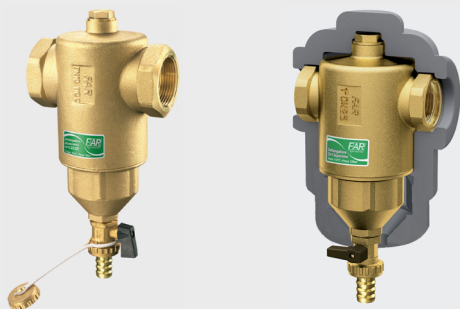
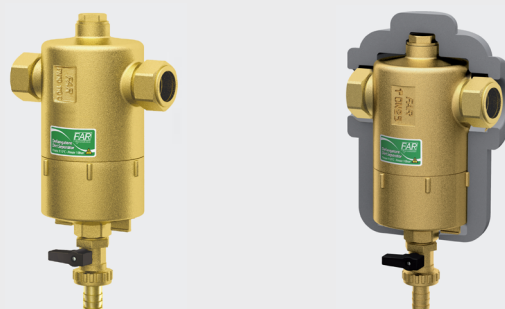


ART.2200 - 2201



ART.2202 - 2215



ART.2203 - 2204



ART.2205 - 2206



1 DESCRIPTION

The 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.

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.

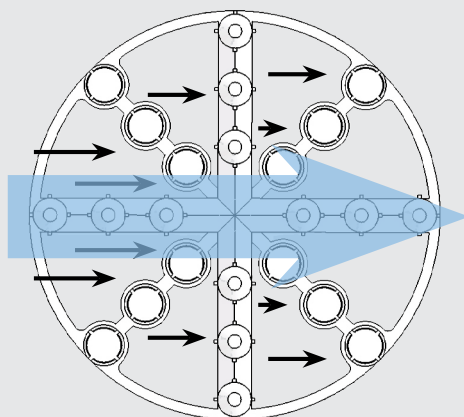
The dirt separator has an internal chamber that reduces flow rate and decreases the drag force, facilitating separation of impurities. Inside this chamber a cartridge is placed transversally to the direction of the flow, acting as a barrier to the water and reducing its kinetic energy, so that impurities drop down. The effect is reinforced by the use of tongues on the vertical bars of the cartridge, which drive the impurities downwards. The debris deposited at the bottom of the dirt separator can be discharged through a drain cock located in the lower section.

The dirt separators **art.2202-2215-2205-2206** with magnetic inserts are ideal for systems with a high concentration of iron particles, deposits or debris caused by corrosion.

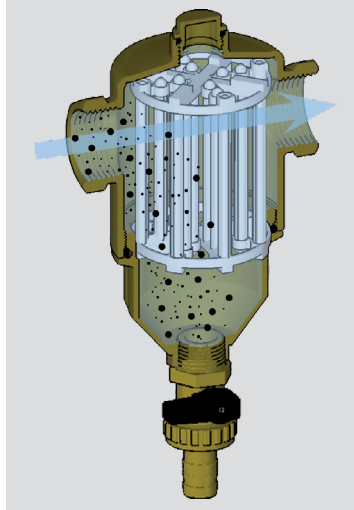
2 OPERATION

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 tongues create turbulence to slow the flow rate and facilitate the separation and settling of impurities. The dirt separator with magnetic inserts allows to catch iron particles in older systems or in systems with high dirt concentration.

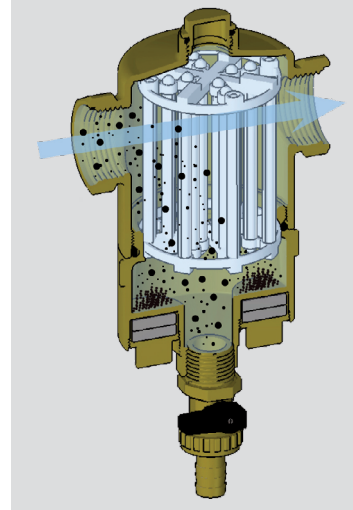
Cartridge section which shows the water flow (blue arrow) and the impurities movement (black arrows).



