	1″		1	10

Male-female connections

ART. 39M5-39M6

WITH PRESSURE GAUGE

Code	size	€	box	pack
39M6 12	1/2″		1	16
39M6 34	3/4″		1	16
39M6 1	1″		1	10

Chrome-plated strainer with swiveling connections for domestic services.

- Body material: CB770S brass
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm
- Nominal pressure: 25 bar
- Max. working temperature: 95°C
- **Removable magnetic insert**

NB Insulation on page 77

WITH PRESSURE GAUGE CONNECTION

Code	size	€	box	pack
39M7 12	1/2″		1	16
39M7 34	3/4″		1	16
39M7 1	1"		1	10

Female-female connections

ART. 39M7-39M8

WITH PRESSURE GAUGE

Code	size	€	box	pack
39M8 12	1/2″		1	16
39M8 34	3/4″		1	16
39M8 1	1″		1	10

Anti-condensate protection shell made of expanded polyethylene for pressure reducing valves.
(ART. 2800-2805-2810-2815-2820-2825)
(ART. 2830-2835-2840-2845-2850-2855)

ART. 2801

Code	size	€	box
2801 1234	1/2"-3/4"		1
2801 1114	1"-1"1/4		1
2801 112	1"1/2		1
2801 2	2"		1

Anti-condensate protection shell made of expanded polyethylene for strainers.
(ART. 3943-3944-3945-3946-3947-3948)
(ART. 39F3-39F4-39F5-39F6-39F7-39F8)

ART. 39F1

Code	size	€	box
39F1 12	1/2"		1
39F1 34	3/4"		1
39F1 1	1"		1

Anti-condensate protection shell made of expanded polyethylene for strainers with swiveling connections.
(ART. 39A3-39A4-39A5-39A6-39A7-39A8)
(ART. 39M3-39M4-39M5-39M6-39M7-39M8)

ART. 39A1

Code	size	€	box
39A1 1234	1/2"-3/4"		1
39A1 1	1"		1

Spare cartridge for strainer (ART. 2390-2392-2880-2881-2882-2883).
- Filtration mesh: AISI 304 steel
- Filtration level: 600 µm

ART. 2389

Code	size	filtration level	€	box
2389 12600	1/2"	600 µm		1
2389 34600	3/4"	600 µm		1
2389 1600	1"	600 µm		1
2389 114600	1"1/4	600 µm		1

1/2" spare cartridge for strainer for domestic services and heating systems.
(Art. 3943-3944-3945-3946-3947-3948)
(Art. 39F3-39F4-39F5-39F6-39F7-39F8)
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm

NB. They are also available to special order with 100 µm and 700 µm filtration levels.

ART. 3949

Code	size	filtration level	€	box
3949 12300	1/2"	300 µm		1

Spare cartridge for strainer for domestic services, sizes: 3/4"-1"-1"1/4-1"1/2-2".
(Art. 3930-3931-3932-3933-3934-3935-3936-3937-3938-3939-3940-3941)
(Art. 3943-3944-3945-3946-3947-3948-39F3-39F4-39F5-39F6-39F7-39F8)

Spare cartridge Art. **3942 34300** for domestic services, sizes: 1/2"-3/4"
(Art. 39A3-39A4-39A5-39A6-39A7-39A8-39M3-39M4-39M5-39M6-39M7-39M8)
- Mesh strainer material: AISI 304 steel
- Filtration level: 300 µm

NB. They are also available to special order with 100 µm and 700 µm filtration levels

ART. 3942

Code	size	filtration level	€	box
3942 34300	3/4"	300 µm		1
3942 1300	1"	300 µm		1
3942 114300	1"1/4	300 µm		1
3942 112300	1"1/2	300 µm		1
3942 2300	2"	300 µm		1

1 PRE-ASSEMBLED CONTROL UNIT

The SMALL actuator can be installed at the inlet to the domestic services, just after the water meter. It can be activated by a switch, so every time you leave the house, for even a brief period, you can turn off water supplies from the mains. No need to worry ever again about possible damage or a forgotten open tap.

PRE-ASSEMBLED chrome-plated control unit for water main delivery complete with:
- 230 V motorized ball zone valve with manual release
- strainer for domestic services
- pressure reducing valve

WITH PRESSURE GAUGE CONNECTIONS

ART. 3960

Code	size	€	box
3960 34	3/4"		1
3960 1	1"		1

PRE-ASSEMBLED chrome-plated control unit for water main delivery complete with:
- 24 V motorized ball zone valve with manual release
- strainer for domestic services
- pressure reducing valve

WITH PRESSURE GAUGE CONNECTIONS

ART. 3962

Code	size	€	box
3962 34	3/4"		1
3962 1	1"		1

WITH PRESSURE GAUGES

ART. 3961

Code	size	€	box
3961 34	3/4"		1
3961 1	1"		1

WITH PRESSURE GAUGES

ART. 3963

Code	size	€	box
3963 34	3/4"		1
3963 1	1"		1

PRE-ASSEMBLED chrome-plated control unit for water main delivery complete with:
- strainer for domestic systems
- pressure reducing valve

WITH PRESSURE GAUGE CONNECTIONS

ART. 3964

Code	size	€	box
3964 34	3/4"		1
3964 1	1"		1
3964 114	1"1/4		1

WITH PRESSURE GAUGES

ART. 3965

Code	size	€	box
3965 34	3/4"		1
3965 1	1"		1
3965 114	1"1/4		1

Connection unit for domestic services complete with:
- connections for recirculation
- thermostatic mixer with 30÷65° C temperature range
- shut-off ball valves
- non-return valves

• Nominal pressure: 10 bar
• Max. differential pressure: 3bar
• Max. working temperature: 95°C

