

GO REGULATOR, INC.

A division of CIRCOR International, Inc.



PR-5 Series High Flow Adjustable Pressure Reducing Regulator

The PR-5 Series pressure regulator is designed for service at high flows with good sensitivity and regulation. While the design was originated for gas systems, this valve is perfectly suitable for liquid systems that are compatible with the materials of construction. Also of interest is the fact that while being able to perform with moderately high flows, this valve also provides very good performance in flow ranges of only a few liters per minute.

This series is a variation of the time proven PR-1 Series which has been used for many applications in systems requiring stainless steel construction. The exact package size of the PR-1 has been retained making it convenient for the user to interchange these units if better control at high flow rates is required.

Features & Specifications

- High flow capability in compact size
- Minimum droop with large flow increases
- Bubble tight shutoff
- Stainless steel cap & adjusting screw provided with stainless steel unit
- Materials of construction stainless steel, brass, Teflon®, Viton®, Kalrez®, Buna, or EPR
- 20 micron inlet filter
- Operating temperatures up to +400° F (+204° C)
- Ideal for line regulator applications
- Teflon®/Viton® diaphragm standard up to 50 psig
- Inlet pressure 300 psig
- Adjustable outlet ranges 0–10, 0–25, 0–50, 0–100, & 0–250 psig
- C_v flow coefficient 0.20

Options

- Panel mount (requires 1 3/8" mounting hole)
- Extra ports
- Special welded connections
- Pressure gauges
- Captured vent

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PR-5 Series

High Flow Adjustable Pressure Reducing Regulator

How to Order

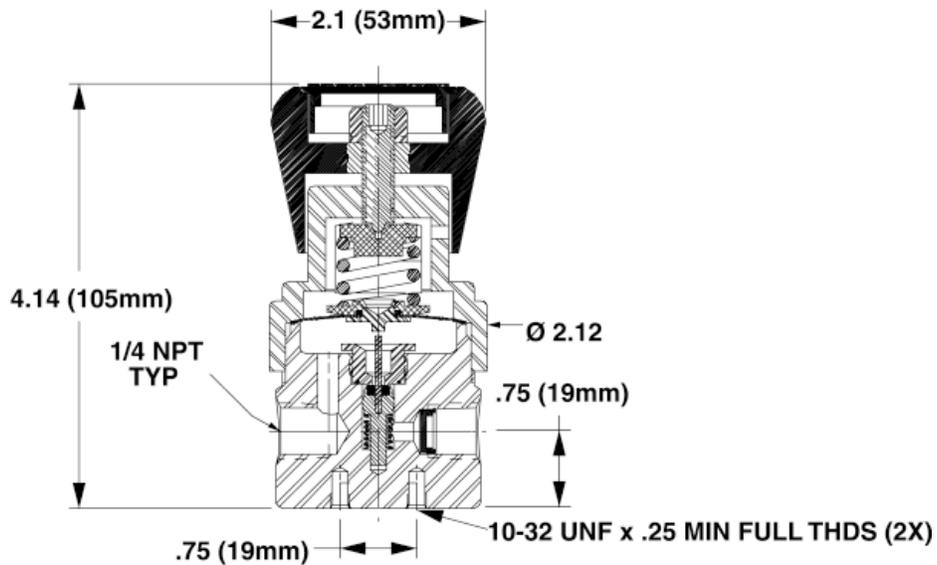
See page 3 for standard configurations. For additional configurations, consult the factory.
See page 4 for port locations.

Maximum Temperature & Operating Inlet Pressures

Seat Material	Maximum Temperature*	@	Maximum Operating Inlet Pressure
Viton®	400° F (204° C)	@	300 psig (2.07 MPa)
EPR	150° F (66° C)	@	300 psig (2.07 MPa)
Buna N	150° F (66° C)	@	300 psig (2.07 MPa)
Kalrez®	400° F (204° C)	@	300 psig (2.07 MPa)

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.
Viton®, Tefzel® and Teflon® are registered trademarks of Dupont Corporation.

Outline and Mounting Dimensions



Weight - 1.9 lbs (0.86kg)