Without magnetic insert



With magnetic insert



3 CONSTRUCTION DETAILS

WITHOUT MAGNETIC INSERT

1/2" UPPER PLUG

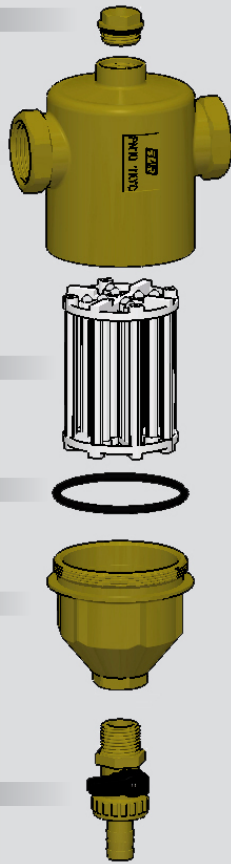
UPPER BODY

FILTRATION CARTRIDGE

SEALING O-RING

LOWER BODY

DRAIN COCK



WITH MAGNETIC INSERT

1/2" UPPER PLUG

UPPER BODY

FILTRATION CARTRIDGE

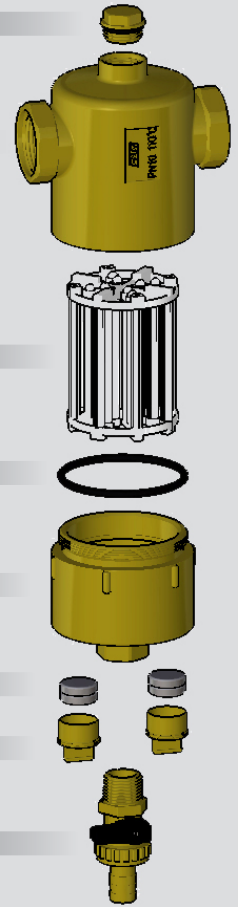
SEALING O-RING

LOWER BODY

MAGNETIC INSERTS

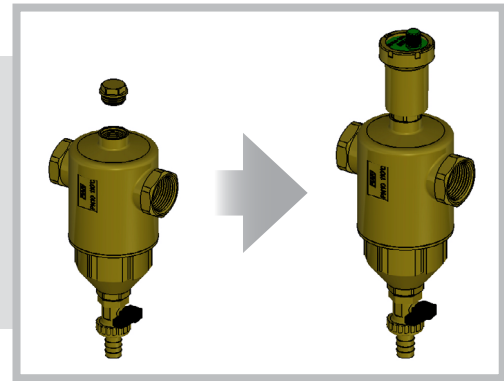
MAGNET-HOLDERS

DRAIN COCK



A FAR automatic air vent valve can be installed simply by removing the upper plug and screwing the valve onto the dirt separator.

All versions of the dirt separator are available with 1/2" upper connection.



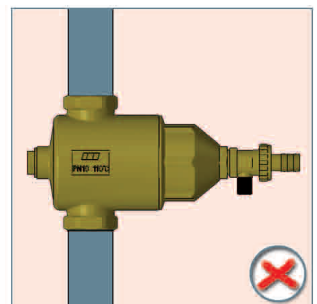
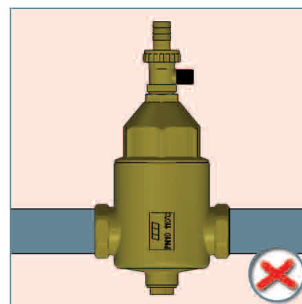
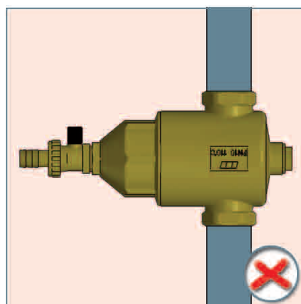
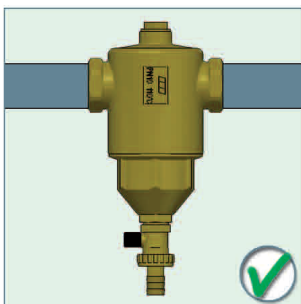
4 INSTALLATION



NB: Because of the magnetic inserts, anybody fitted with a pacemaker is advised to maintain a safe distance during operation and maintenance. Attention should also be paid to the use of electronic equipment near magnetic inserts to avoid interference.