ART. 3968

Code	size	€	box	pack
3968 34	3/4"		1	1

Connection unit for domestic services complete with:
- suitable for recirculation
- thermostatic mixer with 30÷65° C temperature range
- shut-off ball valves
- non-return valves

• Nominal pressure: 10 bar
• Max. differential pressure: 3bar
• Max. working temperature: 95°C

ART. 3969

Code	size	€	box	pack
3969 34	3/4"		1	1

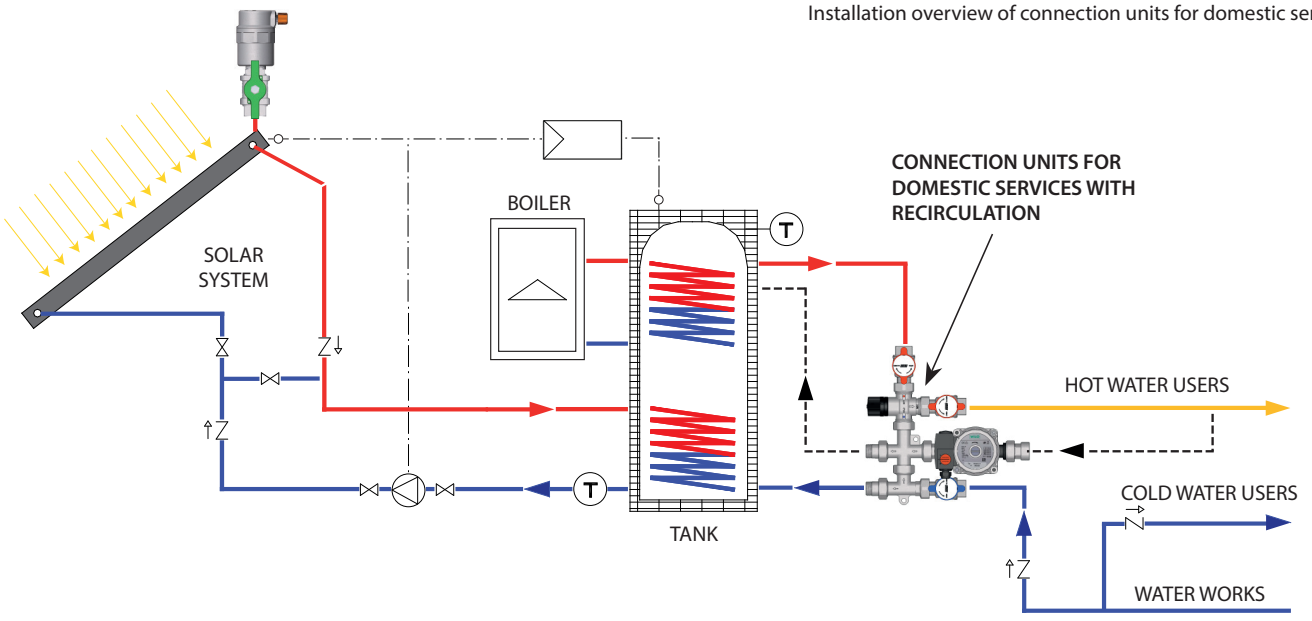
Connection unit for domestic services complete with:
- connections for recirculation
- 3-speed pump with 6m design head
- thermostatic mixer with 30÷65° C temperature range
- shut-off ball valves
- non-return valves

• Nominal pressure: 10 bar
• Max. differential pressure: 3bar
• Max. working temperature: 95°C

ART. 3967

Code	size	€	box	pack
3967 34	3/4"		1	1

Installation overview of connection units for domestic services



1 WATER HAMMER ARRESTER

Water hammer arrester for domestic services.

- Body made of CW617N brass
- Connection: 1/2" - 3/4" - 1" male
- EPDM sealing gasket
- Max. pressure: 50 bar
- Nominal pressure: 10 bar
- Max. working temperature:90°C

ART. 2895

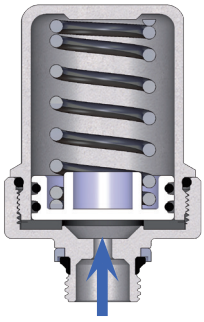
	Code	size	€	box	pack
	2895 12	1/2"		1	50
new	2895 34	3/4"		1	50
new	2895 1	1		1	50

Water hammer arrester for installation under wash-basin or on the washing machine connection.

- Body made of CW617N brass
- Male connection and swiveling nut
- Sealing gasket
- Max. pressure: 50 bar
- Nominal pressure: 10 bar
- Max. working temperature: 90°C

ART. 2896

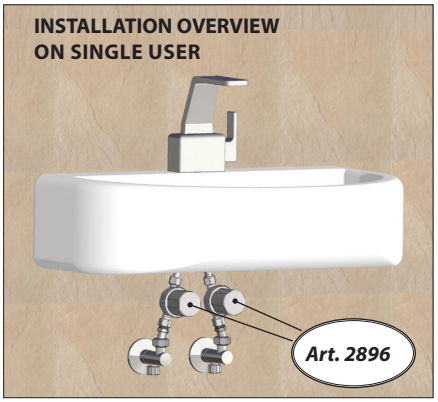
Code	size	€	box	pack
2896 38	3/8"		1	50
2896 34	3/4"		1	50



