



Pressure Sustaining/Back Pressure Valves

Benefits & Features

- Water
- Media temperature: +90°C & + 180°C
- 316 Stainless Steel body
- High accuracy, and dependable in operation
- Can also release over-pressure in the system
- Included pressure gauge indicates the adjusted pressure



Pressure Adjusting Range:

- 1 - 5 Bar
- 4 - 10 Bar
- 8 - 13 Bar (special order only, limited availability)

Model: Screwed Port						Orifice mm	Nominal Pressure	KV Flow Factor L/Min.
A	B	C						
P09	I	15	F/G		1/2"	15	25	34
P09	I	20	H/I		3/4"	20	25	129
P09	I	25	L/M		1"	25	25	157
P09	I	40	O/V		1 1/2"	40	25	200
P09	I	50	P/W		2"	50	25	357
Model: PN16 Flanged								
P09	I	15	FL		DN15	15	25	34
P09	I	20	FL		DN20	20	25	129
P09	I	25	FL		DN25	25	25	157
P09	I	40	FL		DN40	40	25	200
P09	I	50	FL		DN50	50	25	357
P09	I	65	FL		DN65	65	25	1072
P09	I	80	FL		DN80	80	25	1144
P09	I	100	FL		DN100	100	25	1716
P09	I	150	FL		DN150	150	25	3575

A	Body Material	B	Ported Body	PN16. (PN10/PN25 ANSI 150/300 upon request)				C	Seals	D	Options		
I	316 Stainless Steel	F	1/2" BSP	G	1/2" NPT	12A	1/2" PN16	25A	2 1/2" PN16	1	VITON (-10°C to + 90°C)	SG	Oxygen Service
		H	3/4" BSP	I	3/4" NPT	34A	3/4" PN16	3A	3" PN16	10	TEFLON (-15°C to + 185°C)		
		L	1" BSP	M	1" NPT	1A	1" PN16	4A	4" PN16				
		O	1 1/2" BSP	V	1 1/2" NPT	15A	1 1/2" PN16	6A	6" PN16				
		P	2" BSP	W	2" NPT	2A	2" PN16						

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Weights & Dimensions

Screwed Port

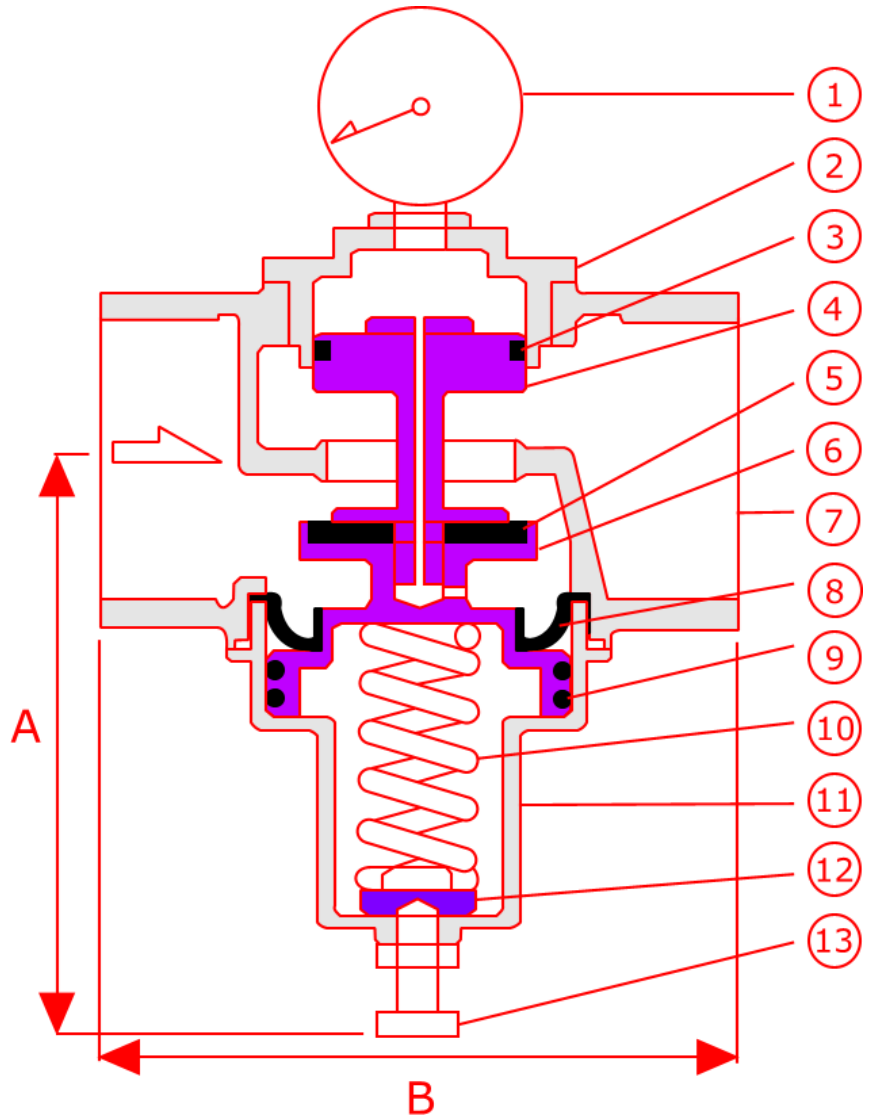
Screwed Port	Weight Kg	Dimensions mm	
		A	B
1/2"	0.8	80	70
3/4"	0.9	105	85
1"	1	105	92
1 1/2"	2.2	130	115
2"	3.1	130	120