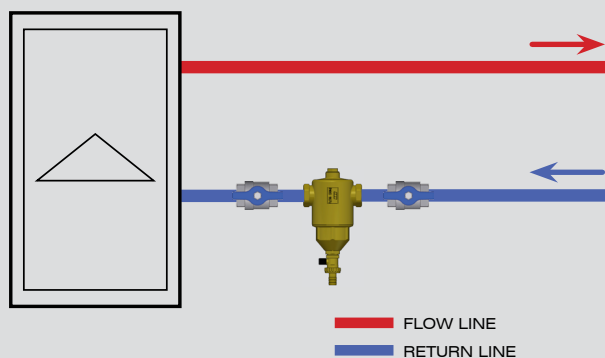


NB! For proper operation the dirt separator should always be installed in a vertical position.

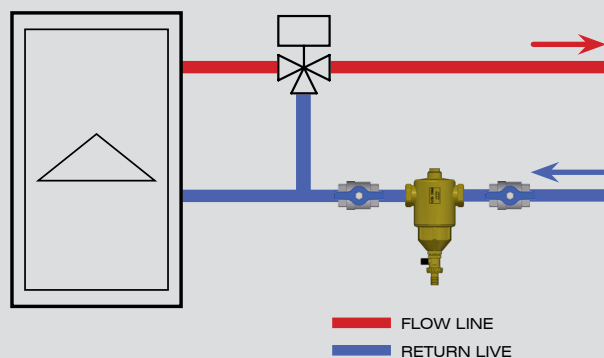


The dirt separator should be placed on the return line before the boiler, in such a way as to catch all the impurities that might damage the boiler and pumps. It is recommended that the dirt separator is installed between two isolating valves for maintenance.

CORRECT INSTALLATION IN STANDARD SYSTEMS



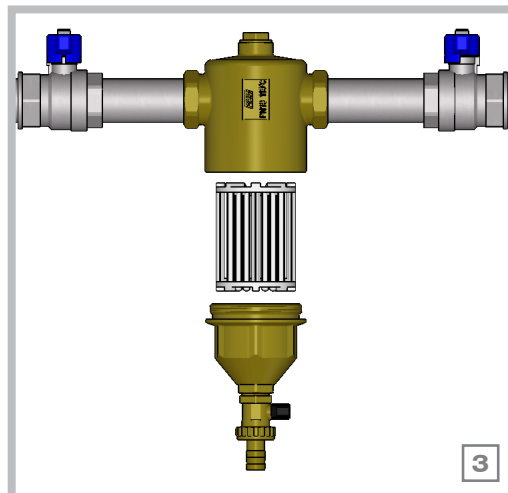
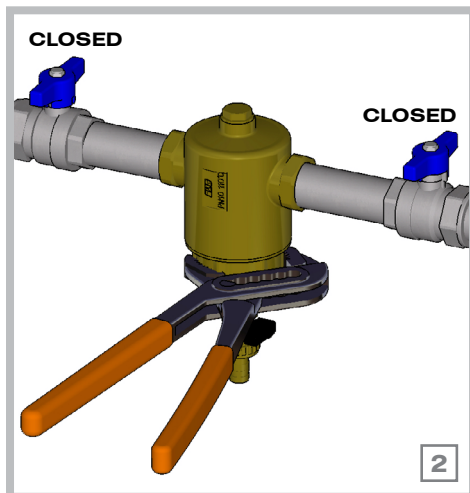
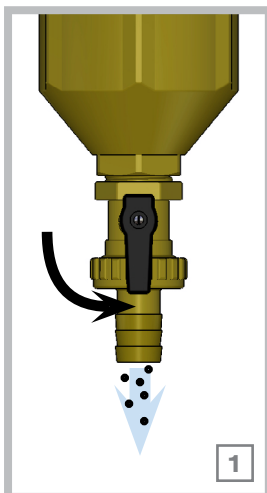
CORRECT INSTALLATION IN SYSTEMS WITH MIXING VALVE