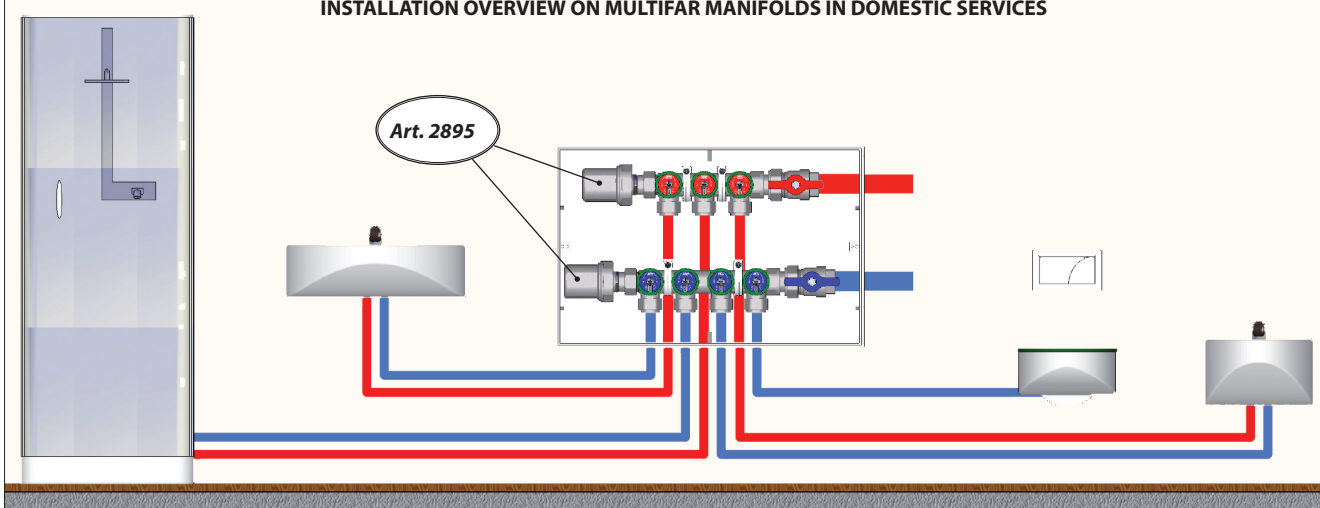
The phenomenon of water hammer occurs when a device (such as a tap or a mixer, etc.) is suddenly opened or closed, creating harmful overpressures inside the system

The FAR water hammer arrester incorporates a steel spring connected to a plastic disc with double O-ring seal, which opposes the fluid force and absorbs much of the excess pressure. As a result, the overpressures are mitigated so that the correct operation of the components in the system is maintained.

It is recommended that the water hammer arrester is installed directly on each circuit (e.g. ball valves, domestic services, electrovalves,etc..), or placed on the distribution manifold.



INSTALLATION OVERVIEW ON MULTIFAR MANIFOLDS IN DOMESTIC SERVICES

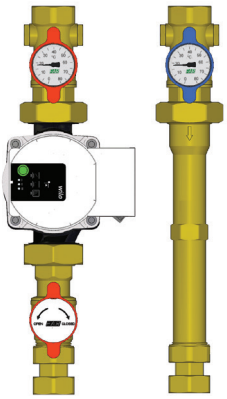


TEMPERATURE GAUGE HOLDER BALL BALVE

FAR temperature gauge holder ball valves for heating systems and domestic hot water services are available in brass or chrome-plated versions, with red or blue handle, according to the application. A temperature gauge can be installed inside the handle.
The wide range of available connections allows this valve to be installed with most types of pipework.

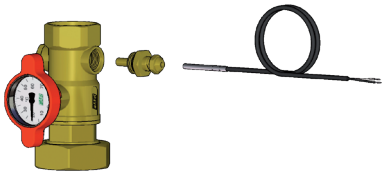
Installation

The valves are suitable for installation on heating or domestic hot water systems. Their function is to isolate the circuits, while also displaying the temperature of the circulating fluid in the system.

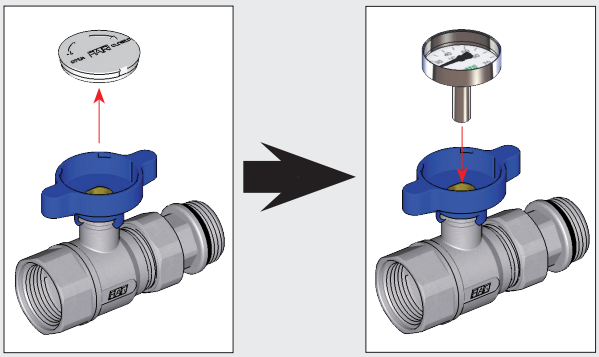


1"1/2 valves are useful for connection to circulators.

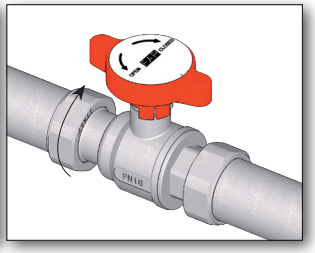
Where ball valves with a lateral connection are used on system equipped with a mixing unit, it is possible to use a delivery temperature probe complete with seat in order to effect a fixed point or climatic regulation.



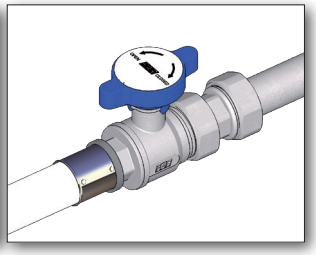
To install the temperature gauge, firstly remove the white cover from the centre of the valve handle and insert the gauge.



Valves with double swivel nut allow the handle to be fixed to suit your needs. Once you have chosen the position, simply screw the cap to the pipe.



Temperature gauge holder ball valves are also available with press-fit connection for multilayer pipe.



