

REVISIONS

REV	DC NO.	DESCRIPTION	DATE	APPROVED
DRAWN BY:		MARSH BELLOFRAM P.O. BOX 305 ST. ROUTE 2 NEWELL, WV 26050		
CHECKED BY:		TITLE OF PRODUCT INSTRUCTIONS 68SS PRODUCT INSTRUCTIONS		
APPROVED BY:				
		PART NO. 541-302-000	REVISION	A
ISSUE DATE:		NUMBER OF SHEETS IN THE BODY: 2		

**INSTALLATION & MAINTENANCE
INSTRUCTIONS**

**MODEL
68SS**

**Bi-Directional Flow
Regulator**

SPECIFICATIONS:

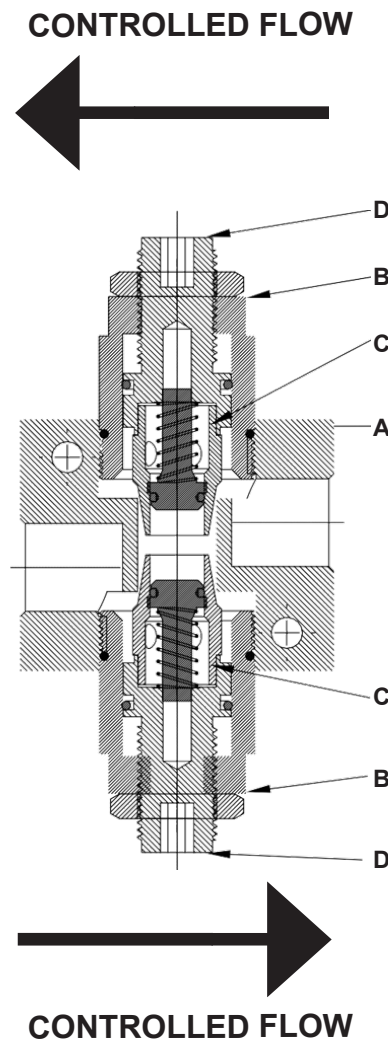
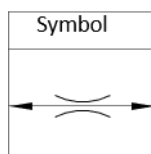
Fluid/Operating media	Compressed air and industrial gases Gases - Filtered lubricated or non-lubricated air, inert gas, sweet (Natural) gases. Liquids - Low pressure hydraulic, mineral oil or water.
Pipe size/Connections	1/4", 3/8", 1/2"
Pipe thread	NPT - Standard
Max working pressure	175 psi (12 bar)
Operating temperature for elastomers (ambient)	-60°C to +80°C (-76°F to +176°F)
Materials of construction:	
Body & Bonnet	SS316L, SS316 NACE compliance (MR 0175)
Spring	SS316
Seals (Elastomers)	Low Temp. Nitrile (LNBR): -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)

OPERATION:

- Adjusting the speed of actuator by opening the nozzle (C) slowly after having closed it completely.
- Loose of valve may cause unexpected sudden actuator extensions.
- Turning clockwise the adjustment screw (D) the quantity of flow passing through the regulator decrease.
- Turning the adjusting screw (D) counter-clock wise you increase the quantity of flow through the flow regulator.
- When Flow Control Regulator (Valve) is turned counter-clockwise it is open and cylinder speed increase.
- The Flow rate is adjusted in the direction indicated by the arrow, control the flow rate in both directions.

Bi-Directional Flow Regulator (Valve):

Bi-Directional Flow regulators are generally used to control the outflow of a media. A typical application is the speed control of an actuator. The flow rate is adjusted in the direction indicated by the arrow. Separate flow control in each direction.



MAINTENANCE:

WARNING: Installation, commissioning, disassembling as well as repair and maintenance must only be carried out by qualified specialized personnel with expertise and experience on pneumatic technology.

ASSEMBLY:

- Lubricate seals and threaded parts (except for the inlet/outlet port) with a light coat of high-quality silicone grease.
- Reassemble the unit according to the manufacturer’s guidelines.
- After maintenance, reapply operating pressure and power to the equipment. Conduct functional and leakage tests to ensure that the equipment is installed correctly.

REPAIR KITS:

SIZE	LOW TEMP. NITRILE
1/4"	971-636-010
3/8"	971-636-011
1/2"	971-636-012

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

