




PROTECTOR MULTIFUNCTION SafeCleaner




- Eliminates all particles in the circulation system
- Low pressure loss
- Can be installed in multiple directions
- Prolongs the system lifespan
- Corrosion prevention
- Improves the plant performance
- Can be used as a dosing point for chemicals
- Easy installation

PRODUCT Overview

Code	Afmetingen	Aansluitingen	Verdeel lichaam
	2319.05.50	G 3/4"	Polymer
	2319.06.50	G 1"	Polymer
	2344.05.50	G 3/4"	messaging
	2344.06.50	G 1"	messaging
	2319.05.00	G 3/4"	Polymer
	2319.06.00	G 1"	Polymer
	2344.05.00	G 3/4"	messaging
	2344.06.00	G 1"	messaging
	2405.05.00	G 3/4"	messaging
	2405.06.00	G 1"	messaging

ACCESSORIES

Code	Se airator
37.03.60	 G 3/8 de airator

FILTER OMSCHRIJVING

The multifunction magnetic filter "SafeCleaner" RBM, is the solution to solve plant issues related to sludge, rust and any kind of iron residual comes from radiators during the central heating normal working conditions.

WORKING PRINCIPLE:

Thanks to its constant and efficacy action the magnetic filter captures all the dissolved impurities within the system, avoiding that those stay in circulation and consequently prevents any kind of damages to the other plant components (pumps, control valves, etc..) but mainly protect the boiler against damage caused by the presence of these impurities

HOW TO USE IT:

For best performance we recommend to install SafeCleaner on the return leg of the circuit downstream the last radiator and upstream the boiler, to protect it, especially at the start up, from the contamination of all medium impurities (sludge and iron particles mainly)

In order to guarantee higher filtering efficiency function is important to respect the arrow indicating the flow path.

The full oriented diverter body gives the option of any kind of installation position:

- VERTICAL
- HORIZONTAL
- ANY OTHERS IN BETWEEN

The main body is designed to facilitate the chemical dosing through it thanks to the 500 ml chamber capacity.

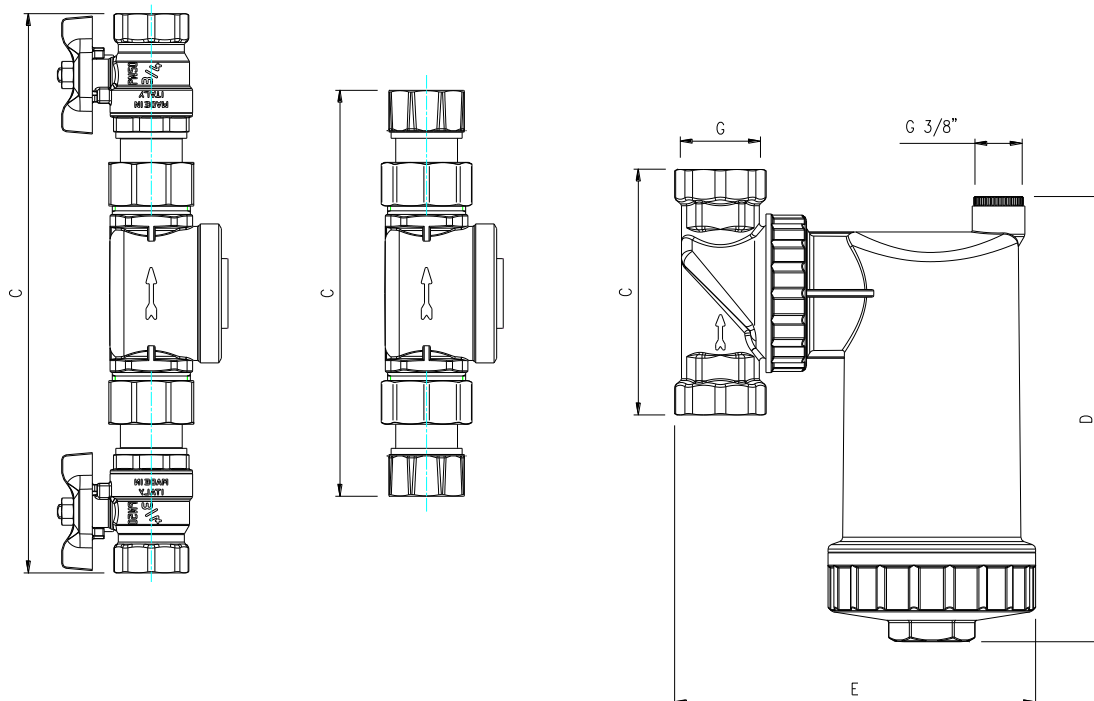
MATERIALS

- | | |
|--|---|
| <ul style="list-style-type: none"> • Diverter body: • Main body: • Ring: • Magnet housing: • Filter cartridge: • Seals: • Magnet: | <p>Nichel plated brass / Polyammide PA66% (2 possible version)</p> <p>Polyammide PA66 30% GF</p> <p>Poliammide PA66 30% GF</p> <p>Poliammide PA66 30% GF</p> <p>AISI 304</p> <p>EPDM</p> <p>Neodimium REN35 B = 11.000 Gauss</p> <p>$B(T_{max}) / B(T_{amb})^* < 1\%$ (where $T_{max} = 130^{\circ}C$, $T_{amb} = 21^{\circ}C$)</p> <p><i>Tested according to IEC 60404-5 & ASTM A977</i></p> |
|--|---|

