

CO-AXIAL CAST IRON FLANGED OVERFLOW VALVE TYPE BFS

FEATURES

The BFS is a pressure relief valve designed to maintain upstream pressure in water supply circuits. Its co-axial design offers a simple and compact appearance with high flow rates. The upstream pressure is adjusted via the pilot screw. The manometer allows visualization of the upstream pressure. The BFS must be protected by a filter installed upstream. Construction: cast iron body, brass internals, and NBR sealing. Horizontal or ascending vertical installation.

AVAILABLE MODELS

DN50 to DN350

Connections: PN16 RF flanges according to EN 1092-1

Upstream pressure setting ranges: 0,3-4 bar and 2-8 bar



CLASSIFICATION CE 2014/68

Article 4 § 3 –prohibited use on gases of group I

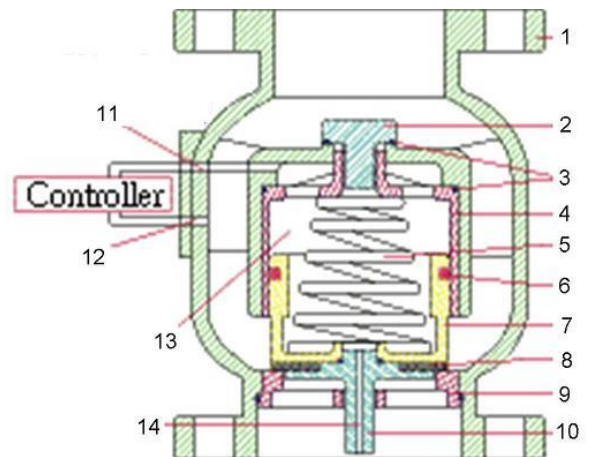


LIMITS OF USE

Fluid pressure PS :	16 bar
Fluid temperature TS :	-10°C / +80°C
Minimum upstream pressure	0,3 bar

CONSTRUCTION

No.	Name	Caste iron	ST STEEL
1	Body	Gray cast iron	ST 1.4408
2	Cap	Brass	ST 316
3	O-ring	NBR	NBR / FPM
4	Cylinder	Bronze	ST 316
5	Spring	Stainless steel	Acier ST
6	Segment	NBR	NBR / FPM
7	Piston	Bronze	ST 316
8	Gasket	NBR	NBR / FPM
9	Seat	Bronze	ST 316
10	Stem	Bronze	ST 316



INSTALLATION

Horizontal or vertical installation with upward flow.

Plan for a protective filter upstream of the valve.

Follow the direction of installation indicated by the arrow.

Channel the downstream discharge pipe to a suitably sized capacity.

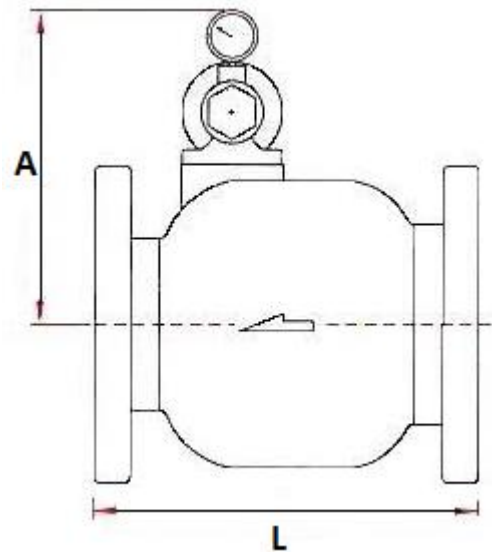
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DIMENSIONS (mm) AND WEIGHT (kg)

