Magnetic filter “mini” ¾"

Product code: 5393034000



INSTALLATION, OPERATION AND MAINTENANCE MANUAL

English

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1. General information and identification

Product: A compact magnetic filter designed for installation beneath gas boilers. Its small size facilitates installation in confined spaces and allows straightforward filter cleaning.

Description and intended use

Compact magnetic filtration unit with visual inspection for heating systems. It incorporates a stainless-steel mesh and magnets to capture impurities. Larger particles settle in a sedimentation chamber.

The transparent housing allows dirt build-up to be monitored and cleaning to be carried out as required. Maintenance can be performed by removing the plastic cover and rinsing the assembly with water, following the procedure described in this manual.

Safety warnings and precautions

⚠ **WARNING · Operating conditions**

Before installing the filter, check the system operating conditions, such as pressu and temperature, to ensure that they are within the operating range of the product.

⚠ **WARNING · Magnetic field**

The filter contains magnets. The magnetic field generated may damage nearby electronic equipment, including pacemakers, and other precision

instruments.

2. Technical specifications

Parameter	Manufacturer's value
Type / nominal diameter	MINI / DN20

Compatible fluids	Water; ethylene glycol solution at concentrations up to 30 %
Specified pressure	3 bar
Temperature range	0–90 °C
Mesh size	800 µm
Specified magnetic value	0.7 T
Flow coefficient (Kv)	4.45 m^3/h
System return connection:	3/4"M (ISO 228-1)
Wall-mounted boiler connection:	3/4"M (ISO 228-1)

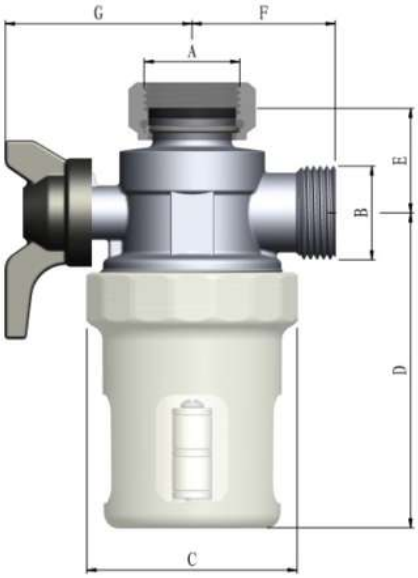
Legend: M = male thread; T = tesla (magnetic force); Kv = flow coefficient (m^3/h)

Identified materials and components

Component	Specified material
Valve body	Chrome-plated brass EN12165 CW617N
Water seal	EPDM
Transparent filter housing	PC
Outer casing	PA66G30, as stated in the final description
Filter mesh	304 stainless steel

3. Dimensions and connections

The original drawing identifies dimensions using the letters A–G. The complete image is retained to preserve the technical references; a higher-resolution copy is required to read the details.



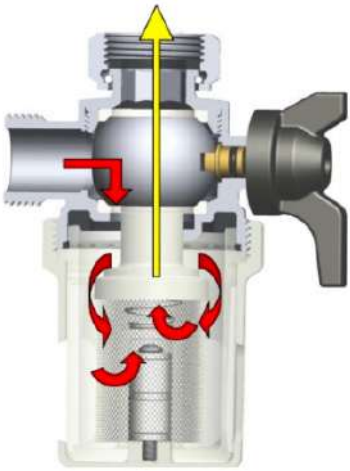
Product code	A	B	C	D	E	F	G
5393034000	3/4	3/4	58	87	29	39.5	51.5

4. Operating principle

The cylindrical stainless-steel mesh, with an 800 µm filtration rating, channels the water flow to trap impurities on its outer surface. Larger particles settle in the sedimentation chamber.

Inside the mesh, an assembly of cylindrical permanent magnets provides a second stage of capture for fine rust particles. The combination of mechanical filtration and magnetic capture separates these contaminants from the system water.

The transparent chamber allows accumulated dirt to be observed and facilitates inspection, cleaning and maintenance.





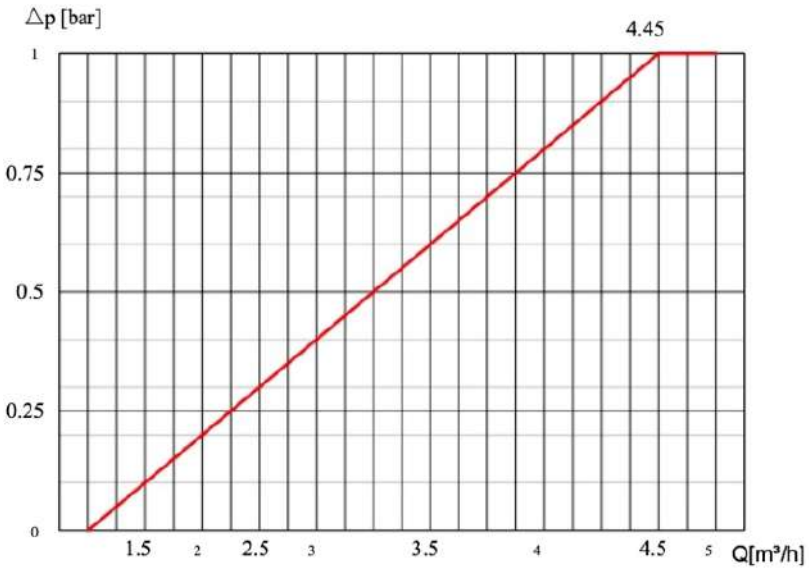
Note: The arrows in the cross-section indicate flow; the transparent bowl allows sedimentation to be observed.

