

GO REGULATOR, INC.

A division of CIRCOR International, Inc.



PR-50 Series Diaphragm Type High Pressure Regulator

The PR-50 Series pressure regulator is designed to meet the demands for outlet pressures up to 2000 psig while maintaining superior corrosion protection.

For reliability in operation, this precision regulator features a stainless steel body (optional brass) which affords maximum corrosion resistance coupled with the ultimate in safety. The optional self-relieving feature provides an additional level in operational ease, as it allows for trapped downstream pressure to be safely vented to atmosphere through the bonnet.

To prolong regulator life, this unit is supplied with an integral inlet filter which protects the seat against any foreign contamination introduced by the upstream supply.

Features & Specifications

- Gas or liquid service
- Inlet pressure to 6000 psig
- Outlet pressure ranges 0–500, 0–1000, and 0–2000 psig
- 316L stainless steel or brass (alloy 360) construction
- 20 micron inlet filter
- Bubble tight shutoff
- Diaphragm material standard stainless steel, nylon or Teflon®
- Flow coefficients (C_v) of 0.025, 0.06, and 0.20

Applications

- R & D systems
- Cylinder gas regulation
- Sampling systems
- Airline charging carts
- Pilot plants
- Offshore drillings

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PR-50 Series

Diaphragm Type High Pressure Regulator

How to Order

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

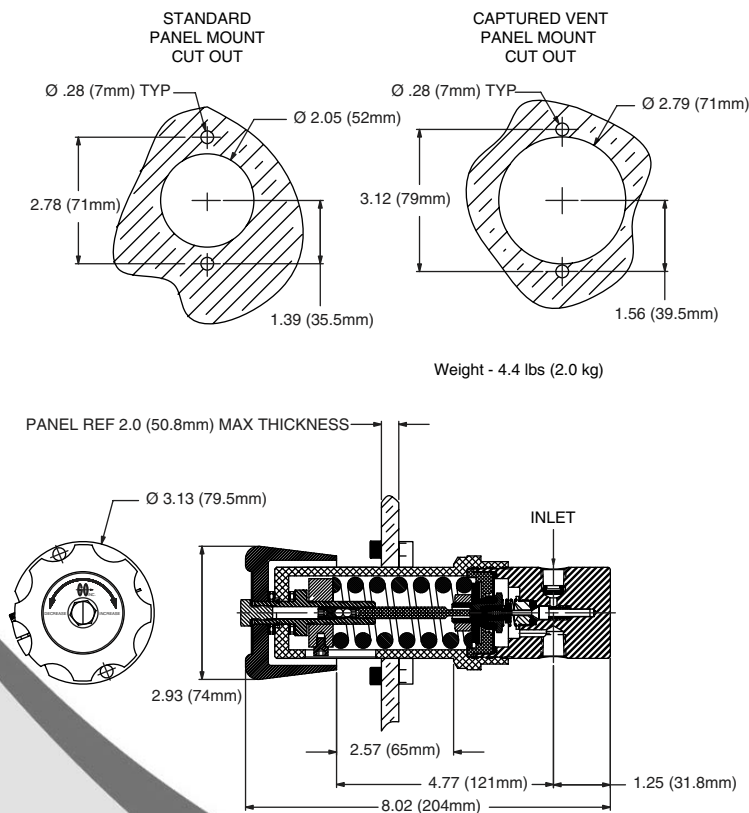
Maximum Temperature & Operating Inlet Pressures

Nylon Diaphragm Backing			
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)	@	6000 psig (41.37 MPa)
Polyimide	175° F (80° C)	@	6000 psig (41.37 MPa)
PEEK	175° F (80° C)	@	6000 psig (41.37 MPa)

Teflon® Diaphragm Backing			
Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
Teflon®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (formerly Kel-F 81)	175° F (80° C)	@	6000 psig (41.37 MPa)
Polyimide	350° F (176° C)	@	6000 psig (41.37 MPa)
PEEK	350° F (176° C)	@	6000 psig (41.37 MPa)

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

Outline and Mounting Dimensions



For flow curve charts, go to www.goreg.com.