TEMPERATURE GAUGE HOLDER ball valve.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- Designed for installation of temperature gauge, art. 2653
- Nominal pressure: 16 bar
- Max. working temperature: 95°C

ART. 3051

ART. 3052

Code	size	handle	€	box	pack
3051 34B	3/4"F x 3/4"M	blue		5	50
3051 34R	3/4"F x 3/4"M	red		5	50
3051 1B	1"F x 1"M	blue		5	50
3051 1R	1"F x 1"M	red		5	50
3052 34B	3/4"F x 3/4"M	blue		5	50
3052 34R	3/4"F x 3/4"M	red		5	50
3052 1B	1"F x 1"M	blue		5	50
3052 1R	1"F x 1"M	red		5	50

TEMPERATURE GAUGE HOLDER ball valve, complete with swiveling nut.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- Designed for installation of temperature gauge, art. 2653
- Nominal pressure: 16 bar
- Max. working temperature: 95°C

ART. 3053

ART. 3054

Code	size	Ø nut	handle	€	box	pack
3053 134B	3/4"	1"	blue		5	50
3053 134R	3/4"	1"	red		5	50
3053 1B	1"	1"	blue		5	50
3053 1R	1"	1"	red		5	50
3054 134B	3/4"	1"	blue		5	50
3054 134R	3/4"	1"	red		5	50
3054 1B	1"	1"	blue		5	50
3054 1R	1"	1"	red		5	50

1 TEMPERATURE GAUGE HOLDER BALL VALVES

TEMPERATURE GAUGE HOLDER ball valve, complete with double swiveling nut.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- Designed for installation of temperature gauge, art. 2653
- Nominal pressure: 16 bar
- Max. working temperature: 95°C

ART. 3055

ART. 3056

Code	size	handle	€	box	pack
3055 34B	3/4"F x 3/4"F	blue		5	50
3055 34R	3/4"F x 3/4"F	red		5	50
3055 134B	1"F x 3/4"F	blue		5	50
3055 134R	1"F x 3/4"F	red		5	50
3055 1B	1"F x 1"F	blue		5	50
3055 1R	1"F x 1"F	red		5	50
3055 1121B	1"F x 1"1/2F	blue		5	50
3055 1121R	1"F x 1"1/2F	red		5	50
3056 34B	3/4"F x 3/4"F	blue		5	50
3056 34R	3/4"F x 3/4"F	red		5	50
3056 134B	1"F x 3/4"F	blue		5	50
3056 134R	1"F x 3/4"F	red		5	50
3056 1B	1"F x 1"F	blue		5	50
3056 1R	1"F x 1"F	red		5	50

TEMPERATURE GAUGE HOLDER ball valve, complete with pump connection.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- Designed for installation of temperature gauge, art. 2653
- Nominal pressure: 16 bar
- Max. working temperature: 95°C

ART. 3059

ART. 3060

Code	size	handle	€	box	pack
3059 1B	1"F x 1"1/2 F	blue		5	50
3059 1R	1"F x 1"1/2 F	red		5	50
3060 1B	1"F x 1"1/2 F	blue		5	50
3060 1R	1"F x 1"1/2 F	red		5	50

TEMPERATURE GAUGE HOLDER ball valve.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- PRESSFAR connection for multilayer pipe
- Designed for installation of temperature gauge, art. 2653
- Nominal pressure: 16 bar
- Max. working temperature: 95°C

ART. 5942

ART. 5943

Code	size	handle	Ø pipe	€	box	pack
59422601	3/4"	blue	26x3		4	40
59422602	3/4"	red	26x3		4	40
59422603	1"	blue	26x3		4	40
59422604	1"	red	26x3		4	40
59423201	3/4"	blue	32x3		4	40
59423202	3/4"	red	32x3		4	40
59423203	1"	blue	32x3		4	40
59423204	1"	red	32x3		4	40
59432601	3/4"	blue	26x3		4	40
59432602	3/4"	red	26x3		4	40
59432603	1"	blue	26x3		4	40
59432604	1"	red	26x3		4	40
59433201	3/4"	blue	32x3		4	40
59433202	3/4"	red	32x3		4	40
59433203	1"	blue	32x3		4	40
59433204	1"	red	32x3		4	40

TEMPERATURE GAUGE HOLDER ball valve, complete with pump connection.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- PRESSFAR connection for multilayer pipe
- Designed for installation of temperature gauge, art. 2653
- Nominal pressure: 16 bar
- Max. working temperature: 95°C

ART. 5946

ART. 5947

Code	size	handle	Ø pipe	€	box	pack
59462601	1"1/2	blue	26x3		5	50
59462602	1"1/2	red	26x3		5	50
59463201	1"1/2	blue	32x3		5	50
59463202	1"1/2	red	32x3		5	50
59472601	1"1/2	blue	26x3		5	50
59472602	1"1/2	red	26x3		5	50
59473201	1"1/2	blue	32x3		5	50
59473202	1"1/2	red	32x3		5	50

TEMPERATURE GAUGE HOLDER ball valve, complete with swiveling nut.

- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- PRESSFAR connection for multilayer pipe
- Designed for installation of temperature gauge, art. 2653
- Nominal pressure: 16 bar
- Max. working temperature: 95°C

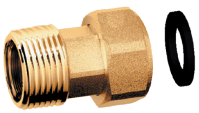
ART. 5944

ART. 5945

	Code	size	handle	Ø pipe	€	box	pack
new	59442001	1"	blue	20x2		5	50
new	59442002	1"	red	20x2		5	50
new	59442003	3/4"	blue	20x2		5	50
new	59442004	3/4"	red	20x2		5	50
	59442601	1"	blue	26x3		5	50
	59442602	1"	red	26x3		5	50
new	59442603	3/4"	blue	26x3		5	50
new	59442604	3/4"	red	26x3		5	50
	59443201	1"	blue	32x3		5	50
	59443202	1"	red	32x3		5	50
	59444001	1"	blue	40x3,5		5	50
	59444002	1"	red	40x3,5		5	50
new	59452001	1"	blue	20x2		5	50
new	59452002	1"	red	20x2		5	50
new	59452003	3/4"	blue	20x2		5	50
new	59452004	3/4"	red	20x2		5	50
	59452601	1"	blue	26x3		5	50
	59452602	1"	red	26x3		5	50
new	59452603	3/4"	blue	26x3		5	50
new	59452604	3/4"	red	26x3		5	50
	59453201	1"	blue	32x3		5	50
	59453202	1"	red	32x3		5	50
	59454001	1"	blue	40x3,5		5	50
	59454002	1"	red	40x3,5		5	50

Brass connection fitting with swiveling nut.

