

FOOT VALVES WITH EDGE FILTER



Description

Barberi® foot valves are monodirectional devices, allowing the backflow prevention of fluid under pressure. They allow the filtering of the fluid in which they are immersed, for this reason they are normally used in hot and cold water suction systems from wells or storages and in general hydraulic systems.

These valves can be only vertically installed since the sealing is obtained by gravity and not by a spring as for example in articles 010, 014, 015, 024, 025 and V39.

Range of products

Series 040 Foot valve with brass filter with horizontal edges

Features

Working temperature range: **0 (no frost)–60 °C**

Max working pressure:

- from G 3/4 F to G 1 F: **10 bar**

- from G 1 1/4 F to G 2 F: **8 bar**

- from G 2 1/2 F to G 4 F: **6 bar**

Suitable fluids: **water for thermal systems, glycol solutions (max 30%), domestic water**

Threaded connections: **ISO 228-1**

Tests: **EN12266-1 §A.3**

Materials

Body: **brass EN 12165 CW617N**

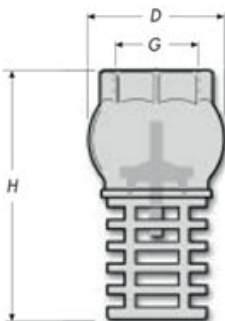
Obturator: **brass EN 12165 CW617N**

Filter: **brass EN 1982 CB753S**

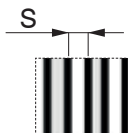
Obturator gasket: **NBR**

Filter gasket: **non asbestos fiber**

Dimensions



S: Maximum passage dimension of indeformable solid body (eg. stone)



| Code | P [bar] | G | D [mm] | H [mm] | S [mm] | Weight [kg] | N. P/S | N. P/C |
|-----------|---------|-----------|--------|--------|--------|-------------|--------|--------|
| 040020000 | 10 | G 3/4 F | 45 | 70 | 2,2 | 0,2 | 12 | 96 |
| 040025000 | 10 | G 1 F | 51 | 82 | 2,5 | 0,3 | 12 | 72 |
| 040032000 | 8 | G 1 1/4 F | 61 | 95 | 2 | 0,505 | 5 | 45 |
| 040040000 | 8 | G 1 1/2 F | 69 | 103 | 2,5 | 0,595 | 6 | 36 |
| 040050000 | 8 | G 2 F | 80 | 121 | 3 | 0,91 | 4 | 24 |
| 040065000 | 6 | G 2 1/2 F | 100 | 140 | 4 | 1,5 | - | 12 |
| 040080000 | 6 | G 3 F | 121 | 175 | 4 | 2,12 | - | 10 |
| 040100000 | 6 | G 4 F | 141 | 195 | 4,3 | 3,58 | - | 5 |

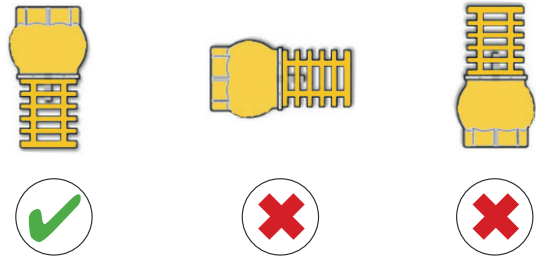
N. P/S: number of pieces in box - N. P/C: number of pieces in carton

Installation

Before installing a foot valve please verify the system working conditions, such as pressure and temperature, to be sure that they are within the working conditions of the valve.

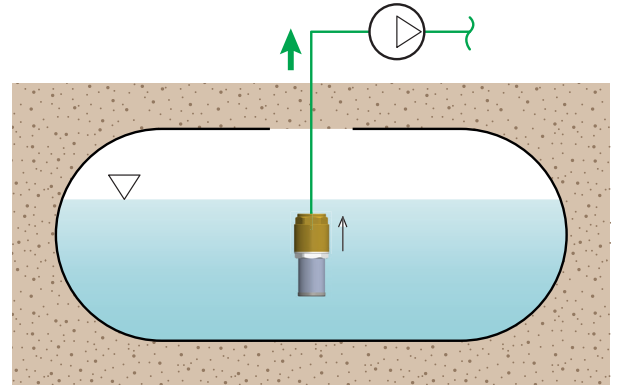
Positioning

The valve can be installed only in vertical position with the filter pointing downward. It is suggested to place the valve so that the filter is far enough from walls, at least 4–5 cm, to avoid the cartridge from getting dirty quickly and excessive suction efforts.



Maintenance

Inspect the valve regularly according to the operating conditions and frequency of use. If leakages are found where the gasket is housed, these could be caused by debris. It is therefore necessary to disassemble the filtering part (which is also the sealing seat of the obturator) and clean accurately the gasket, using compressed air or mechanical action to remove all impurities. The filter, assembled on the valve body, must be cleaned regularly to guarantee a correct flow to the user and avoid excessive suction efforts to the booster pumps. To clean the filter, it is suggested to disassemble and clean it with a countercurrent flow and, if damaged or too many incrustations are revealed, replace it. In easy situations, it is possible to clean the filter only on the external surface by passing a sponge and providing with a good flushing. CAUTION: if the filter or the valve body needs to be disassembled, be sure that the booster pumps are always switched off.



Specifications

Series 040

Foot valve with brass filter with horizontal edges. Threaded connections G 3/4 F (from G 3/4 F to G 4 F). Brass body, obturator and filter; gaskets in NBR and non asbestos fiber. Maximum working pressure 10 bar (from G 3/4 F to G 1 F), 8 bar (from G 1 1/4 F to G 2 F), 6 bar (from G 2 1/2 F to G 4 F). Working temperature range 0–60 °C. Suitable fluids water for thermal systems, glycol solutions (max 30%), domestic water.