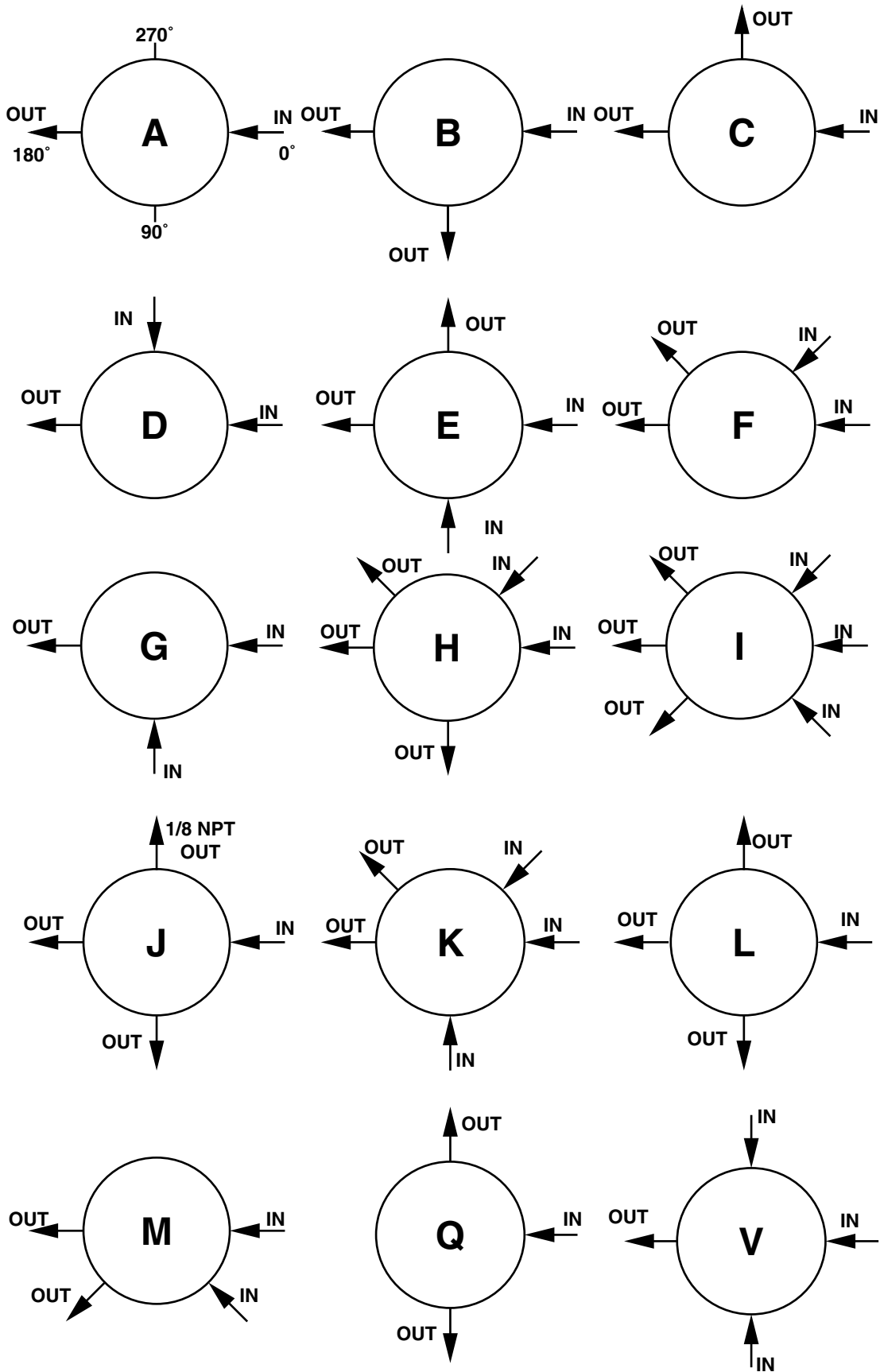
PR-50 Series - Pressure Reducing Regulator

Material of Body				
1	SS 316L			
2	Brass			
4	Monel			
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)			
2	1/4" Tube (1/4" Tube Gauge Ports)			
4	3/8" FNPT (1/4" FNPT Gauge Ports)			
7	AN 10050-4 (1/4" FNPT Gauge Ports)			
8	SAE J514 (1/4" FNPT Gauge Ports)			
9	M/S 33649 (1/4" FNPT Gauge Ports)			
Surface Finish of Diaphragm Cavity				
1	<25 Ra			
Seat Material				
A	Tefzel			
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			
Outlet Range				
J	0 - 500 Psig			
K	0 - 1000 Psig			
L	0 - 2000 Psig			
Diaphragm Type				
1	Non Self Relieving			
3	Self Relieving			
Diaphragm Facing / Backing Material				
	Facing	Backing	O-Rings	Actuator
1	SS	Nylon	Viton	SS
2	Nylon	Nylon	Teflon	SS
4	SS	Nylon	Viton	SS
5	Nylon	Nylon	Teflon	Monel
H	None	Nylon	Viton	SS
Cap Assembly				
1	Standard, Aluminum			
4	Panel Mount, Aluminum			
5	Captured Vent, Aluminum			
6	Captured Vent, Panel Mount, Aluminum			
F	S.S.			
V	Captured Vent, Panel Mount, S.S.			
W	Panel Mount, S.S.			

PR50 -

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



LOCATION OF PORTS FROM TOP VIEW