Flanged Port

Flanged Port	Weight Kg	Dimensions mm	
		A	B
1/2"	2	80	150
3/4"	2.8	105	150
1"	3.5	105	150
1 1/4"	5.9	130	190
1 1/2"	5.9	130	190
2"	6.5	130	190
2 1/2"	11.5	185	210
3"	12	185	225
4"	19	230	250
6"	45	270	310

Materials

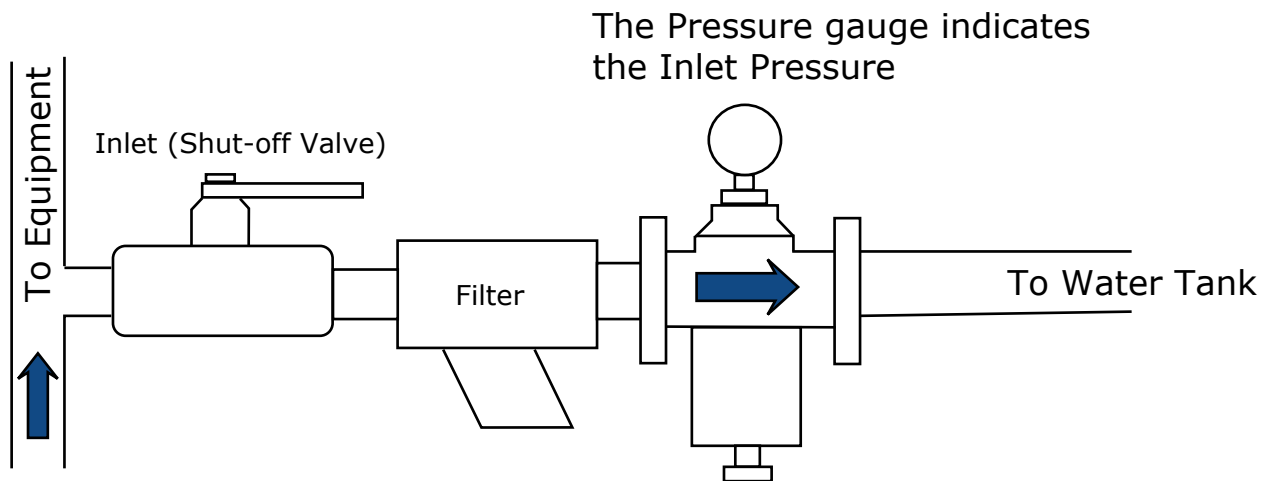
No.	Description	Material
1	Gauge	Stainless Steel
2	Cover	316 Stainless Steel
3	O ring	VITON / TEFLON / EPDM
4	Piston	316 Stainless Steel
5	Sealing Spacer	VITON / TEFLON / EPDM
6	Shaft	316 Stainless Steel
7	Main Body	316 Stainless Steel
8	Diaphragm	VITON
9	O ring	VITON / TEFLON / EPDM
10	Spring	Spring Steel
11	Spring Cover	316 Stainless Steel
12	Washer	Brass
13	Adjusting Stem	316 Stainless Steel



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Installation

Flow Diagram



Installation Procedure

1. Clean & remove all the impurities inside the pipes. We recommend the installation of an inline filter.
2. Make sure the flow direction is correct.
3. The setting pressure gets higher by turning the adjusting stem clockwise.
4. The pressure gauge indicates the inlet pressure.

Adjusting The Setting Pressure:

1. Turn the adjusting stem to the lowest pressure.
2. Adjusting the pressure to the required setting by turning stem (13) clockwise.
Tighten the nut to fix the adjusting stem.