

4500 Ancillary Valves

1/4", 3/8", 1/2", 3/4", 1", NPT (BSP)

4500 SERIES

4500 ACCESSORIES

UNI-DIRECTIONAL FLOW REGULATORS • BI-DIRECTIONAL FLOW REGULATORS

General Description

Uni-directional

316 Stainless Steel in-line flow regulators for uni-directional operation (free flow return).

Bi-directional

316 Stainless Steel in-line flow regulators for bi-directional operation (separate flow control in each direction).

Operating Medium

Gases

Filtered lubricated or non-lubricated air, inert gas, sweet (natural) gases. Sour gas option available. (details on application)

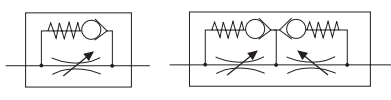
Liquids

Low pressure hydraulic, mineral oil or water.

Functional Symbols

Uni-directional

Bi-directional



Technical Data

Working Pressure

- 10 bar (145 psi)

Working Temperature

- -20°C to +70°C (-4°F to +158°F)

Low temperature version

- -50°C (-58°F) (optional)

Maximum Flow L/min

(SCFM) Cv(Kv)

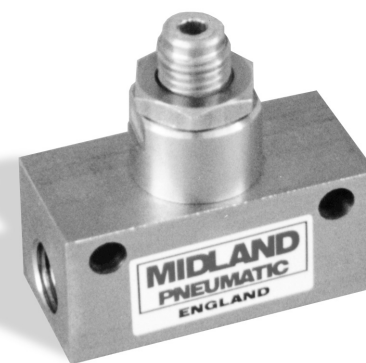
- 6 bar (87 psi), 1 bar (14.5 psi) differential

Uni-directional

- 1/4" 1000(35) -1.0(15.5)
- 3/8" 1680(59) -1.7(26)
- 1/2" 2520(89) -2.5(39)
- 3/4" 5428(192) -5.4(84)
- 1" 9820(347) -9.8(152)

Bi-directional

- 1/4" 620(22) -0.6(9.6)
- 3/8" 1290(45) -1.3(20)
- 1/2" 2000(71) -2.0(31)



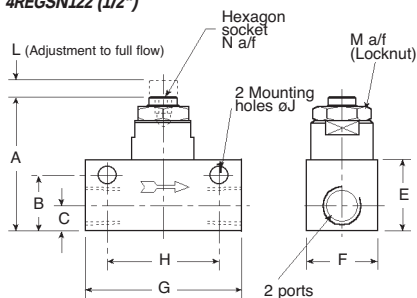
Construction Materials

- Stainless Steel AISI 316L to NACE MR-01-75 Body
- Stainless Steel AISI 316L to NACE MR-01-75 Internals
- 316 Stainless Steel Springs
- Nitrile Seals

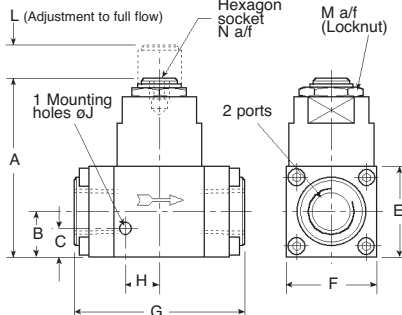
MODEL CODES, INSTALLATION DIMENSIONS mm (inches) and WEIGHT kg (lbs)

Uni-Directional Flow Regulators

2REGSN122 (1/4")
3REGSN122 (3/8")
4REGSN122 (1/2")

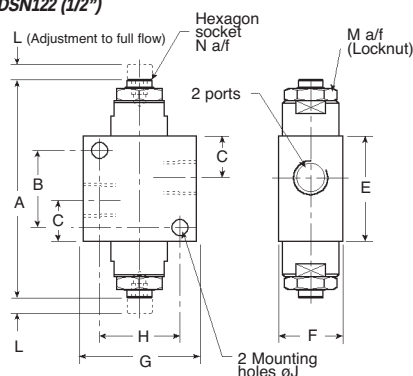


6REGSN122 (3/4")
8REGSN122 (1")



Bi-Directional Flow Regulators

2BIDSN122 (1/4")
3BIDSN122 (3/8")
4BIDSN122 (1/2")



Model Number	Ports	A	B	C	E	F	G	H	J	L	M	N	WEIGHT
Uni-Directional													
2REGSN122	1/4" NPT	48(1.89)	20(0.79)	9(0.35)	25.4(1.00)	25.4(1.00)	56(2.20)	40(1.57)	6.35(0.25)	6(0.24)	18(0.71)	5(0.20)	0.26(0.57)
3REGSN122	3/8" NPT	70(2.76)	29(1.14)	14.5(0.57)	35(1.38)	35(1.38)	76(2.99)	45(1.77)	6.35(0.25)	12(0.47)	23.3(0.92)	6(0.24)	0.75(1.65)
4REGSN122	1/2" NPT	70(2.76)	29(1.14)	13.5(0.57)	35(1.38)	35(1.38)	76(2.99)	45(1.77)	6.35(0.25)	12(0.47)	23.3(0.92)	6(0.24)	0.75(1.65)
6REGSN122	3/4" NPT	100(3.94)	16(0.63)	25.4(1.00)	50.8(2.00)	50.8(2.00)	95(3.74)	19(0.75)	6.35(0.25)	19(0.75)	30.5(1.20)	10(0.39)	1.75(3.86)
8REGSN122	1" NPT	125(4.92)	19(0.75)	31.75(1.25)	63.5(2.50)	63.5(2.50)	95(3.74)	24(0.94)	6.35(0.25)	19(0.75)	36(1.42)	12(0.47)	2.75(6.06)
Bi-Directional													
2BIDSN122	1/4" NPT	85(3.35)	28(1.10)	15.5(0.61)	40(1.57)	25.4(1.00)	44.5(1.75)	32(1.26)	6.35(0.25)	6(0.24)	18(0.71)	5(0.20)	0.43(0.95)
3BIDSN122	3/8" NPT	121(4.76)	35(1.38)	21(0.83)	51(2.00)	35(1.38)	63.5(2.50)	45(1.77)	6.35(0.25)	12(0.47)	23.3(0.92)	6(0.24)	1.40(3.09)
4BIDSN122	1/2" NPT	121(4.76)	35(1.38)	21(0.83)	51(2.00)	35(1.38)	63.5(2.50)	45(1.77)	6.35(0.25)	12(0.47)	23.3(0.92)	6(0.24)	1.40(3.09)