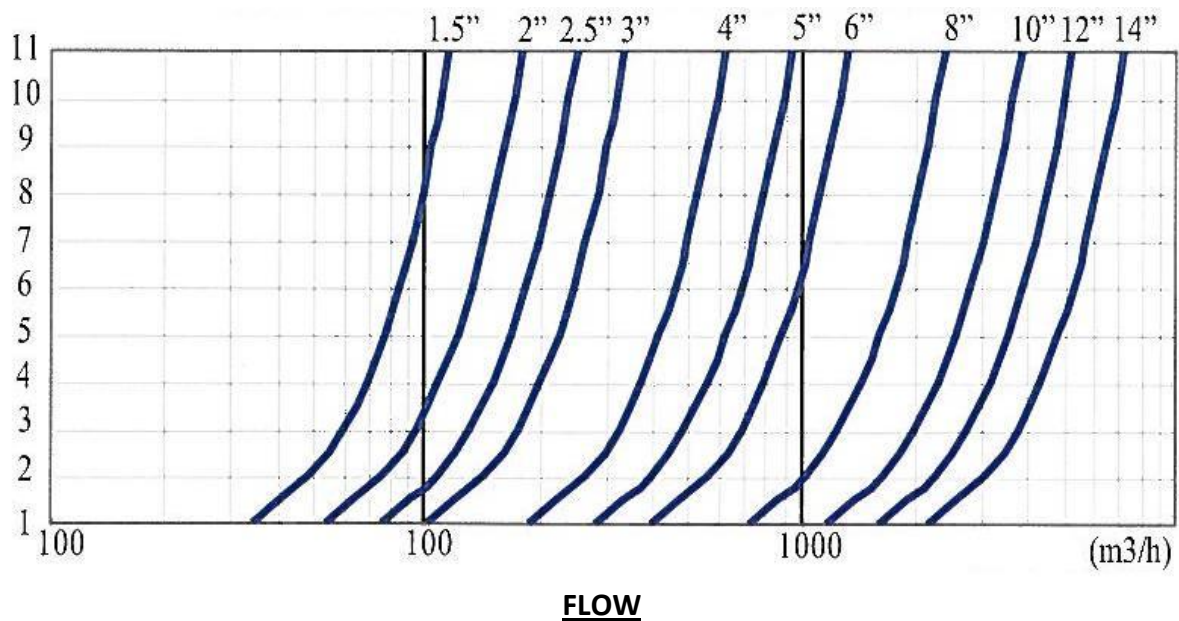
DN	L (mm)	A (mm)	Weight (kg)
50	190	130	12
65	210	140	14
80	225	155	19
100	255	165	26
125	285	180	37
150	315	215	50
200	420	235	94
250	470	280	152
300	530	310	202
350	605	350	285



COEFFICIENT AND FLOW CURVE

DN	50	65	80	100	125	150	200	250	300	350
Inches	2"	2" 1/2	3"	4"	5"	6"	8"	10"	12"	14"
Kv (m³/h)	64	89	119	222	333	470	854	1367	1880	2564

Head losses ΔP (bar)



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ASSEMBLY AND MAINTENANCE INSTRUCTIONS

1. Assembly

Check that the pressure range indicated on the body is suitable for the intended use. Before installation, cut off the upstream and downstream pipes, depressurize the pipeline and bring the installation to room temperature. Install a filter upstream. Also install a shut-off valve upstream and downstream. Thoroughly clean the piping of any particles or debris by flushing with water or blowing with air. Install the overflow valve in the direction of the arrow on the body, with the pressure gauge facing upwards. Open the upstream and downstream valves. Use the adjustment screw of the pilot valve and the indicator of the upstream pressure on the manometer in order to adjust the desired upstream pressure.

2. Maintenance

Before any intervention, isolate the upstream and downstream piping using the shut-off valves. Depressurize the pipeline and bring the installation to room temperature. Remove the upstream filter plug and clean or replace the strainer. Remove the upstream filter plug and clean or replace the strainer. For a complete inspection of the device, disassemble parts (1) and (9). Remove the shaft (10) and piston (7). Check the condition of seals (6) and (8). Replace if necessary. Check as well the condition of the spring (5), replace it if it is broken. Clean all internal parts. Reassemble all parts in the reverse order of disassembly. Put the device back into service by slowly opening the upstream valve, then the downstream valve. Readjust the pressure using the pilot valve.

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