

Bi-Directional Valve

1/4", 3/8", 1/2"

FEATURES:

- The Bellofram Precision Controls Bi-directional Flow Regulator Unit is specifically designed for instrument air use in severe atmospheres, offering high performance in process control.
- Bellofram Precision Controls' Bi-directional Flow Regulator controls the flow separately in each direction.
- Typical application is the speed control of an actuator.
- Suitable applications include marine environments, oil and gas production, chemicals and food processing, medical analysis, and corrosive atmospheres, among others.
- External and internal parts are NACE MR 0175* approved.

(*National Association of Corrosion Engineers MR 0175 defines requirements for sulphide stress cracking resistant materials used in oilwells and other corrosive environments.)



Parameters	Specifications
Fluid / Operating Media	Compressed Air and Industrial Gases Gases - Filtered lubricated or non-lubricated air, inert gas, sweet (Natural) gases. Liquids - Low pressure hydraulic, mineral oil or water
Pipe size / Connections	1/4", 3/8", 1/2"
Pipe Thread	NPT - Standard
Max. Working Pressure	174 psi (12 bar) maximum
Materials of Construction:	
Body, Bonnet, Internals	SS316L, SS316 (NACE MR 0175 compliance)
Spring	SS316
Seals (Elastomers)	Low temp. Nitrile - Standard
Operating Temperature Range (ambient) For Elastomers	Low temperature - Nitrile -60°C to + 80°C (Standard)
Standard nominal flow rate at 85 psi (6 bar) supply pressure and 14.5 psi (1 bar) pressure drop (differential)	1/4": 22 scfm 3/8": 45 scfm 1/2": 71 scfm
CV Value	1/4" - (0.60) 3/8" - (1.30) 1/2" - (2.00)
Weight	1/4" - 0.838 lbs. (0.380 Kgs.) 3/8" - 2.161 lbs. (0.980 Kgs.) 1/2" - 2.161 lbs. (0.980 Kgs.)

Note:

- 1.) Lock Nut (hex nut) and spring will not have NACE MR 0175 compliance.
- 2.) Internal 'wetted' parts will have NACE MR 0175 compliance.