GO REGULATOR, INC.
A division of CIRCOR International, Inc.

PR-56 Series

High Pressure Brass Regulator (6,000 psig Inlet)

To meet the demands for the safe reduction of inlet pressures up to 6,000 psig, GO Regulator has designed the PR-56 Series regulator. This precision regulator features a piston sensing design which provides the operator with low adjusting torque requirements when setting the outlet pressure.

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.

Features & Specifications

- Gas or liquid service
- Brass (alloy 360) construction
- Better than 25 Ra finish in diaphragm cavity
- Stainless Steel spring loaded piston sensor
- 20 micron filter
- Bubble tight shutoff
- Inlet pressure maximum 6,000 psig
- Outlet pressure ranges are 0–250, 0–500, 0–750, 0–1000, 0–2000, 0–4000, and 6000 psig
- C_v flow coefficient 0.05 or 0.2

Options

- Gauges and CGA fittings for cylinder gas application
- Self relieving and captured vent
- 3/8″ FNPT, 1/4″ AN 10050-4, 1/4″ SAE J514 or 1/4″ MS 33649 ports

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PR-56 Series

High Pressure Brass Regulator (6,000 psig Inlet)

How to Order

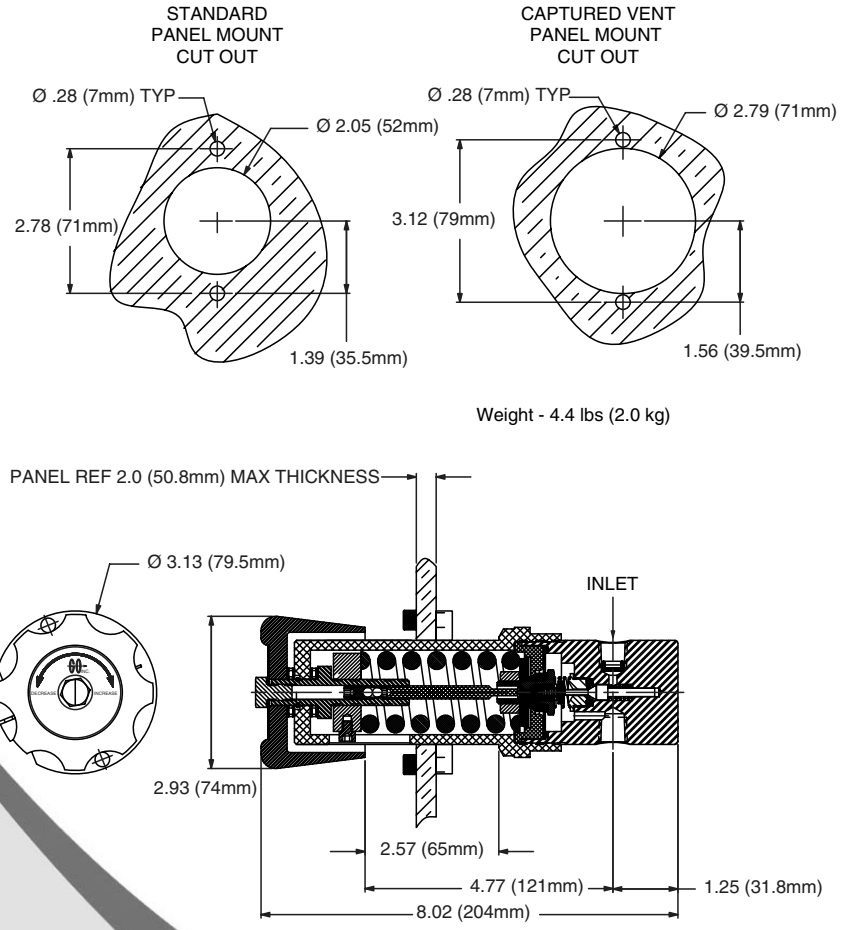
See page 3 for standard configurations. For additional configurations, consult the factory.
See page 4 for port locations.

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)	@	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)

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

Outline and Mounting Dimensions



For flow curve charts, go to www.goreg.com/flow_PR-56.htm.