5 MAINTENANCE

Version without magnetic insert

In addition to the usual discharge procedure through the drain cock located at the bottom (**picture 1**), it is possible to unscrew the lower body using a plumbing wrench (**picture 2**) and remove the filter cartridge for cleaning (**picture 3**), in such a way as to remove all impurities.

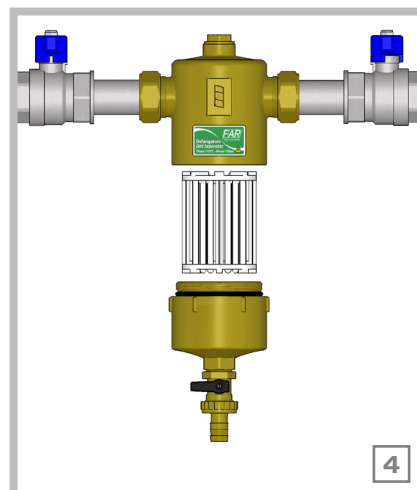
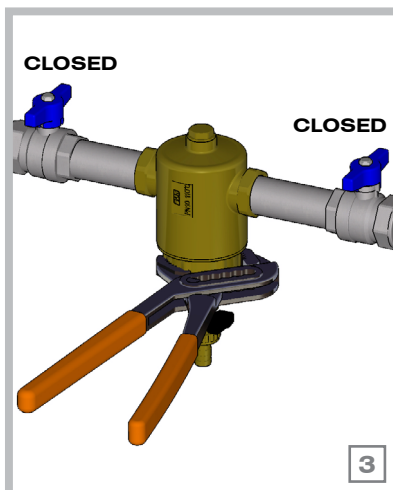
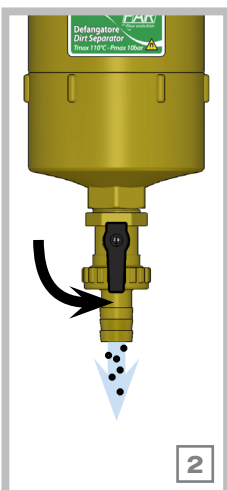
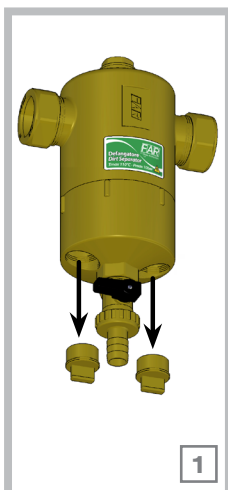


