

EN	DATA SHEET		rev. B
<b>ST00097</b>			
<b>014</b>	<b>015</b>	<b>024</b>	
<b>025</b>	<b>010</b>		

## FOOT VALVES WITH STAINLESS STEEL FILTER



**014**



**015**



**024**



**025**



**010**

### 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.

### Range of products

- Series 014**      Foot valve with interchangeable stainless steel filter - nylon filter connection
- Series 015**      Foot valve with interchangeable stainless steel filter - brass filter connection
- Series 024**      Foot valve for high pressure with interchangeable stainless steel filter - nylon filter connection
- Series 025**      Foot valve for high pressure with interchangeable stainless steel filter - brass filter connection
- Series 010**      Foot valve with integrated stainless steel filter

### Features

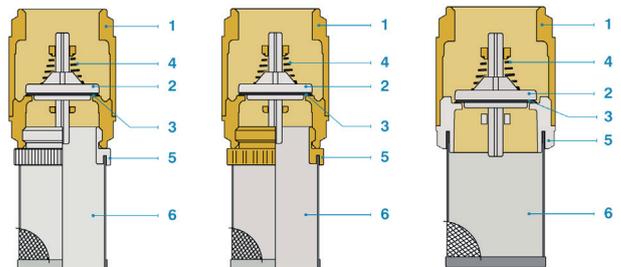
Working temperature range (peaks): **-20 (no frost)–110 °C**  
 Working temperature range: **0 (no frost)–95 °C**  
 Opening pressure: **0,02 bar**  
 Max working pressure:  
 - 010, 014, 015:    from G 3/8 to G 1      **16 bar**  
                           from G 1 1/4 to G 2    **10 bar**  
                           from G 2 1/2 to G 4    **8 bar**  
  
 - 024, 025:        from G 3/8 to G 1      **25 bar**  
                           from G 1 1/4 to G 2    **18 bar**

Suitable fluids: **water for thermal systems, glycol solutions (max 30%), domestic water**  
 Connections: **threaded connections ISO 228-1**  
 Tests: **EN 12266-1 §A.3**

**On request: versions with galvanic treatment**

### Materials

- 1 - Body: **brass EN 12165 CW617N**
- 2 - Obturator: **POM**
- 3 - Gaskets: **NBR**
- 4 - Spring: **stainless steel AISI 302**
- 5 - Filter connection:  
 - 010, 014, 024: **nylon**  
 - 015, 025: **brass EN 12164 CW614N**
- 6 - Filter: **stainless steel AISI 304 L**



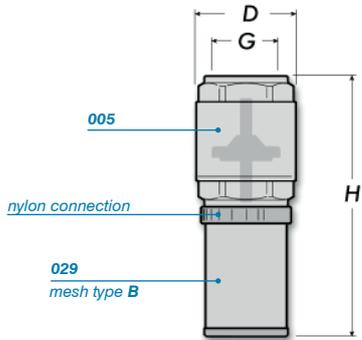
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## FOOT VALVES WITH STAINLESS STEEL FILTER

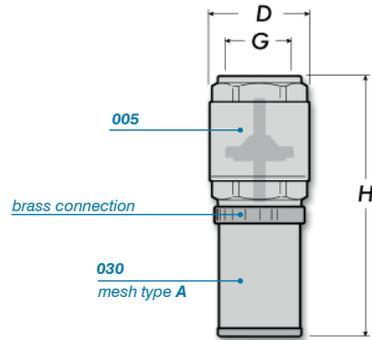
### Dimensions



**014**

Code	P [bar]	G	D	H	Mesh type	Weight [g]	N. P/B	N. P/C
014010000	16	G 3/8	29	88	B	80	25	300
014015000	16	G 1/2	30	90	B	110	20	240
014020000	16	G 3/4	37	100	B	170	15	135
014025000	16	G 1	44	111	B	250	14	84
014032000	10	G 1 1/4	56	123	B	360	7	42
014040000	10	G 1 1/2	63	139	B	490	5	30
014050000	10	G 2	78	163	B	790	3	18
014065000	8	G 2 1/2	103	176	B	1375	-	9
014080000	8	G 3	120	203	B	2020	-	6
014100000	8	G 4	155	233	B	3310	-	4

