

GO REGULATOR, INC.

A division of CIRCOR International, Inc.



PR-59 Series High Pressure / High Flow Pressure Reducing Regulator

Designed for low and high pressures up to 4000 psig inlet, the PR-59 Series pressure reducing regulator controls high flow with its C_v flow coefficient of 1.2. Though normally supplied without self-relieving capability, this feature can be added as an option.

While primarily designed for use with gas streams, the PR-59 can be used with virtually any liquid systems that are compatible with the seals. A large size piston sensor gives good sensitivity of control even at low outlet pressures and the Kel-F valve seat assembly gives normal bubble tight shutoff.

Features & Specifications

- Stainless Steel (316L) and brass body construction
- Inlet pressure capability up to 4000 psig
- Outlet control ranges from 250 psig up to 4000 psig
- Optional self-relieving feature
- Inlet and outlet ports of 1/2" or 3/4" FNPT with 1/4" FNPT gauge ports optional
- Balanced poppet valve design for constant pressure control
- Viton® seals (other elastomers optional)
- PCTFE seat
- C_v flow coefficient is 1.2
- Operating temperatures of -40° F (-40° C) to +175° F (+80° C)

2301 Wardlow Circle
Corona, CA 92880
tel 909.270.6200
fax 909.270.6201
www.goreg.com
sales@goreg.com

PR-59 Series

High Pressure / High Flow Pressure Reducing Regulator

How to Order

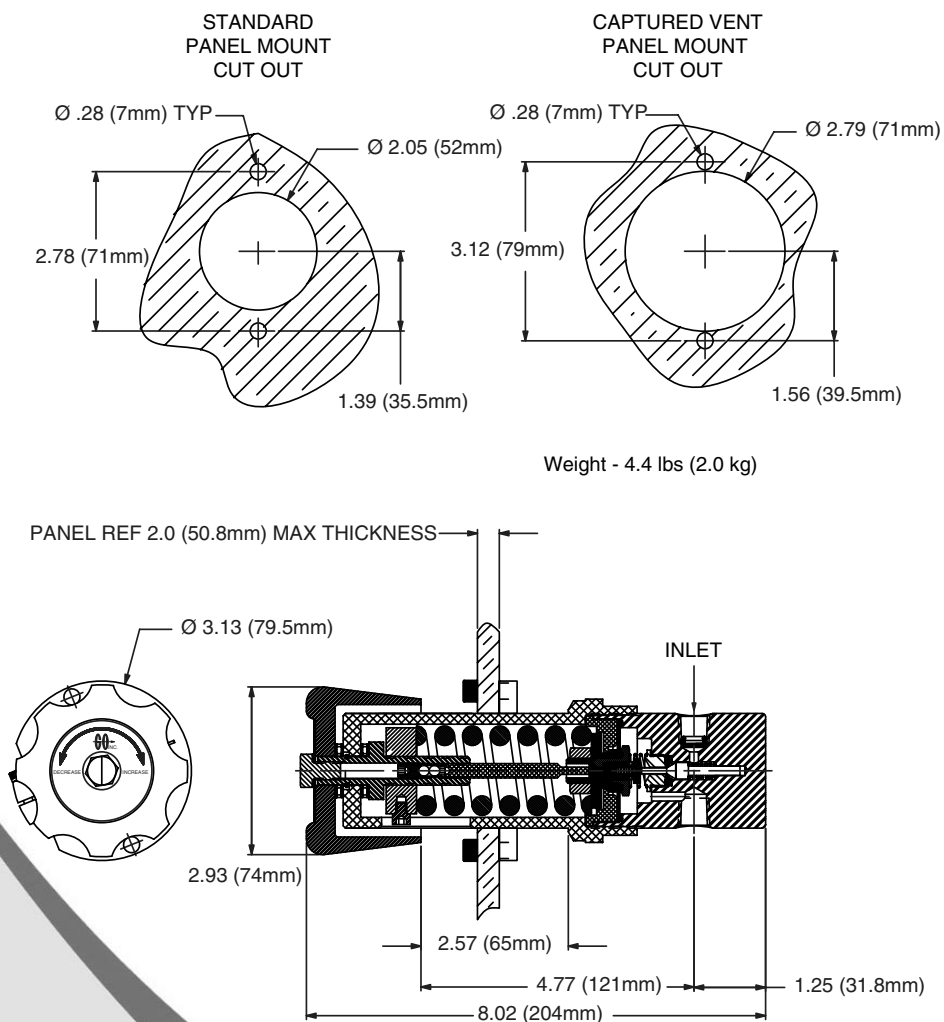
See page 3 for standard configurations. For additional configurations, consult the factory.
See page 4 for port configurations.

Maximum Temperature & Operating Inlet Pressures

Seat Material	Maximum Temperature	@	Maximum Operating Inlet Pressure
PCTFE (formerly Kel-F 81)	175° F (80° C)	@	4000 psig (27.58 MPa)
Teflon®	150° F (66° C)	@	1000 psig (6.90 MPa)

Viton® and Teflon® are trademarks of Dupont Corporation.