Version with magnetic insert

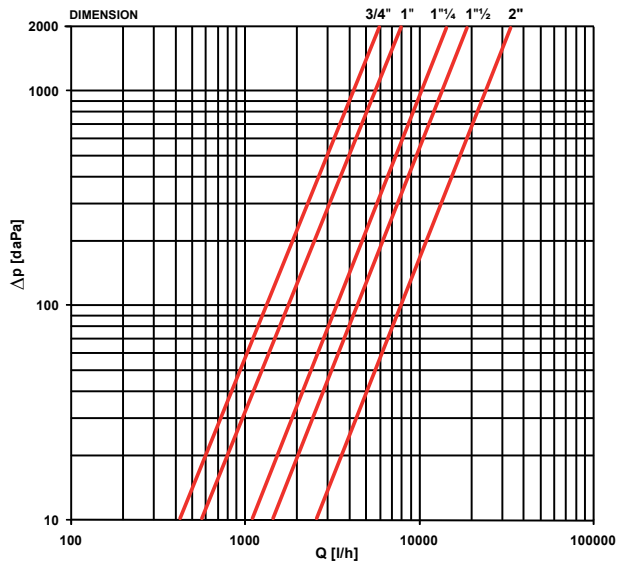


NB: Because of the magnetic inserts, anybody fitted with a pacemaker is advised to maintain a safe distance during operation and maintenance. Attention should also be paid to the use of electronic equipment near magnetic inserts to avoid interference.

Before proceeding with maintenance, unscrew the magnet-holders by hand, as shown in picture A. It is then possible to clean the dirt separator as previously described.



6 FLUID-DYNAMIC FEATURES

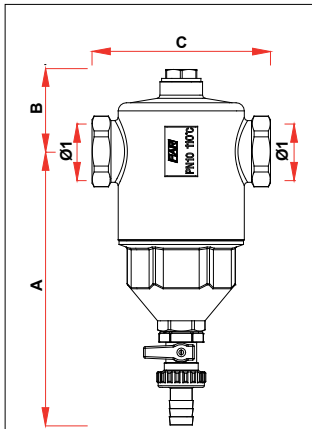


Dimension	3/4"	1"	1" 1/4	1" 1/2	2"
Kv [m³/h]	13,2	17,9	32,4	40,6	73,2

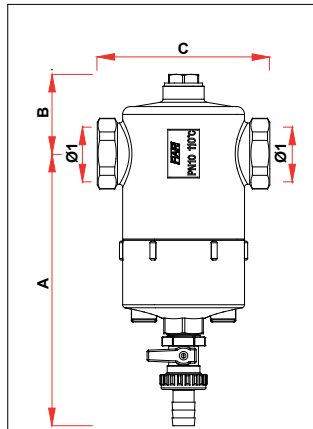
7 TECHNICAL FEATURES

Body: CB753S brass
Lower cock: CW617N brass
Max. working temperature: 110°C
Nominal pressure: 10 bar
Filtration cartridge: PA6
O-Ring: EPDM

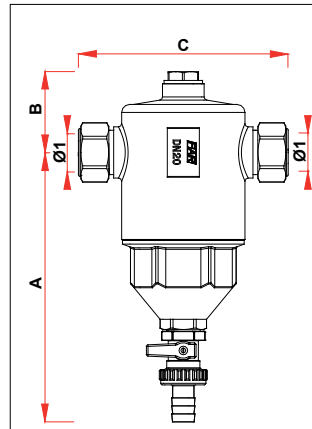
B DIMENSIONAL FEATURES



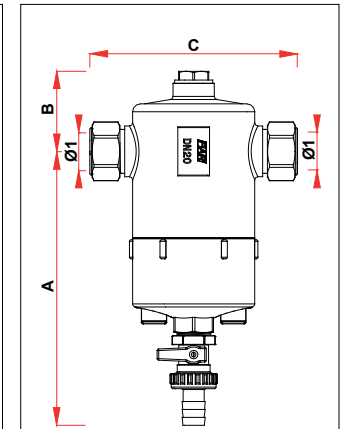
CODE	Ø1	A	B	C
2200 34	G3/4	170	51	109
2200 1	G1	170	51	109
2200 114	G1 1/4	184	56	119
2200 112	G1 1/2	184	56	119
2200 2	G2	180	61	126



CODE	Ø1	A	B	C
2205 34	G3/4	174	51	109
2205 1	G1	174	51	109
2205 114	G1 1/4	188	56	119
2205 112	G1 1/2	188	56	119
2205 2	G2	184	61	126



CODE	Ø1	A	B	C
2203 122	Ø22	170	51	142



CODE	Ø1	A	B	C
2202 122	Ø22	172	51	142