Shut-off operation

The valve bridge design allows the system to be isolated without draining it, discharging only the residual water from the collection chamber. The mechanism designation and the original expression relating to draining or venting are ambiguous and require confirmation.



Hydraulic characteristics



5. Installation

Before installing the filter, check that the system pressure and temperature are within the values specified under “Hydraulic characteristics”. Observe the magnetic field warning.

1. Position the filter as shown: Position the filter beneath the wall-mounted boiler, with the collection chamber pointing downwards, in the vertical position marked ✓ in the manufacturer’s diagram. Do not install it in either of the positions marked ×.



ESPAÑOL: El filtro solo puede instalarse verticalmente.



INGLÉS: The filter can only be installed vertically.
FRANCÉS: Le filtre ne peut être installé que verticalement.

2. Identify the connections. Locate the wall-mounted boiler connection and the system return connection. Both are specified as 3/4"M (ISO 228-1). Orient the device in the return flow direction, as indicated by the red arrows.

3. Check the filter position. Verify that the filter is in the position marked ✓ in the illustration. Do not use the positions marked ×.

4. Perform a visual inspection. Inspect the filter through the transparent side.

5. Operate the control. Move the control in the “open” direction.

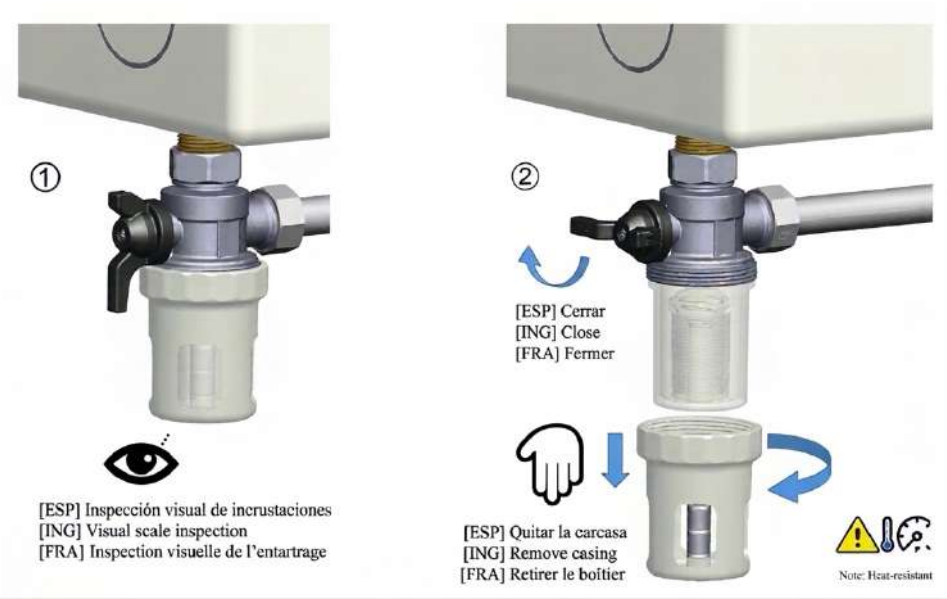
6. Operation, maintenance and cleaning

During operation, inspect the transparent chamber for accumulated impurities and dirt or scale deposits on the mesh. Clean as required.

Inspection and disassembly

① **Visual inspection.** Visually check the condition of the mesh and the chamber, as indicated by the eye symbol in Figure 3.

② **Shut-off and housing removal.** Close the valve before removing the housing. Remove the filter mesh for cleaning. Figure 3 shows operation of the control and how to unscrew and remove the housing.



Draining, rinsing and reassembly



③ **Draining the bowl.** The illustration shows residual water being drained from the removed bowl into a collection container.

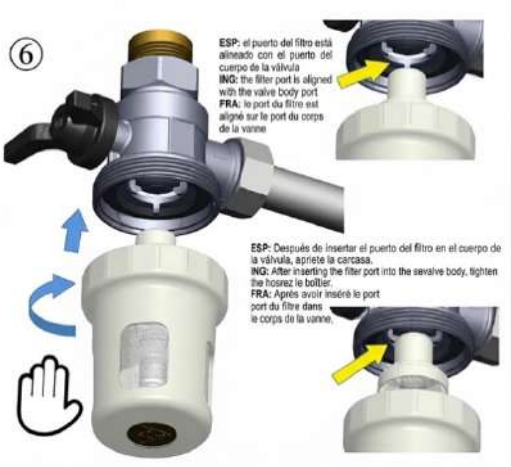


④ **Rinsing the filter.** Rinse the mesh with tap water until clean. The illustration shows the components being rinsed under running water.



⑤ **Refitting the filter.** Refit the mesh. Align the filter opening with the opening in the valve body.

⑥ **Refitting the housing.** Once the filter opening has been inserted into the valve body, screw on and tighten the housing.



Restoring operation

⑦ **Opening the valve.** Once the assembly has been refitted, reopen the valve to restore system operation.

