

Type 62SS

316L Stainless Steel Pressure Regulator

BELLOFRAM PRECISION CONTROLS

The **Type 62SS Stainless Steel Pressure Regulator** is a direct-acting diaphragm pressure-reducing regulator. This ruggedly built regulator operates in pressure ranges up to 250 psig (17 BAR) with maximum inlet pressure up to 435 psig (30 BAR). The Type 62SS pressure regulator can be through-panel mounted with the mounting nut supplied or pipe mounted by its ports. The Type 62SS applications include clean steam for sanitizing, air pressure and industrial or medical gas pressure regulation. Ideal for when a corrosion-resistant regulator is preferred or required. All material internal as well as the body and bonnet is made from bar stock -316L stainless steel. Oxygen cleaning is available on the T62SS unit for use in clean environments, gases and medical application.



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TECHNICAL DATA

Fluid	Compressed air & Industrial gases
Pipe size	1/4", 3/8", 1/2", 3/4", 1", 1 1/2", 2"
Port thread	NPT - Standard
Max. inlet pressure	435 psi (30 bar)
Operating temp. range	-60°C to +80°C (-76°F to +176°F)
Materials of construction	Stainless steel as per AISI 316L
Body, Bonnet	SS316L with NACE compliance (MR 0175)
Internal parts	SS316L
External parts (Body, Bonnet, End Cap)	SS316L with NACE compliance (MR 0175)
Diaphragm assembly	Synthetic rubber with PTFE protection - Standard Viton (FKM) - Optional
Elastomers	Low Temp. Nitrile: -60°C to +80°C (-76°F to +176°F) - Standard Fluorocarbon (Viton-FKM): -20°C to +180°C (-4°F to +356°F)
Standard Nominal Flow Rate at 150 psi (10 bar) inlet pressure, a set pressure of 87 psi (6 bar) and flow open until output drops 14.5 psi (1 bar) from set point.	1/4" - 82 scfm / 2,321.8 lpm 3/8" - 173 scfm / 4,898 lpm 1/2" - 218 scfm / 6,173 lpm 3/4" - 360 scfm / 10,194 lpm 1" - 480 scfm / 13,592 lpm 1 1/2" - 500 scfm / 14,158.4 lpm 2" - 525 scfm / 14,866.3 lpm
CV value	1/4" - (1.55) 3/8" - (3.26) 1/2" - (4.11) 3/4" - (6.80) 1" - (9.05) 1 1/2" - (9.45) 2" - (9.90)
Type	Relieving - Standard Non-relieving - Optional
Pressure adjustment	Hex headed adjusting screw - Standard "T" handle - Optional
Regulated sec. pressure ranges	3.0 - 30 psi (0.21 - 2.10 bar) 6.0 - 60 psi (0.40 - 4.14 bar) 12.5 - 125 psi (0.86 - 8.6 bar) 15.0 - 150 psi (1.0 - 10.0 bar) 25.0 - 250 psi (1.70 - 17.5 bar)
Gauge port (2 nos.)	1/4" NPT
Mounting	Panel mount nut - Standard
Weight	For 1/2", 3/4" - 4.6 lbs (2.10 Kgs) For 1", 1 1/2", 2" - 13.2 lbs (6.0 Kgs)

FEATURES

- All SS316L stainless steel material
- Seven port sizes of 1/4" to 2" NPTF
- High flow rate 1.5, 1/4" to 9.9, 2" CV
- Five pressure ranges between 3 & 250 psig
- Low temp nitrile elastomers -76°F/+176°F

FOCUS MARKETS/APPLICATIONS

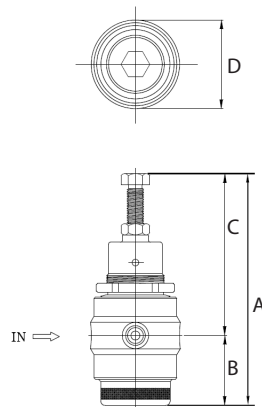
- Medical and bio-medical
- Instrument & sampling panels
- Corrosive and caustic mediums
- Industrial & specialty gas handling
- Pharmaceutical processing equipment
- Food & beverage facilities and equipment

COMPETITIVE ADVANTAGES

- Body, Bowl & Cap are NACE Compliant
- -76°F to 176°F temp range
- 316L bar stock precision parts
- High flow rate in all port sizes
- O2 cleaning available as an option

DIMENSIONS

Size		A	B	C	D
1/4", 3/8"	in.	6.6	2.0	4.6	2.5
	mm.	167.4	50.5	117.0	64.0
1/2", 3/4"	in.	6.6	2.0	4.6	3.2
	mm.	167.4	50.5	117.0	82.0
1", 1 1/2", 2"	in.	9.3	3.9	5.4	4.7
	mm.	236.0	100.0	136.0	120.0



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Type 62SS

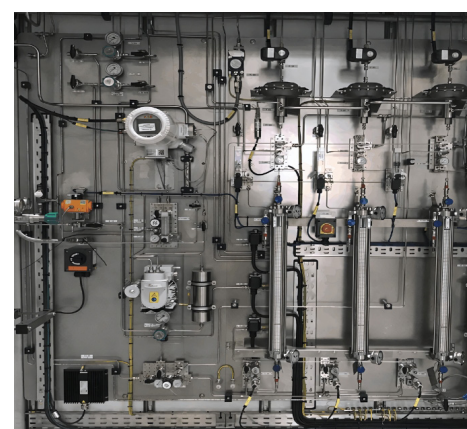
316L Stainless Steel Pressure Regulator

BELLOFRAM PRECISION CONTROLS

ORDERING INFORMATION

62SS	XX	XXX	X	X	0	X	X
PORT SIZE (NPT)							
1/4"	02						
3/8"	03						
1/2"	04						
3/4"	06						
1"	08						
1½"	14						
2"	16						
SPRING RANGE (PSIG / BAR)							
3-30 / 0.2-2.1		030					
6-60 / 0.4-4.0		060					
12-125 / 0.86-8.6		125					
15-150 / 1-10		150					
25-250 / 1.7-17.5		250*					
O-RINGS							
Low temp Nitrile			1				
FKM			2				
VERSIONS							
Relieving - Standard				R			
Non-relieving				N			
ADJUSTMENT							
Hex head - Standard						1	
T-handle						2	
APPROVALS							
RoHS, Reach							0

* Hex head only



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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

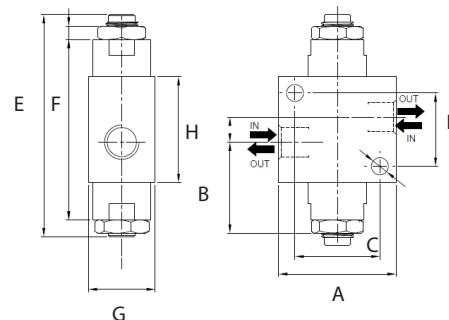
DIMENSIONS

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

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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)



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Type 68SS 316L

Stainless Steel Bi-Directional Flow Regulator

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ORDERING INFORMATION

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



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