

GO REGULATOR, INC.

A division of CIRCOR International, Inc.



PR-2 Series Economy Brass Pressure Reducing Regulator

The PR-2 Series are compact brass body regulators designed for maximum flexibility in many classes of instrumentation service. Specifically designed for gas applications, this regulator is capable of accepting high pressures directly from cylinders and other high pressure, non-corrosive systems. It is ideally suited for carrier gas pressure regulation, yet it is economical enough to use in low-pressure air systems such as instrument cabinet air purge service.

Features & Specifications

- Gas or liquid service
- Brass (alloy 360) construction
- Stainless steel diaphragm with Teflon® lining
- Stainless steel poppet
- Better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- Bubble tight shutoff
- Outlet pressure ranges 0–10, 0–25, 0–50, 0–100, 0–250, 0–500 and 0–750 psig
- Operating temperatures -40° F (-40° C) to +175° F (+80° C)
- Inlet and outlet connection 1/4" FNPT
- C_v flow coefficients: 0.025, 0.06, 0.20, and 0.5 (0.06 standard)

Options

- 1/8" or 3/8" FNPT connections
- Panel mount (requires 1 3/8" mounting hole)
- Extra ports
- Pressure gauges

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PR-2 Series

Economy Brass Pressure Reducing Regulator

How to Order

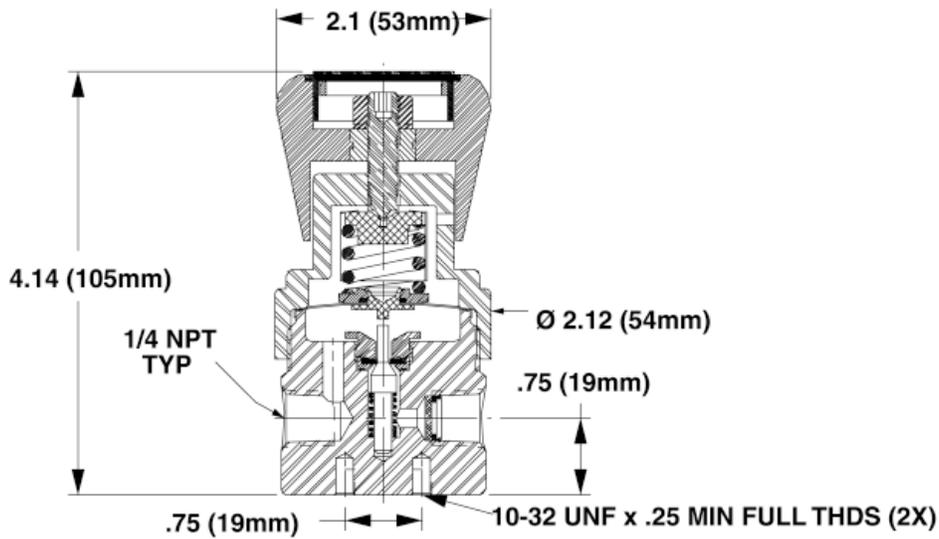
See page 3 for standard configurations. For additional configurations, consult the factory.
See page 4 for port locations.

Maximum Temperature & Operating Inlet Pressures

Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
High Density Teflon®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (Formerly Kel-F-81)	175° F (80° C)	@	3600 psig (24.82 MPa)
Polyimide	175° F (80° C)	@	3600 psig (24.82 MPa)
PEEK	175° F (80° C)	@	3600 psig (24.82 MPa)

Tefzel® and Teflon® are registered trademarks of Dupont Corporation.

Outline and Mounting Dimensions



Weight - 1.7 lbs (0.77 kg)

