COAXIAL PRESSURE REDUCING VALVE TYPE BFR

FEATURES

The coaxial pressure reducing valve BFR is intended for the function of pressure reduction in the circuits of general fluids such as water. Of simple and modern conception, it allows the control of hight flowrates. It is insensible to the variations of upstream pressure. The control of the downstream pressure is made by means of a piloting valve. The manometer allows to check the reduced pressure. The BFR is available in cast iron or in stainless steel with body internal parts in brass and NBR tightness. it must be protected by a upstream strainer. Horizontal or vertical assembly with ascending flow only.

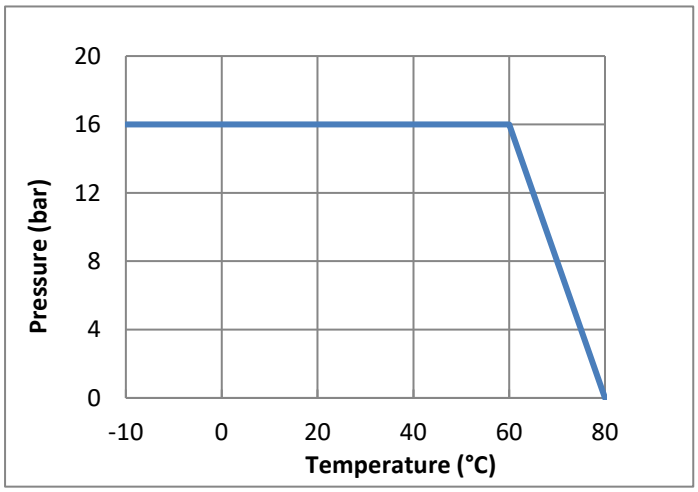


AVAILABLE MODELS

DN50 to DN300.
Flanges connections PN16 raised face.
Downstream pressure range : 1-7 bar and 4-12 bar.
Manometer Ø40.

LIMITS OF USE

Max allowed fluid pressure : PS	16 bar
Max allowed fluid temperature : TS	-10°C / +80°C
Upstream pressure minimum	0,3 bar



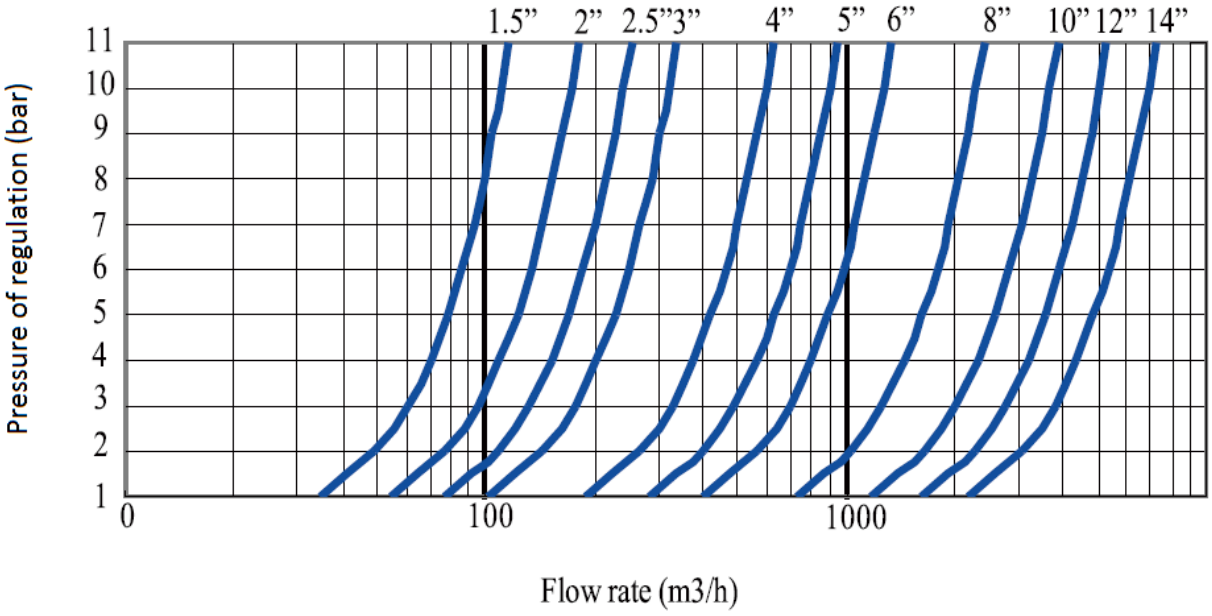
REGULATIONS AND STANDARDS OF CONSTRUCTIONS