- Connections: Male-Female
- Flat faced gasket in EPDM
- CW617N printed brass
- Spare parts for arts. 3051 - 5942



ART. 8313

Code	size	€	box
8313 134	1" x 3/4"		1
8313 1	1" x 1"		1

Chrome-plated connection fitting with swiveling nut.

- Connections: Male-Female
- Flat faced gasket in EPDM
- CW617N printed brass
- Spare parts for arts. 3052 - 5943

ART. 8323

Code	size	€	box
8323 134	1" x 3/4"		1
8323 1	1" x 1"		1

Ø 40 mm bimetallic temperature gauge

- Temperature scale: 0÷80°C - 0÷120°C
- 36 mm sheath

ART. 2653

Code	temperature scale	€	box	pack
2653 80	0-80° C		1	240
2653 120	0-120° C		1	240

1 TEMPERATURE GAUGE HOLDER BALL VALVES

Manual ball valve complete with temperature gauge (art. 2651), chrome-plated version.
- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- PTFE inner seats
- EPDM sealing O-ring
- 3/8" lateral caps can be removed for sensor seating installation
- Temperature gauge scale: 0÷80°C
- Nominal pressure: 16 bar
- Connections: F-F

ART. 3048

Code	size	handle	€	box	pack
3048 1B	1"	blue		1	-
3048 1R	1"	red		1	-

Manual ball valve complete with temperature gauge (art. 2651), chrome-plated version.
- Valve body and ball in CW617N stamped brass
- Chrome-plated ball
- PTFE inner seats
- EPDM sealing O-ring
- 3/8" lateral caps can be removed for sensor seating installation
- Temperature gauge scale: 0÷80°C
- Nominal pressure: 16 bar
- Connections: M-F

ART. 3049

Code	size	handle	€	box	pack
3049 1B	1"	blue		1	-
3049 1R	1"	red		1	-

Manual ball valve complete with temperature gauge (art. 2651), brass version.
- Valve boby and ball in stamped CW617N brass
- Chrome-plated ball
- PTFE inner seats
- 1"1/2 - 2" swiveling nut
- EPDM sealing O-ring
- 3/8" lateral caps can be removed for sensor seating installation
- Temperature gauge scale: 0÷80°C
- Nominal pressure: 16 bar

ART. 3045

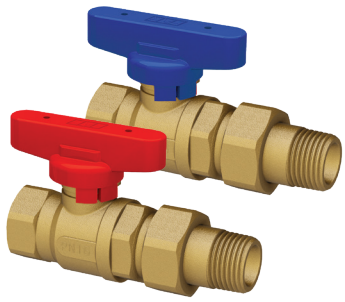
Code	size	handle	€	box	pack
3045 1B	1"x1"1/2	blue		1	-
3045 1R	1"x1"1/2	red		1	-
3045 114B	1"1/4x2"	blue		1	-
3045 114R	1"1/4x2"	red		1	-

Manual ball valve complete with temperature gauge (art. 2651), chrome-plated version.
- Valve body and ball in stamped CW617N brass
- Chrome-plated ball
- PTFE inner seats
- 1"1/2 - 2" swiveling nut
- EPDM sealing O-ring
- 3/8" lateral caps can be removed for sensor seating installation
- Temperature gauge scale: 0÷80°C
- Nominal pressure: 16 bar

ART. 3046

Code	size	handle	€	box	pack
3046 1B	1"x1"1/2	blue		1	-
3046 1R	1"x1"1/2	red		1	-
3046 114B	1"1/4x2"	blue		1	-
3046 114R	1"1/4x2"	red		1	-

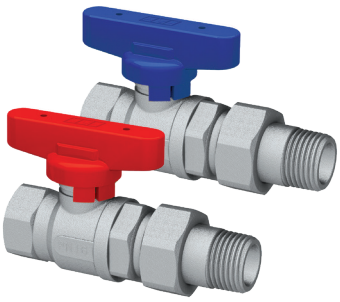
Brass shut-off ball valve complete with union.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Female



ART. 3079

Code	size	handle	€	box	pack
3079 12B	1/2"F x 1/2"M	blue		5	50
3079 12R	1/2"F x 1/2"M	red		5	50
3079 34B	3/4"F x 3/4"M	blue		5	50
3079 34R	3/4"F x 3/4"M	red		5	50

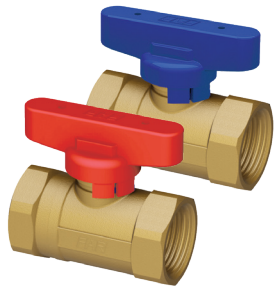
Chrome-plated shut-off ball valve complete with union.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Female



ART. 3079C

Code	size	handle	€	box	pack
3079 12BC	1/2"F x 1/2"M	blue		5	50
3079 12RC	1/2"F x 1/2"M	red		5	50
3079 34BC	3/4"F x 3/4"M	blue		5	50
3079 34RC	3/4"F x 3/4"M	red		5	50

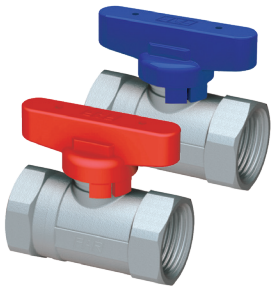
Brass shut-off ball valve.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Female-Female



ART. 3036

Code	size	handle	€	box	pack
3036 12B	1/2"F x 1/2"F	blue		5	50
3036 12R	1/2"F x 1/2"F	red		5	50
3036 34B	3/4"F x 3/4"F	blue		5	50
3036 34R	3/4"F x 3/4"F	red		5	50