THECNICAL CHARACTERISTICS

- | | |
|--|---|
| <ul style="list-style-type: none"> • Medium: • Max operating pressure: • Working temperature range: | <p>Water, Water + Glycol</p> <p>3 Bar</p> <p>0÷90°C</p> |
|--|---|

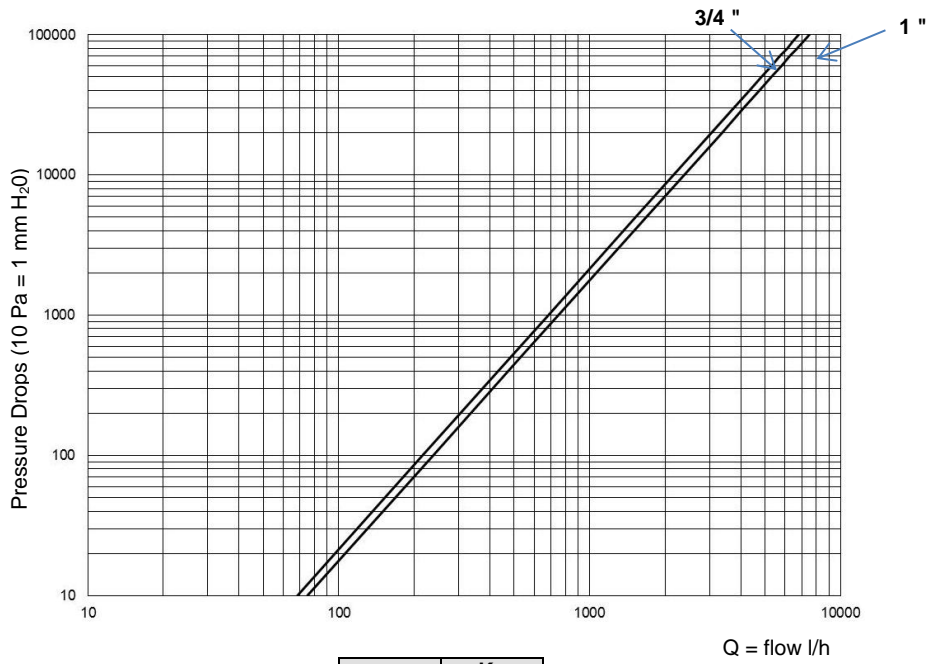
DIMENSIONS



Codes	G	C [mm]	D [mm]	E [mm]
2319.05.50	G 3/4"	237	189	153
2319.06.50	G 1"	253	189	153
2344.05.50	G 3/4"	237	189	153
2344.06.50	G 1"	253	189	153
2319.05.00	G 3/4"	173	189	153
2319.06.00	G 1"	179	189	153
2344.05.00	G 3/4"	173	189	153
2344.06.00	G 1"	179	189	153
2405.05.00	G 3/4"	104	189	153
2405.06.00	G 1"	104	189	153

HYDRAULIC CHARACTERISTICS

Pressure drops chart



Size	Kv [m ³ /h]
G 3/4"	6,81
G 1"	7,51

HOW DOES IT WORK

Through a specific designed path the medium is forced to pass within the filter mesh and in the filter chamber. There, thanks to a combined actions of:

- filter cartridge
- magnet
- particular medium path gives by the inner geometry

the medium is been filtered.

First of all the section change along medium path decreasing the medium speed (section increase) and consequently decrease too the speed of the particles dissolved/suspended in the medium.

Those particles collides to the filter mesh decreasing once more its speed.

Heavy particles goes naturally to the bottom of the filter (where they are collected), while the magnet inside the filter captures all rustes, dirties and iron particles.

In that way all contaminants (sludge, sand, rust, iron particles, etc...) normally found in a central heating system can be easily removed and kept inside the filter chamber.

The SS cartridge is specifically designed to keep lower the pressure drops (it exersits low hydraulic resitance) giving a particular path to the medium which contribute to drag heavy contaminants to bottom of the filter.

During maintance, in order to easy clean the magnet housing remove the sheath and clean it (see filter instruction sheet)