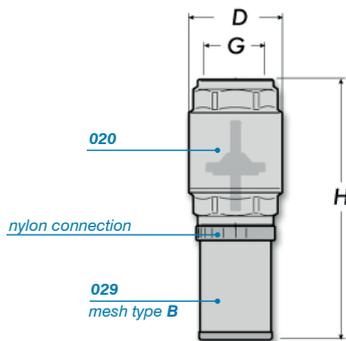
N. P/B: number of pieces in box  
 N. P/C: number of pieces in carton



**015**

Code	P [bar]	G	D	H	Mesh type	Weight [g]	N. P/B	N. P/C
015010000	16	G 3/8	29	88	A	95	25	200
015015000	16	G 1/2	30	90	A	125	20	160
015020000	16	G 3/4	37	100	A	190	15	135
015025000	16	G 1	44	111	A	285	14	84
015032000	10	G 1 1/4	56	123	A	415	6	36
015040000	10	G 1 1/2	63	139	A	550	5	30
015050000	10	G 2	78	163	A	860	3	18
015065000	8	G 2 1/2	103	176	A	1510	-	9
015080000	8	G 3	120	203	A	2180	-	6
015100000	8	G 4	155	233	A	3550	-	4

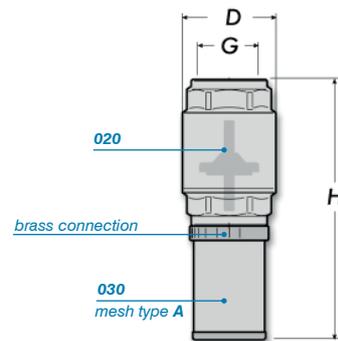
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**024**

Code	P [bar]	G	D	H	Mesh type	Weight [g]	N. P/B	N. P/C
024010000	25	G 3/8	29	95	B	122	15	120
024015000	25	G 1/2	32	100	B	160	15	120
024020000	25	G 3/4	39	112	B	245	14	84
024025000	25	G 1	47	127	B	345	6	54
024032000	18	G 1 1/4	60	137	B	570	5	30
024040000	18	G 1 1/2	67	154	B	725	4	24
024050000	18	G 2	83	177	B	1100	3	18

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

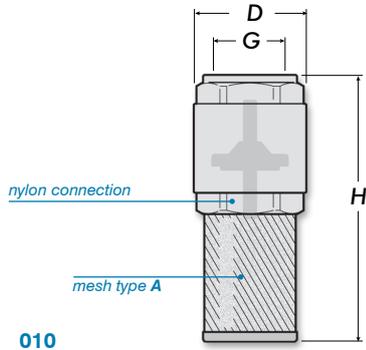


**025**

Code	P [bar]	G	D	H	Mesh type	Weight [g]	N. P/B	N. P/C
025010000	25	G 3/8	29	95	A	135	24	192
025015000	25	G 1/2	32	101	A	175	12	144
025020000	25	G 3/4	39	114	A	265	14	84
025025000	25	G 1	47	129	A	380	8	48
025032000	18	G 1 1/4	60	139	A	635	5	30
025040000	18	G 1 1/2	67	155	A	780	4	24
025050000	18	G 2	83	178	A	1150	3	12

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

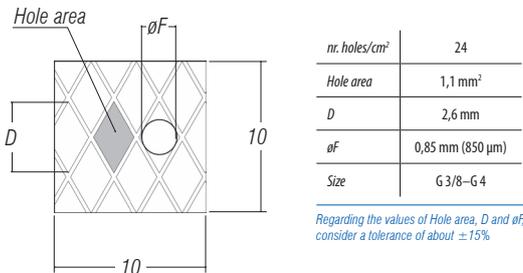
## FOOT VALVES WITH STAINLESS STEEL FILTER