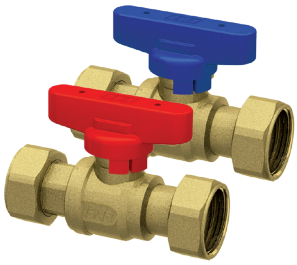
Chrome-plated shut-off ball valve.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Female-Female



ART. 3036C

Code	size	handle	€	box	pack
3036 12BC	1/2"F x 1/2"F	blue		5	50
3036 12RC	1/2"F x 1/2"F	red		5	50
3036 34BC	3/4"F x 3/4"F	blue		5	50
3036 34RC	3/4"F x 3/4"F	red		5	50

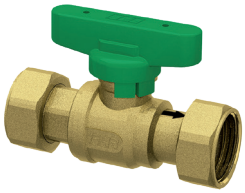
Brass shut-off ball valve complete with swiveling nuts.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Connections: Female-Female

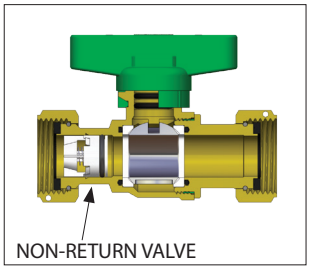


ART. 3037

Code	Ø nuts	handle	€	box	pack
3037 12B	3/4"	blue		5	50
3037 12R	3/4"	red		5	50

Brass shut-off ball valve complete with swiveling nuts.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- **Internal non-return valve**
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Connections: Female-Female

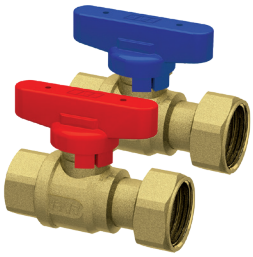




ART. 3037

Code	Ø nuts	handle	€	box	pack
3037 12V	3/4"	green		5	50

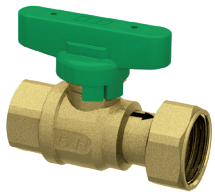
Brass shut-off ball valve complete with swiveling nut.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Connections: Female-Female

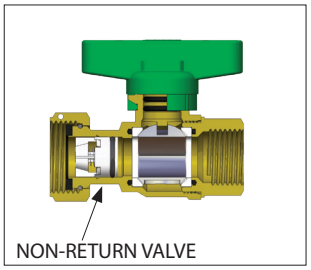


ART. 3047

Code	size	Ø nut	handle	€	box	pack
3047 12B	1/2"	3/4"	blue		5	50
3047 12R	1/2"	3/4"	red		5	50
3047 3434B	3/4"	3/4"	blue		5	50
3047 3434R	3/4"	3/4"	red		5	50
3047 134B	3/4"	1"	blue		5	50
3047 134R	3/4"	1"	red		5	50

Brass shut-off ball valve complete with swiveling nut.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- **Internal non-return valve**
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Connections: Female-Female

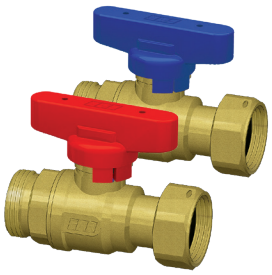




ART. 3047

Code	size	Ø nut	handle	€	box	pack
3047 12V	1/2"	3/4"	green		5	50
3047 134V	3/4"	1"	green		5	50

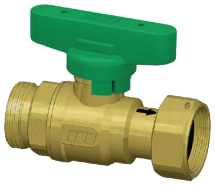
Brass shut-off ball valve complete with swiveling nut.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Connections: Male-Female

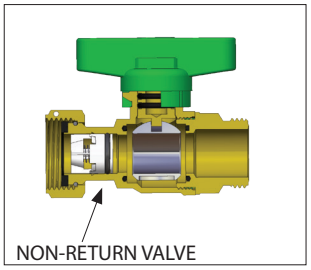


ART. 3034

Code	size	Ø nut	handle	€	box	pack
3034 34B	3/4"	3/4"	blue		5	50
3034 34R	3/4"	3/4"	red		5	50

Brass shut-off ball valve complete with swiveling nut.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- **Internal non-return valve**
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Connections: Male-Female

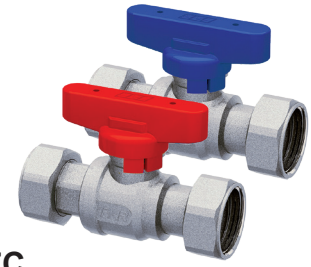




ART. 3034

Code	size	Ø nut	handle	€	box	pack
3034 34V	3/4"	3/4"	green		5	50

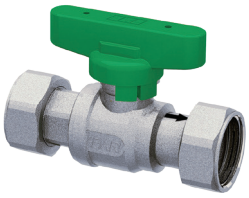
Chrome-plated shut-off ball valve complete with swiveling nuts.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Female-Female

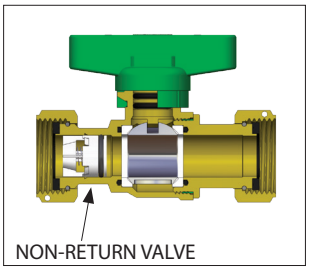


ART. 3037C

Code	Ø nuts	handle	€	box	pack
3037 12BC	3/4"	blue		5	50
3037 12RC	3/4"	red		5	50

Chrome-plated shut-off ball valve complete with swiveling nuts.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- **Internal non-return valve**
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Female-Female