Outline and Mounting Dimensions



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

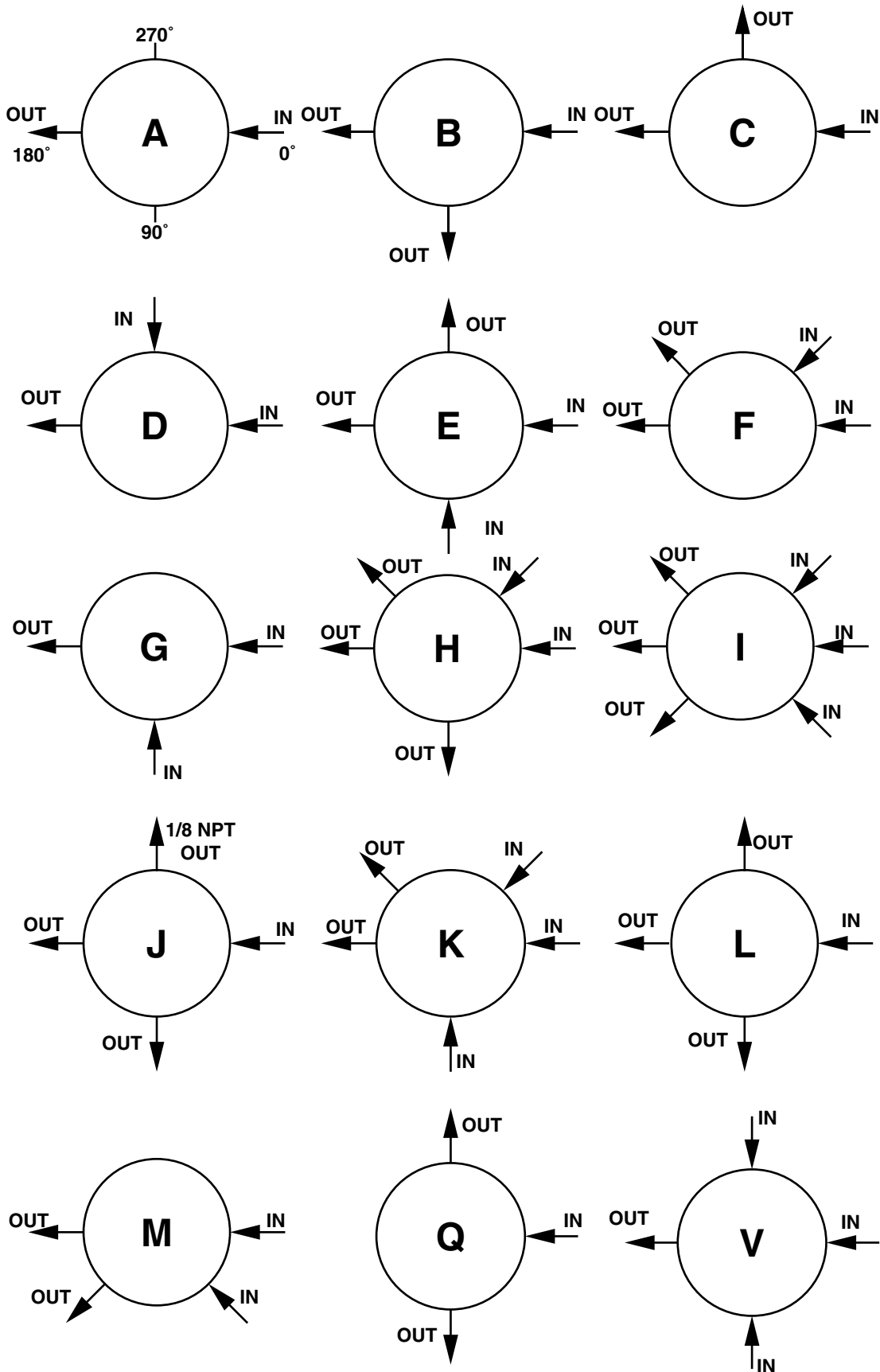
PR-59 Series - Pressure Reducing Regulator

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)	
5	1/2" FNPT (1/4" FNPT Gauge Ports)
A	3/4" FNPT (1/4" FNPT Gauge Ports)
B	3/4" ISO 7 Parallel (1/4" FNPT Gauge Ports)
Surface Finish of Diaphragm Cavity	
1	<25 Ra
Seat Material	
H	Kel-F
I	Teflon (0 - 1000 Psig Max. Inlet)
Flow Coefficient (Cv)	
9	1.2
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
Piston Type	
1	Non Self Relieving
3	Self Relieving
Piston Material	
5	Stainless Steel
B	Monel
Cap Assembly	
1	Standard, S.S.
4	Panel Mount, S.S.
5	Captured Vent, S.S.
6	Captured Vent, Panel Mount, S.S.
9	Plastic Knob, S.S.
A	Captured Vent, Plastic Knob, S.S.
B	Panel Mount, Plastic Knob, S.S.

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



LOCATION OF PORTS FROM TOP VIEW