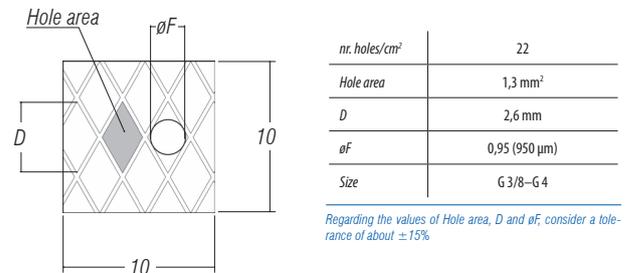
Code	P [bar]	G	D	H	Mesh type	Weight [g]	N. P/B	N. P/C
010015000	16	G 1/2	29	80	A	75	15	180
010020000	16	G 3/4	37	90	A	115	28	168
010025000	16	G 1	44	100	A	165	16	96
010032000	10	G 1 1/4	56	110	A	265	7	42
010040000	10	G 1 1/2	63	126	A	330	6	36
010050000	10	G 2	78	146	A	535	3	18
010065000	8	G 2 1/2	103	162	A	1000	-	10
010080000	8	G 3	120	188	A	1535	-	6
010100000	8	G 4	155	214	A	2615	-	4

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

### Filter mesh - Type A



### Filter mesh - Type B

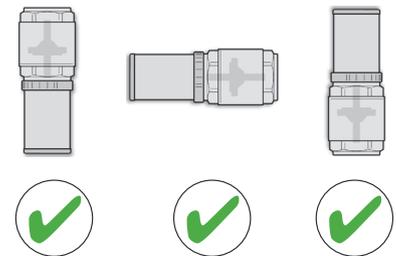


### Installation

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.

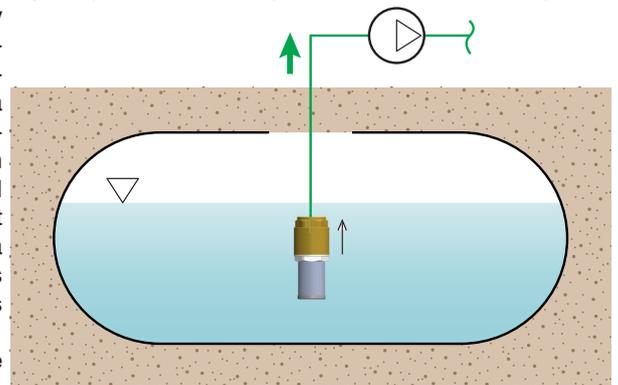
#### Positioning

The valves can be installed in any position respecting the flow direction as indicated by the arrow on the valve body. 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 valve 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 (series 014, 015, 024, 025) and, if damaged or too many incrustations are revealed, replace it. In easy situation, it is possible to clean the filter only on the external surface by passing a sponge and providing with a good flushing. The filter of the 010 series can only be cleaned according to this last procedure and if the filter is too much damaged it is necessary to replace the whole valve. CAUTION: if the filter or the valve body needs to be disassembled, be sure that the booster pumps are always switched off.



## FOOT VALVES WITH STAINLESS STEEL FILTER

### Accessories

## 029

Stainless steel filter with nylon connection

Max working temperature: **95 °C**



Code	Size	Mesh type		
029 010 000	G 3/8 M	B	50	400
029 015 000	G 1/2 M	B	35	280
029 020 000	G 3/4 M	B	20	160
029 025 000	G 1 M	B	25	100
029 032 000	G 1 1/4 M	B	20	80
029 040 000	G 1 1/2 M	B	10	40
029 050 000	G 2 M	B	6	24
029 065 000	G 2 1/2 M	B	-	20
029 080 000	G 3 M	B	-	10
029 100 000	G 4 M	B	-	6