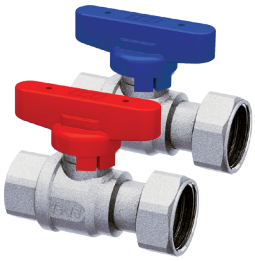




ART. 3037C

Code	Ø nuts	handle	€	box	pack
3037 12VC	3/4"	green		5	50

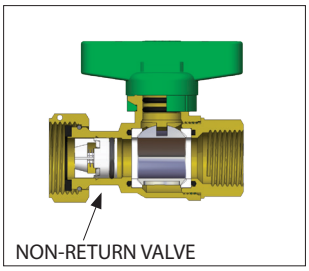
Chrome-plated shut-off ball valve complete with swiveling nut.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Female-Female



ART. 3047C

Code	size	Ø nut	handle	€	box	pack
3047 12BC	1/2"	3/4"	blue		5	50
3047 12RC	1/2"	3/4"	red		5	50
3047 3434BC	3/4"	3/4"	blue		5	50
3047 3434RC	3/4"	3/4"	red		5	50
3047 134BC	3/4"	1"	blue		5	50
3047 134RC	3/4"	1"	red		5	50

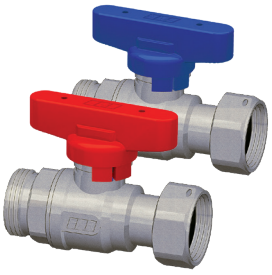
Chrome-plated shut-off ball valve complete with swiveling nut.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- **Internal non-return valve**
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Female-Female



ART. 3047C

Code	size	Ø nut	handle	€	box	pack
3047 12VC	1/2"	3/4"	green		5	50
3047 134VC	3/4"	1"	green		5	50

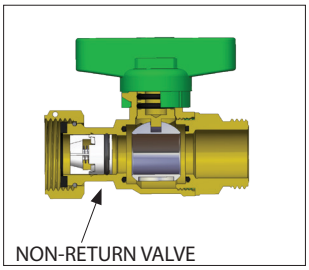
Chrome-plated shut-off ball valve complete with swiveling nut.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Female



ART. 3034C

Code	size	Ø nut	handle	€	box	pack
3034 34BC	3/4"	3/4"	blue		5	50
3034 34RC	3/4"	3/4"	red		5	50

Chrome-plated shut-off ball valve complete with swiveling nut.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- **Internal non-return valve**
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Female



ART. 3034C

Code	size	Ø nut	handle	€	box	pack
3034 34VC	3/4"	3/4"	green		5	50

Brass angled shut-off ball valve.

- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male
- Male connection: eurokonus with flat faced insert

ART. 3096

Code	size	handle	€	box	pack
3096 3412B	3/4"M x 1/2"M	blue		5	50
3096 3412R	3/4"M x 1/2"M	red		5	50

Chrome-plated angled shut-off ball valve.

- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male
- Male connection: eurokonus with flat faced insert

ART. 3096C

Code	size	handle	€	box	pack
3096 3412BC	3/4"M x 1/2"M	blue		5	50
3096 3412RC	3/4"M x 1/2"M	red		5	50

Brass angled shut-off ball valve complete with swiveling nuts.

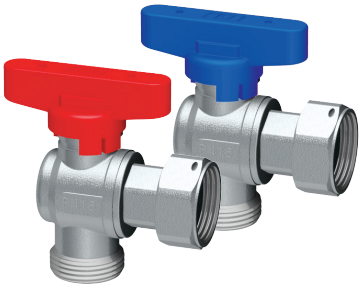
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Female
- Male connection: eurokonus with flat faced insert

ART. 3098

Code	size	Ø nut	handle	€	box	pack
3098 34B	3/4"	3/4"	blue		5	50
3098 34R	3/4"	3/4"	red		5	50

Chrome-plated angled shut-off ball valve complete with swiveling nuts.

- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Female
- Male connection: eurokonus with flat faced insert

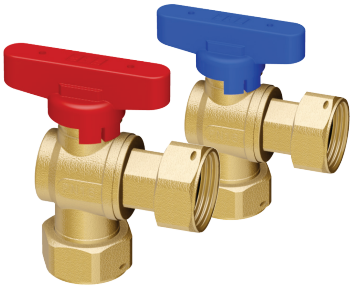


ART. 3098C

Code	size	Ø nut	handle	€	box	pack
3098 34BC	3/4"	3/4"	blue		5	50
3098 34RC	3/4"	3/4"	red		5	50

Brass angled shut-off ball valve complete with double swiveling nut.

- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Female-Female

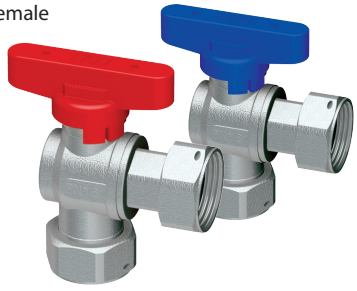


ART. 3099

Code	size	Ø nut	handle	€	box	pack
3099 34B	3/4"	3/4"	blue		5	50
3099 34R	3/4"	3/4"	red		5	50

Chrome-plated angled shut-off ball valve complete with double swiveling nut.

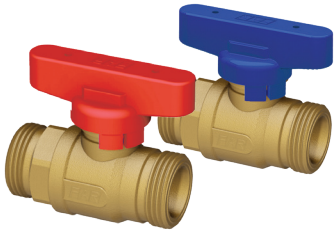
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Female-Female



ART. 3099C

Code	size	Ø nut	handle	€	box	pack
3099 34BC	3/4"	3/4"	blue		5	50
3099 34RC	3/4"	3/4"	red		5	50

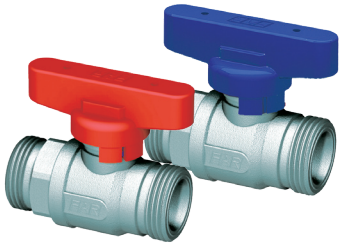
Brass shut-off ball valve.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Male



