

Micro Pressure Sustaining Valve

Benefits & Features

- Large internal diaphragm is sensitive and accurate
- Micro pressures to 0.02 - 0.2 Bar
- 316 Stainless Steel body
- High accuracy, and dependable in operation
- Included pressure gauge indicates the adjusted pressure



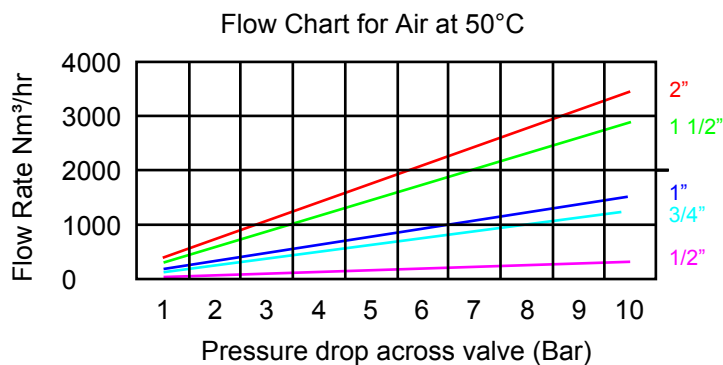
Specification

Configuration	Direct Acting
Port Sizes	1/2" to 2" BSP/NPT screwed ports. 1/2" - 2" PN16 Flanged
Body test pressure	16 Bar
Max. Applied pressures	10 Bar inlet. Outlet pressure range: 0.02 - 0.2 Bar
Body	316 Stainless Steel
Media	Water, Air, Gases, Light Oils
Max. Temp	+ 80°C (NBR)

Technical Data

Model: Screwed Port						Orifice mm	Nominal Pressure	Pressure in Bar test pressure	KV Flow Factor L/Min.	Weight Kg
A	B	C								
P43	I	15	F/G		1/2"	15	10	16	35	*
P43	I	20	H/I		3/4"	20	10	16	129	*
P43	I	25	L/M		1"	25	10	16	157	*
P43	I	40	O/V		1 1/2"	40	10	16	300	*
P43	I	50	P/W		2"	50	10	16	357	*