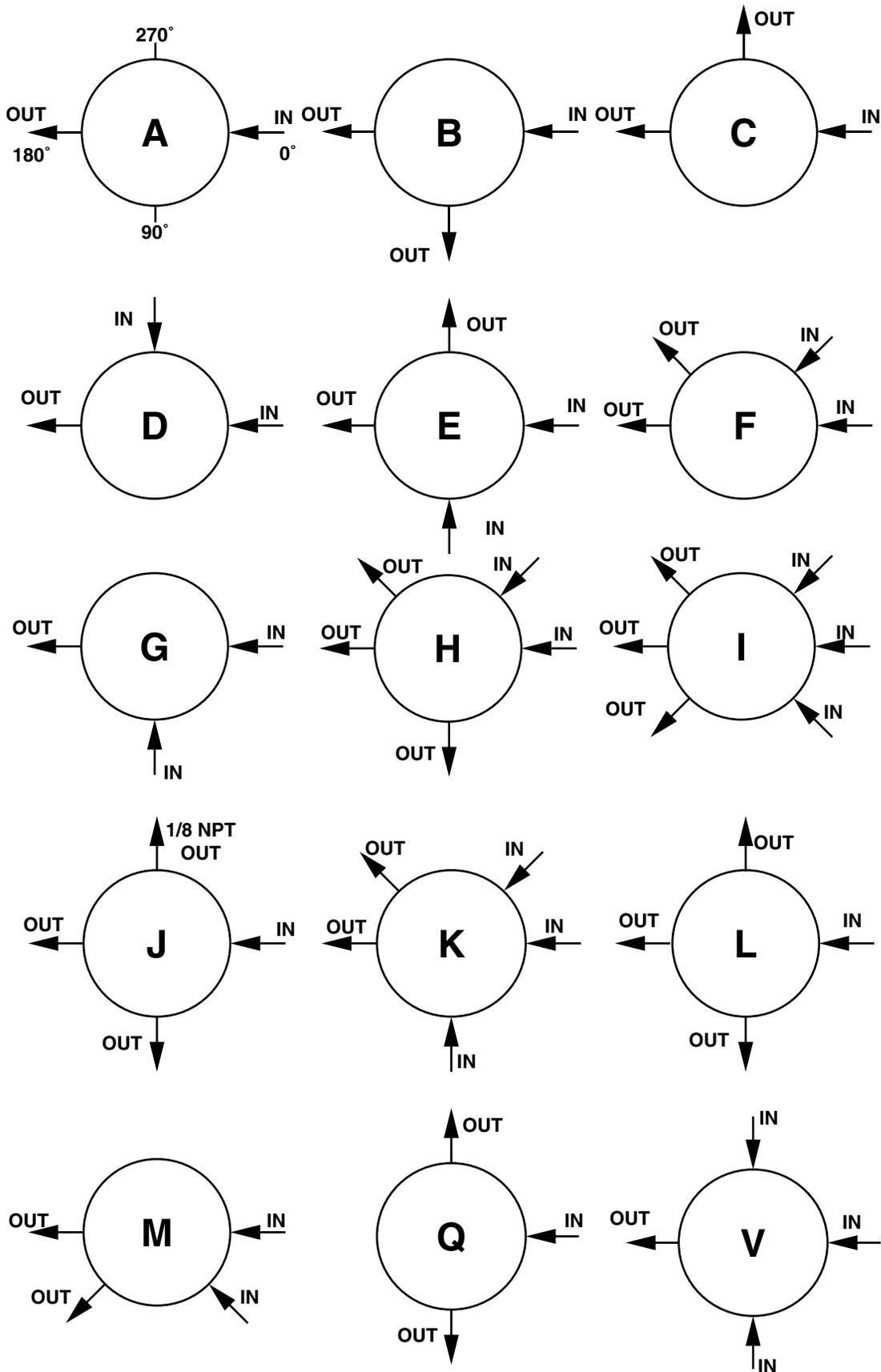
PR-2 Series - Pressure Reducing Regulator

Matl	Material of Body	
2	Brass	
8	Brass, Chrome Plated	
	Port Configuration (see page 4) STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)	
A		
	Process port types (gauge port type, if specified)	
1	1/4" FNPT (1/4" FNPT Gauge Ports)	
4	3/8" FNPT (1/4" FNPT Gauge Ports)	
0	1/8" FNPT (1/8" FNPT Gauge Ports)	
	Surface Finish of Diaphragm Cavity	
1	< 25 Ra, Standard	
	Seat Material	
A	Tefzel	
B	CF Teflon	
C	Polyimide	
H	PCTFE (formerly Kel-F 81)	
I	High Density Teflon	
Q	PEEK	
	Flow Coefficient (Cv)	
3	0.06	
5	0.2	
C	0.025	
H	0.5	
	Outlet Range	
C	0 - 10 Psig	
D	0 - 25 Psig	
E	0 - 50 Psig	
G	0 - 100 Psig	
I	0 - 250 Psig	
J	0 - 500 Psig	
W	0 - 750 Psig	
	Diaphragm Type	
1	Standard Diaphragm	
2	Diaphragm Attached Poppet	
3	Self Relieving	
4	Vacuum Assist Spring, Standard Diaphragm	
5	Vacuum Assist Spring, Diaphragm Attached Poppet	
6	Vacuum Assist Spring, Self Relieving	
7	Liquid Service	
	Diaphragm Facing / Backing	
1	Teflon / SS	
2	Teflon / Viton	
6	Tefzel Ring / SS	
	Cap Assembly	
1	Standard, Aluminum	
3	1" Panel Mount, Aluminum	
4	Panel Mount, Aluminum	
5	Captured Vent, Aluminum	
6	Captured Vent, Panel Mount, Aluminum	
8	Tamper Proof, Aluminum	
9	Fine Adjust, 1/2" Panel Mount, Aluminum	
0	Fine Adjust, 1 3/8" Panel Mount, Aluminum	
A	Captured Vent, Tamper Proof, Aluminum	
E	Tamper Proof, Panel Mount, Aluminum	
	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

PORT LOCATIONS (SINGLE STAGE PRESSURE REGULATOR)



LOCATION OF PORTS FROM TOP VIEW