ART. 3067

Code	size	handle	€	box	pack
3067 34B	3/4"	blue		5	50
3067 34R	3/4"	red		5	50

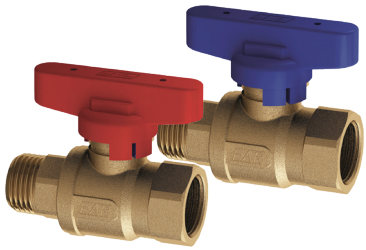
Chrome-plated shut-off ball valve.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Male



ART. 3067C

Code	size	handle	€	box	pack
3067 34BC	3/4"	blue		5	50
3067 34RC	3/4"	red		5	50

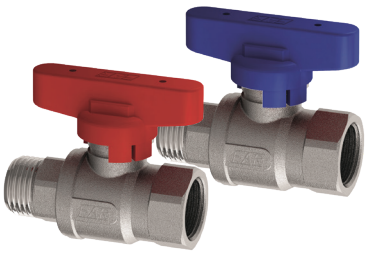
Brass shut-off ball valve.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Female



ART. 3097

Code	size	handle	€	box	pack
3097 12B	1/2"	blue		5	50
3097 12R	1/2"	red		5	50

Chrome-plated shut-off ball valve.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: Male-Female



ART. 3097C

Code	size	handle	€	box	pack
3097 12BC	1/2"	blue		5	50
3097 12RC	1/2"	red		5	50

Shut-off ball valve.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: female-female
- Complete with blue and red plugs

ART. 3036M

Code	size	finish	€	box	pack
3036 M12	1/2"F x 1/2"F	brass		5	50
3036 M12C	1/2"F x 1/2"F	chrome		5	50
3036 M34	3/4"F x 3/4"F	brass		5	50
3036 M34C	3/4"F x 3/4"F	chrome		5	50

Shut-off ball valve with union.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: male-female
- Complete with blue and red plugs

ART. 3079M

Code	size	finish	€	box	pack
3079 M12	1/2"F x 1/2"M	brass		5	50
3079 M12C	1/2"F x 1/2"M	chrome		5	50
3079 M34	3/4"F x 3/4"M	brass		5	50
3079 M34C	3/4"F x 3/4"M	chrome		5	50
3079 M1	1"F x 1"M	brass		5	50
3079 M1C	1"F x 1"M	chrome		5	50

Shut-off ball valve.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: male-male
- Complete with blue and red plugs

ART. 3067M

Code	size	finish	€	box	pack
3067 M34	3/4"	brass		5	50
3067 M34C	3/4"	chrome		5	50

Shut-off ball valve.
- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: male-female
- Complete with blue and red plugs

ART. 3097M

Code	size	finish	€	box	pack
3097 M12	1/2"	brass		5	50
3097 M12C	1/2"	chrome		5	50
3097 M34	3/4"	brass		5	50
3097 M34C	3/4"	chrome		5	50

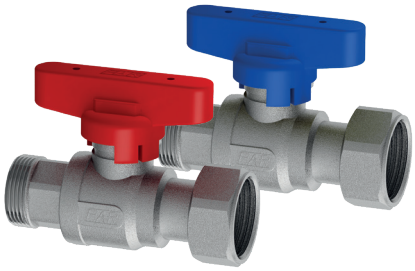
Black spare handle complete with blue and red plugs.

ART. 8144

Code	€	box	pack
8144		1	-

Chrome-plated shut-off ball valve complete with swiveling nut.

- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: with 3/4" swiveling nut
- Interchangeable connection for copper, plastic and multilayer pipe

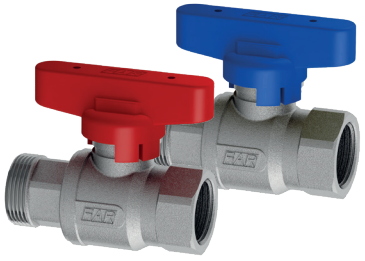


ART. 3035C

Code	size	handle	€	box	pack
3035 34BC	3/4"	blue		10	-
3035 34RC	3/4"	red		10	-

Chrome-plated shut-off ball valve.

- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: 1/2" female
- Interchangeable connection for copper, plastic and multilayer pipe

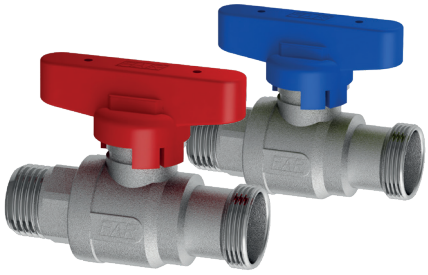


ART. 3038C

Code	size	handle	€	box	pack
3038 12BC	1/2"	blue		10	-
3038 12RC	1/2"	red		10	-

Chrome-plated shut-off ball valve.

- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Connections: 1/2" male
- Interchangeable connection for copper, plastic and multilayer pipe

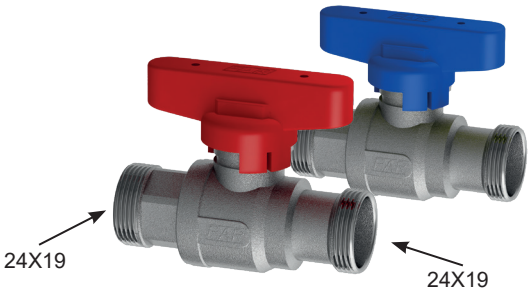


ART. 3041C

Code	size	handle	€	box	pack
3041 12BC	1/2"	blue		10	-
3041 12RC	1/2"	red		10	-

Chrome-plated shut-off ball valve.

- Valve body and ball in CW617N forged brass
- Chrome-plated ball
- EPDM sealing gaskets
- Nominal pressure: 16bar
- Max. working temperature: 95°C
- Interchangeable connection for copper, plastic and multilayer pipe



ART. 3043C

Code	size	handle	€	box	pack
3043 12BC	1/2"	blue		10	-
3043 12RC	1/2"	red		10	-