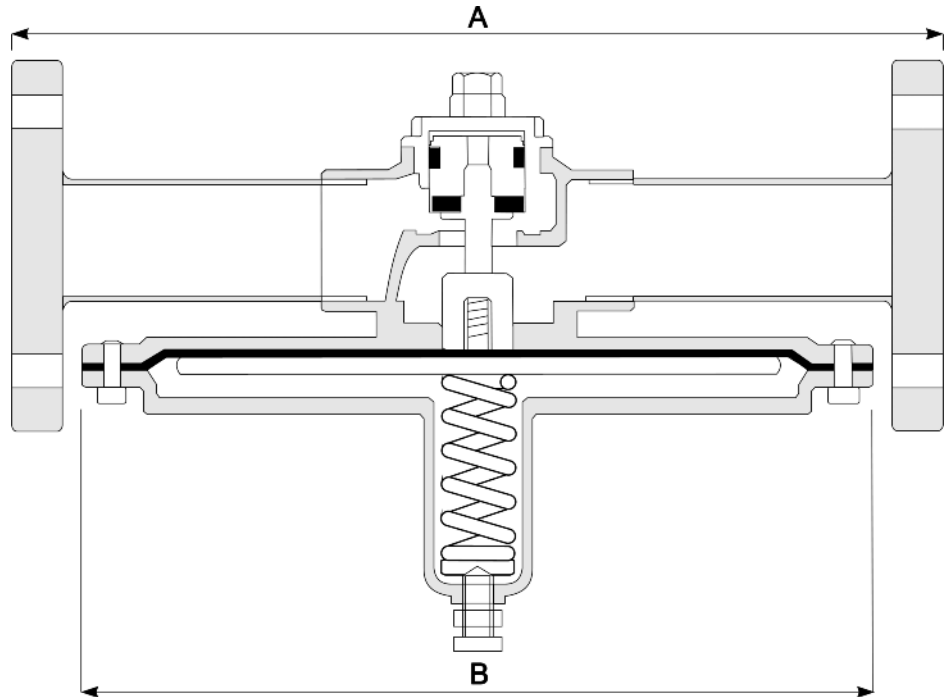
Flow Characteristics



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Weights & Dimensions

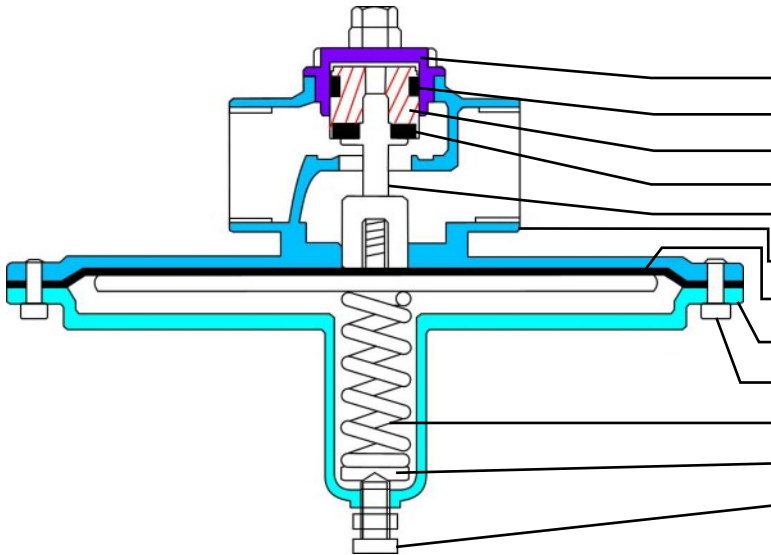
Port Size	Weight Kg	Dimensions mm	
		A	B
1/2"	*	70	*
3/4"	*	85	*
1"	*	90	*
1 1/2"	*	115	*
2"	*	120	*



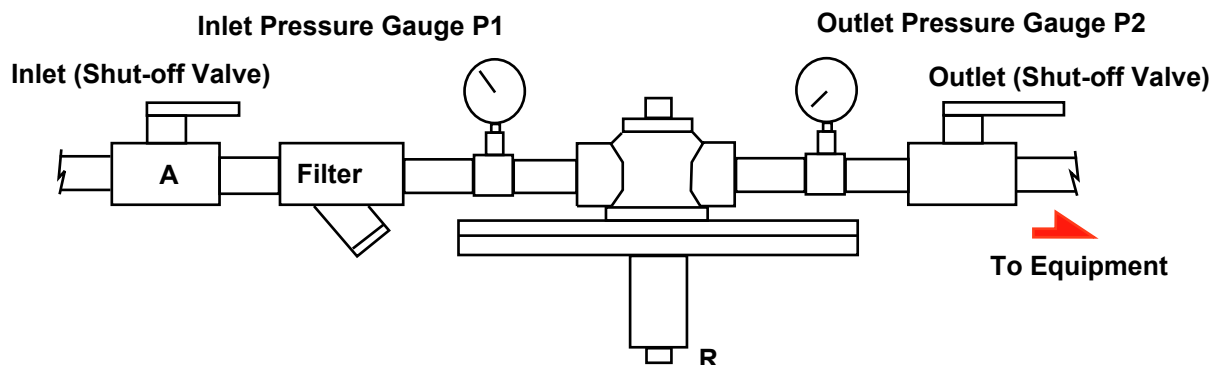
Order Codes

A	Body	B	Ported Body	C	Seals (fluid temp. min / max)	
I	316 Stainless Steel	F	1/2" BSP	G	1/2" NPT	1 VITON (-10°C to +90°C)
		H	3/4" BSP	I	3/4" NPT	
		L	1" BSP	M	1" NPT	
		O	1 1/2" BSP	V	1 1/2" NPT	
		P	2" BSP	W	2" NPT	

Installation Instructions



Part	Part Name	Material
1	Cover	316 Stainless Steel
2	UH-Ring	Depends on the media
3	Piston	316 Stainless steel
4	Sealing	Depends on the media
5	Shaft	316 Stainless Steel
6	Main Body	316 Stainless Steel
7	Diaphragm	Depends on the media
8	Spring Cover	316 Stainless Steel
9	Stem	304 Stainless Steel
10	Spring	Spring Steel
11	Washer	Brass
12	Stem	304 Stainless Steel



Installation Procedure

Before Installation:

1. Clean & remove all impurities inside the pipe. A filter is recommended upon installation.
2. Make sure the direction of the valve is observed with respect to the media flow.
3. The set pressure increases by turning the adjusting stem R (12) clockwise.
4. The Pressure Gauge indicates the Outlet Pressure.
5. The P43 must be installed in the horizontal plain, with the adjusting stem R down.

Adjusting The Set Pressure:

1. Make sure shut off valves A and B are closed.
2. Turn the adjusting stem R anti-clockwise to completely reduce any pressure.
3. Fully open Valve B and then open valve A to a third of fully open.
4. Close valve B slowly and make sure the pressure gauge P2 is in the normal range.
5. If correct, slowly turn valve B fully closed.
6. Turn adjusting stem R clockwise (in) to the desired set pressure.
7. Slowly turn valve A from 1/3 open to fully open.
8. Shut off valve B slowly to check the reducing valve can function.
9. Open and close valve B several times slowly, in order to check whether the pressure remains at the desired set point.
10. Open valve B, and fix the adjusting stem to the correct set pressure.