PR-56 Series - Pressure Reducing Regulator

Material of Body

2	Brass

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)
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)
F	1/4" Aminco (1/4" FNPT Gauge Ports)

Surface Finish of Diaphragm Cavity

1	<25 Ra
5	<25 Ra with 10-32 Mounting Holes

Seat Material

A	Tefzel
C	Polyimide
H	PCTFE (formerly Kel-F 81)
Q	PEEK

Flow Coefficient (Cv)

2	0.05
5	0.2

Outlet Range

I	0 - 250 Psig
J	0 - 500 Psig
W	0 - 750 Psig
K	0 - 1000 Psig
L	0 - 2000 Psig
N	0 - 4000 Psig
O	0 - 6000 Psig

Piston Type

1	Non Self Relieving
3	Self Relieving

Piston Material

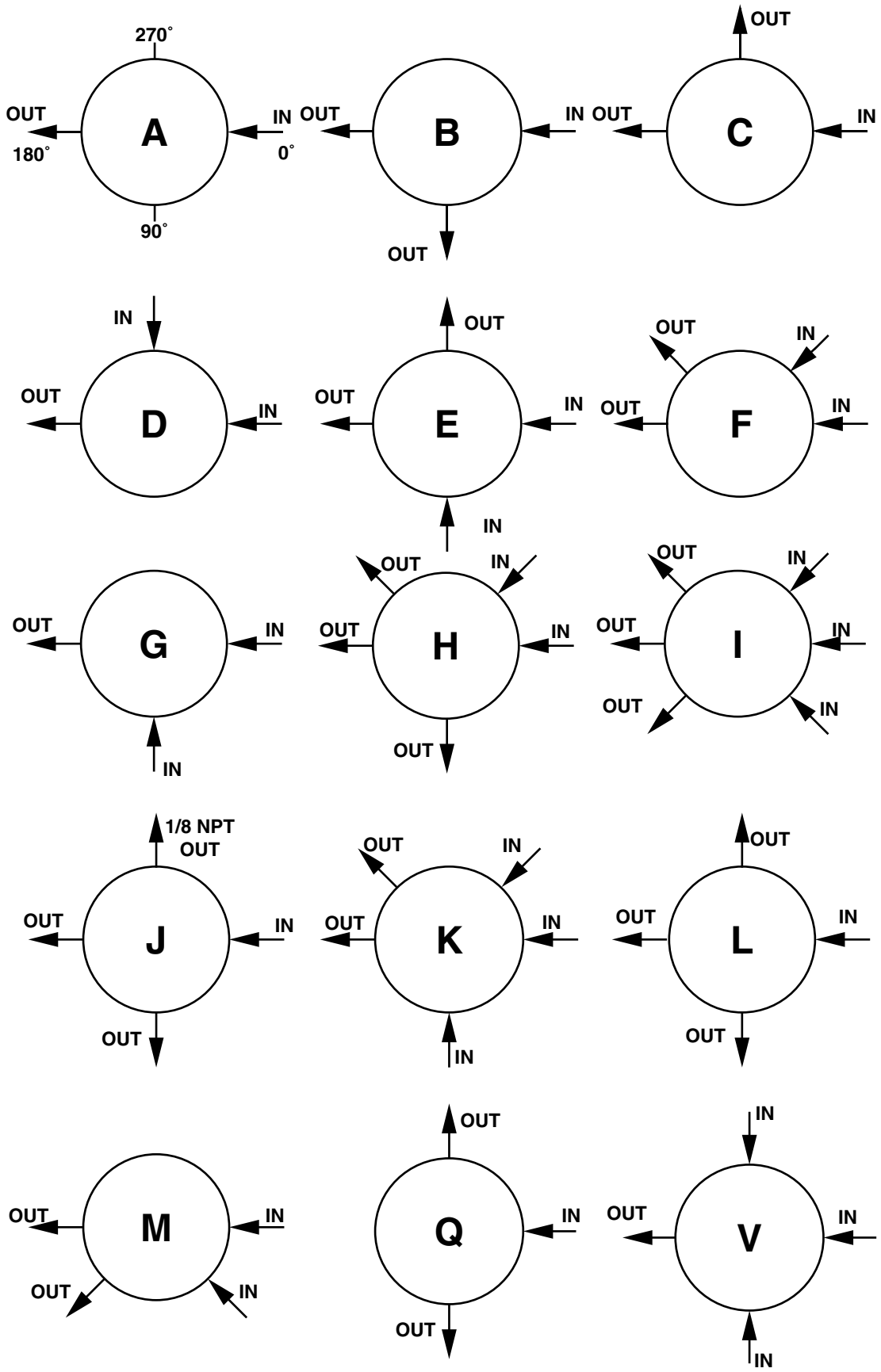
4	SS / Teflon Cavity O-Ring
5	SS / Viton Cavity O-Ring

Cap Assembly

1	Standard, Aluminum
4	Panel Mount, Aluminum
5	Captured Vent, Aluminum
F	S.S.
V	Captured Vent, Panel Mount, S.S.
W	Panel Mount, S.S.

P R 5 6 -										
	Material	Port Config.	Port Style	Cavity Finish	Seat Material	Flow (Cv)	Control Range	Piston Type	Piston Material	Cap Assembly

PORT LOCATIONS (SINGLE STAGE PRESSURE REGULATOR)



LOCATION OF PORTS FROM TOP VIEW