Item	Standard	ON
Pressure equipment directive 2014/68	Article 4 § 3 – use forbidden on group I	
Flanges	EN 1092-2	

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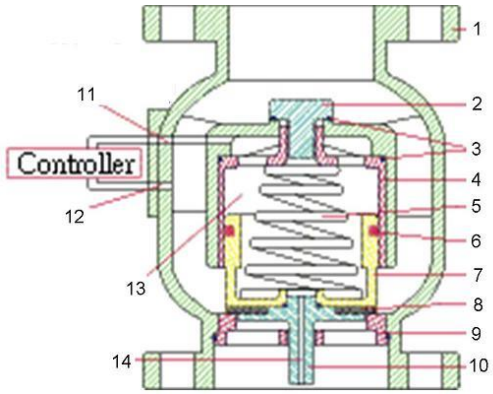
FLOW COEFFICIENT

DN	50	65	80	100	125	150	200	250	300
Inches	2"	2.5"	3"	4"	5"	6"	8"	10"	12"
Kv (m^3/h)	64	89	119	222	333	470	854	1367	1880



CONSTRUCTION

N°	Item	Cast iron	Stainless steel
1	Body	Cast iron	Inox 1.4408
2	Cork	Brass	Inox 316
3	Gaskets	NBR	NBR / FPM
4	Cylinder	Bronze	Stainless steel 316
5	Spring	Stainless steel	Stainless steel
6	O-ring	NBR	NBR / FPM
7	Piston	Bronze	Stainless steel 316
8	Gasket	NBR	NBR / FPM
9	Seat	Bronze	Stainless steel 316
10	Axe	Bronze	Stainless steel 316
11	Of upstream pressure intake		
12	Hole of decompression		
13	Pressure intake		
14	Opening of grip of upstream pressure		

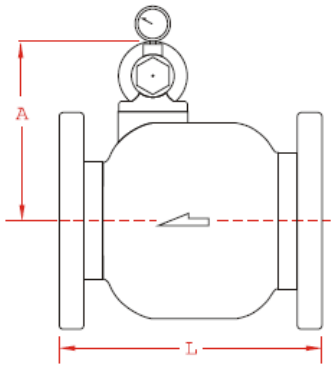


Information given as an indication only, and subject to possible modifications

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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



BFR

INSTRUCTIONS OF MOUNTING AND MAINTENANCE

Mounting :

1 - Verify that the range of pressure indicated on the body is adequate with compared with the use.
2 - The BFR reducer must be installed in horizontal or vertical position with ascending flow only.
3 - Before any installation, shutt off the upstream piping and the downstream, depressurize the pipe and bring the installation at room temperature.
4 - Install a strainer upstream. Install also a stop valve of severing in the upstream and in the downstream.
5 - Clean carefully piping of any particle or shavings by making water cleaning or an air blowing.
6 - Install the pressure reducer by respecting the sense of the arrow indicated on the body and with the manometer upward.
7 - Open the upstream the downstream valves.
8 - Use the adjusting screw of the pilot valve and the indication of the downstream pressure on the manometer to adjust the wished pressure.
9 - Block the adjusting screw in its position by means of the nut.

Maintenance :

1 - Before any intervention, shut off the upstream piping and the downstream by using the stop valves. Depressurize the pipe and bring the installation at room temperature.
2 - Dismantle the screen of the upstream strainer and clean or replace it.
3 - For a complete visit of the device, dismantle the parts (1) and (9).
4 - Bring out the axis (10) and the piston (7). Verify the state of gaskets (6) and (8). Replace them if needed.
5 - Verify also the state of the spring (5). Replace it if it is broken.
6 - Clean all the internal parts.
7 - Assemble all the parts in the inverse order of the dismantling.
8 - Put back the device in service by opening slowly the upstream and then the gate downstream stop valves.
9 - Do it again the setting of the downstream pressure as indicated at the point 8. Of mounting instructions.

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SPARE PARTS

DN	Code (gasket)	Code (Pilot)	
		1-7 bar	4-12 bar
50	981820	981780	981781
65	981821		
80	981822		
100	981823		
125	981824		
150	981825		
200	981826		
250	981827		
300	981828		

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