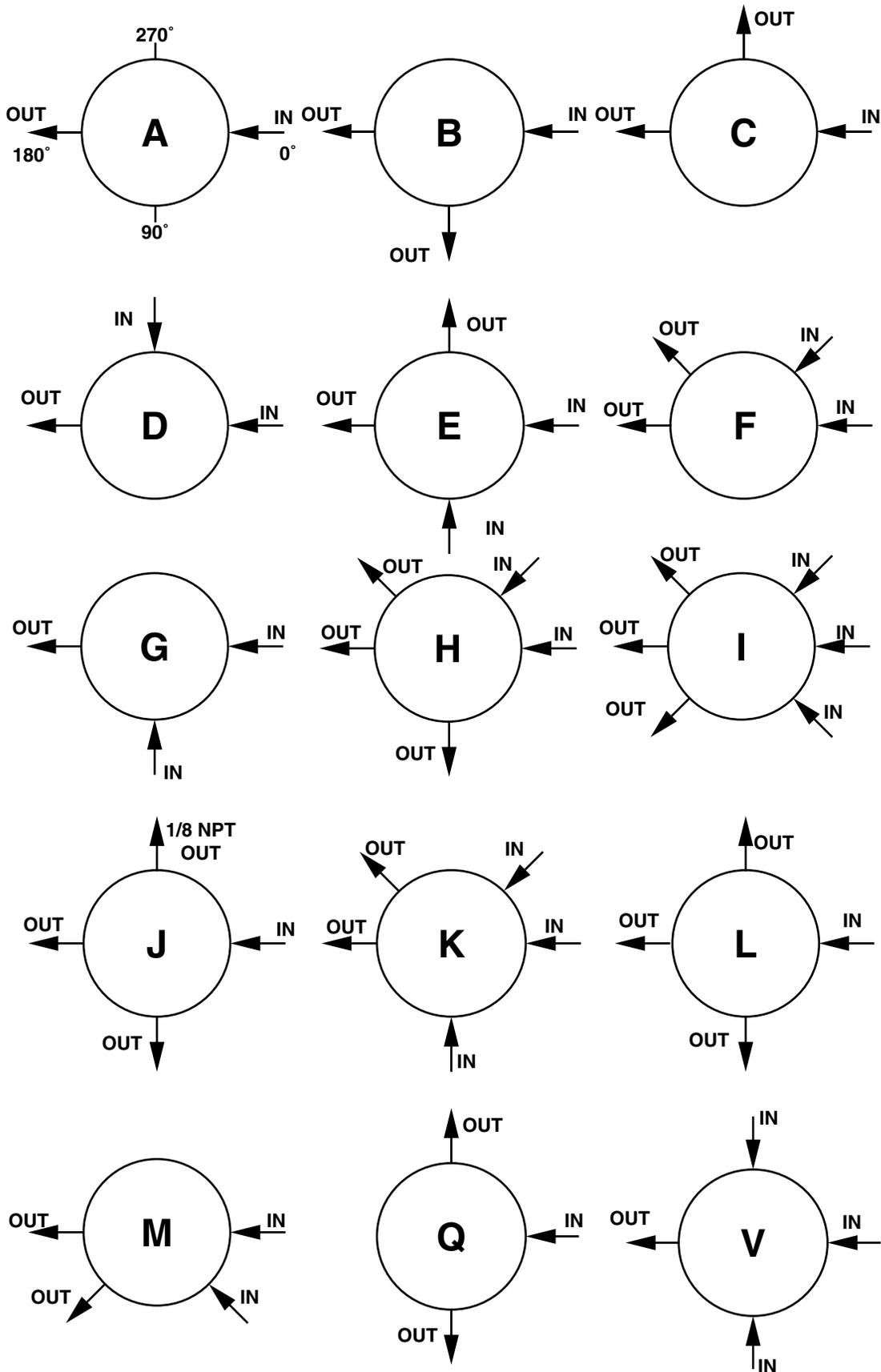
PR-5 Series - Pressure Reducing Regulator

Material of Body	
1	SS 316L
2	Brass
4	Monel
6	Hastelloy C
Port Configuration (see page 4) STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)	
Process port types (gauge port type, if specified)	
1	1/4" FNPT (1/4" FNPT Gauge Port)
2	1/4" Tube (1/4" Tube Gauge Port)
4	3/8" FNPT (1/4" FNPT Gauge Port)
0	1/8" FNPT (1/8" FNPT Gauge Port)
Surface Finish of Diaphragm Cavity	
1	<25 Ra, Standard
4	Filled
Seat Material	
D	Viton
E	EPR
J	Buna-N
K	Kalrez
Flow Coefficient (Cv)	
5	0.2
Outlet Range	
C	0 - 10 Psig
D	0 - 25 Psig
E	0 - 50 Psig
G	0 - 100 Psig
I	0 - 250 Psig
Diaphragm Type	
1	Standard Diaphragm
3	Self Relieving
4	Vacuum Assist Spring, Standard Diaphragm
7	Liquid Service
Diaphragm Facing / Backing	
1	Teflon / SS
2	Teflon / Viton
3	Teflon / EPR
4	Teflon / Buna-N
6	Tefzel Ring / SS
7	Viton / SS
8	Teflon / Inconel
0	Teflon / Hastelloy C
C	EPR / SS
D	EPR / Viton
I	Viton / Inconel
Cap Assembly	
1	Standard
4	Panel Mount
5	Captured Vent, Aluminum
8	Tamper Proof
A	Captured Vent, Tamper Proof, Aluminum
H	1/4" FNPT Dome Loaded
Optional Cap Finish	
1	Chrome Plated
2	Electroless Nickel Plated

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Material	Port Config.	Port Type	Cavity Finish	Seat Material	Flow (Cv)	Outlet Range	Diaphragm Type	Diaphragm Material	Cap Assembly	Cap Finish
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PORT LOCATIONS (SINGLE STAGE PRESSURE REGULATOR)



LOCATION OF PORTS FROM TOP VIEW