## 030

Stainless steel filter with brass connection

Max working temperature: **140 °C**



Code	Size	Mesh type		
030 010 000	G 3/8 M	A	50	400
030 015 000	G 1/2 M	A	35	280
030 020 000	G 3/4 M	A	20	160
030 025 000	G 1 M	A	25	100
030 032 000	G 1 1/4 M	A	20	80
030 040 000	G 1 1/2 M	A	10	40
030 050 000	G 2 M	A	6	24
030 065 000	G 2 1/2 M	A	-	20
030 080 000	G 3 M	A	-	10
030 100 000	G 4 M	A	-	6

## 028

Stainless steel filter with stainless steel connection

Max working temperature: **140 °C**



Code	Size	Mesh type		
028 010 000	G 3/8 M	C	50	400
028 015 000	G 1/2 M	C	35	280
028 020 000	G 3/4 M	C	20	160
028 025 000	G 1 M	C	12	96
028 032 000	G 1 1/4 M	C	9	72
028 040 000	G 1 1/2 M	C	10	40
028 050 000	G 2 M	C	6	24
028 065 000	G 2 1/2 M	C	4	16
028 080 000	G 3 M	C	-	11
028 100 000	G 4 M	C	-	6

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## FOOT VALVES WITH STAINLESS STEEL FILTER

### Specifications

#### Series 014

Foot valve with interchangeable stainless steel filter and nylon filter connection. Threaded connection from G 3/8 to G 4 F. Brass body. POM obturator. Stainless steel spring. NBR gasket. Stainless steel filter, nylon filter connection. Working temperature range 0–95 °C (no frost). Opening pressure 0,02 bar. Maximum working pressure 16 bar (from G 3/8 to G 1), 10 bar (from G 1 1/4 to G 2), 8 bar (from G 2 1/2 to G 4). Suitable fluids water for thermal systems, glycol solutions max 30%, domestic water. Minimum diameter of the filtered particles 950 µm.

#### Series 015

Foot valve with interchangeable stainless steel filter and brass filter connection. Threaded connection from G 3/8 to G 4 F. Brass body. POM obturator. Stainless steel spring. NBR gasket. Stainless steel filter, brass filter connection. Working temperature range 0–95 °C (no frost). Opening pressure 0,02 bar. Maximum working pressure 16 bar (from G 3/8 to G 1), 10 bar (from G 1 1/4 to G 2), 8 bar (from G 2 1/2 to G 4). Suitable fluids water for thermal systems, glycol solutions max 30%, domestic water. Minimum diameter of the filtered particles 850 µm.

#### Series 024

Foot valve for high pressure with interchangeable stainless steel filter and nylon filter connection. Threaded connection from G 3/8 to G 2 F. Brass body. POM obturator. Stainless steel spring. NBR gasket. Stainless steel filter, nylon filter connection. Working temperature range 0–95 °C (no frost). Opening pressure 0,02 bar. Maximum working pressure 25 bar (from G 3/8 to G 1), 18 bar (from G 1 1/4 to G 2). Suitable fluids water for thermal systems, glycol solutions max 30%, domestic water. Minimum diameter of the filtered particles 950 µm.

#### Series 025

Foot valve for high pressure with interchangeable stainless steel filter and brass filter connection. Threaded connection from G 3/8 to G 2 F. Brass body. POM obturator. Stainless steel spring. NBR gasket. Stainless steel filter, brass filter connection. Working temperature range 0–95 °C (no frost). Opening pressure 0,02 bar. Maximum working pressure 25 bar (from G 3/8 to G 1), 18 bar (from G 1 1/4 to G 2). Suitable fluids water for thermal systems, glycol solutions max 30%, domestic water. Minimum diameter of the filtered particles 850 µm.

#### Serie 010

Foot valve with integrated stainless steel filter. Threaded connection from G 1/2 to G 4 F. Brass body. POM obturator. Stainless steel spring. NBR gasket. Stainless steel filter. Working temperature range 0–95 °C (no frost). Opening pressure 0,02 bar. Maximum working pressure 16 bar (from G 1/2 to G 1), 10 bar (from G 1 1/4 to G 2), 8 bar (from G 2 1/2 to G 4). Suitable fluids water for thermal systems, glycol solutions max 30%, domestic water. Minimum diameter of the filtered particles 850 µm.