

Type 68SS 316L

Stainless Steel Bi-Directional Flow Regulator

BELLOFRAM PRECISION CONTROLS



The **Type 68SS Stainless Steel Bi-Directional Flow Regulator** unit is a high-performance product designed for process control, specifically for instrument air use in severe atmospheres. This bi-directional flow regulator controls the flow separately in each direction, making it ideal for actuators or cylinders where speed control is based on the position of the two valve plugs. Applications for the Type 68SS include air pressure regulation in industrial or medical controls, particularly where corrosion resistance is preferred or required. Both the internal materials and the body are made from bar stock SS316L stainless steel, ensuring durability and resistance to harsh conditions.

FEATURES

- All SS316L stainless steel material
- Three port sizes of 1/4" to 1/2" NPTF
- High flow rate 0.60, 1/4" to 2.0, 1/2" CV
- Low temp nitrile elastomers -76°F/+176°F

FOCUS MARKETS/APPLICATIONS

- Instrument & sampling panels
- Corrosive and caustic mediums
- Industrial & specialty actuator control
- Food & beverage facilities and equipment

COMPETITIVE ADVANTAGES

- All 316L NACE compliant
- -76°F to 176°F temp range
- 316L bar stock precision parts
- High flow rate in all port sizes

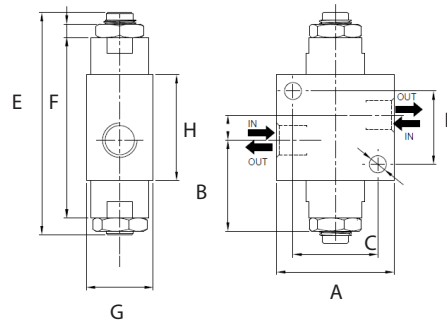
DIMENSIONS

Size		A	B	C	D	E	F	G	H
1/4"	in.	1.78	1.35	1.26	1.09	3.3	2.7	1.0	1.6
	mm.	45.3	34.3	32.0	27.6	84.0	68.0	25.2	40.0
3/8", 1/2"	in.	2.49	2.0	1.75	1.40	4.8	4.1	1.4	2.0
	mm.	63.4	50.8	44.4	35.6	122.0	105.4	35.0	50.9

BELLOFRAM[®]
Precision Controls

TECHNICAL DATA

Fluid/Operating media	Compressed air & 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)
Operating temperature for elastomers (ambient)	-60°C to +80°C (-76°F to +176°F)
Materials of construction:	
Body, Bonnet, Internals	SS316L Body & Bonnet are NACE compliant (MR 0175)
Spring	SS316L
Seals (Elastomers)	Low Temp. Nitrile: -60°C to +80°C (-76°F to +176°F)
Standard nominal flow rate at 85 psi (6 bar) supply pressure and 14.5 psi (1 bar) pressure drop (differential)	1/4" - 22 scfm / 623 lpm 3/8" - 45 scfm / 1,274.3 lpm 1/2" - 71 scfm / 2,010.5 lpm
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" - 2.2 lbs. (1.0 Kgs) 1/2" - 2.2 lbs. (1.0 Kgs)



Bellofram Precision Controls, a division of the
Marsh Bellofram Group of Companies

REV 10.11.24

Type 68SS 316L

Stainless Steel Bi-Directional Flow Regulator

BELLOFRAM PRECISION CONTROLS

ORDERING INFORMATION

68SSBDFR	XX	0	X
PORT SIZE (NPT)			
1/4"	02		
3/8"	03		
1/2"	04		
APPROVAL			
RoHS, Reach			0



Bellofram Precision Controls, a division of the
Marsh Bellofram Group of Companies

REV 10.11.24