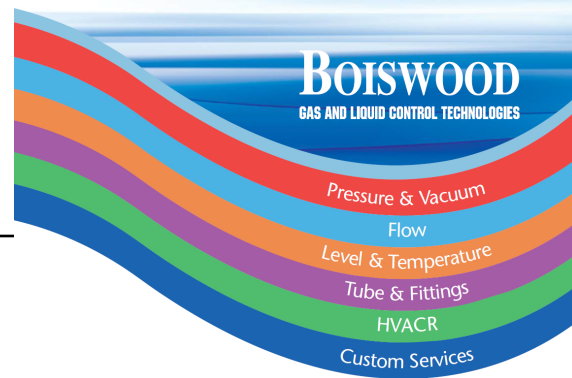


GO REGULATOR

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 Cv 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

- 316L stainless steel, brass and Monel® 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 ½" or ¾" FNPT with ¼" FNPT gauge ports optional
- Balanced poppet valve design for constant pressure control
- Viton® seals (other elastomers optional)
- PCTFE seat
- Cv flow coefficient is 1.2
- Operating temperatures of -40° F to +175° F (-40° C to +80° C)

pressure regulators

GO Regulator

405 Centura Court • PO Box 4866 • Spartanburg, SC 29303

Phone (864) 574-7966 Fax (864) 574-5608

www.goreg.com • sales@goreg.com

PR-59 Series

How to Order

PR59 –

BODY MATERIAL

1

316L stainless steel

2

Brass

4

Monel®

PORT CONFIGURATION

A

Standard

For more port configurations, see page 35

PROCESS PORT TYPES

(GAUGE PORT TYPES, IF SPECIFIED)

5

½" FNPT (¼" FNPT gauge ports)

A

¾" FNPT (¼" tube gauge ports)

B

¾" ISO-7 parallel (¼" FNPT gauge ports)

SURFACE FINISH OF DIAPHRAGM CAVITY

1

< 25 Ra

SEAT MATERIAL

H

PCTFE (formerly Kel-F® 81)

I

Teflon® (0–1000 psig maximum inlet)

FLOW COEFFICIENT (Cv)

9

1.2

CAP ASSEMBLY

1

Standard, stainless steel

4

Panel mount, stainless steel

5

Captured vent, stainless steel

6

Captured vent, panel mount, stainless steel

9

Plastic knob, stainless steel

A

Captured vent, plastic knob, stainless steel

B

Panel mount, plastic knob, stainless steel

PISTON MATERIAL

5

Stainless steel

B

Monel®

PISTON TYPE

1

Non-self-relieving

3

Self-relieving

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

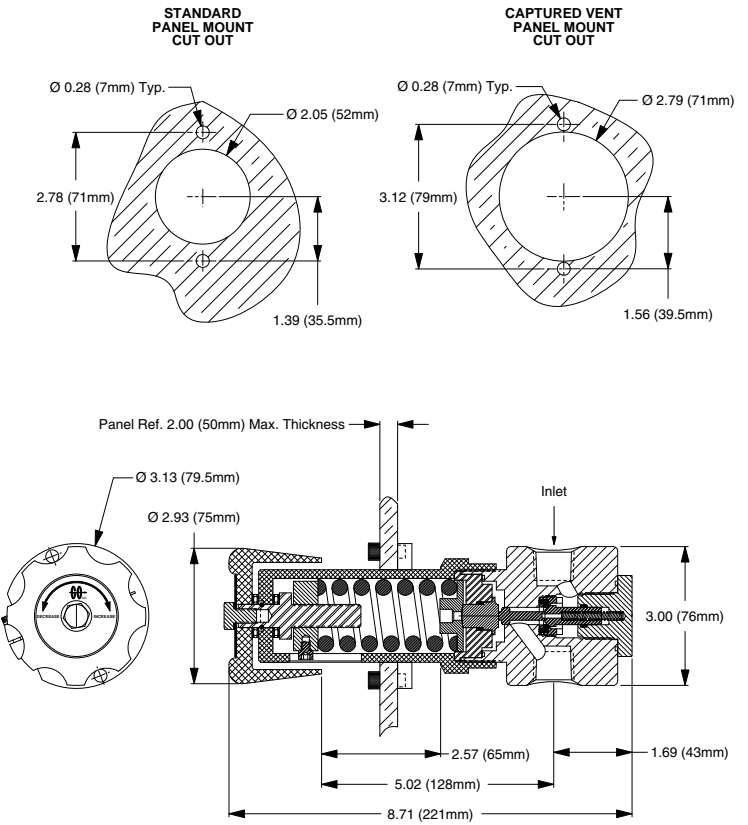
NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at www.gore.com or contact the factory.

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)

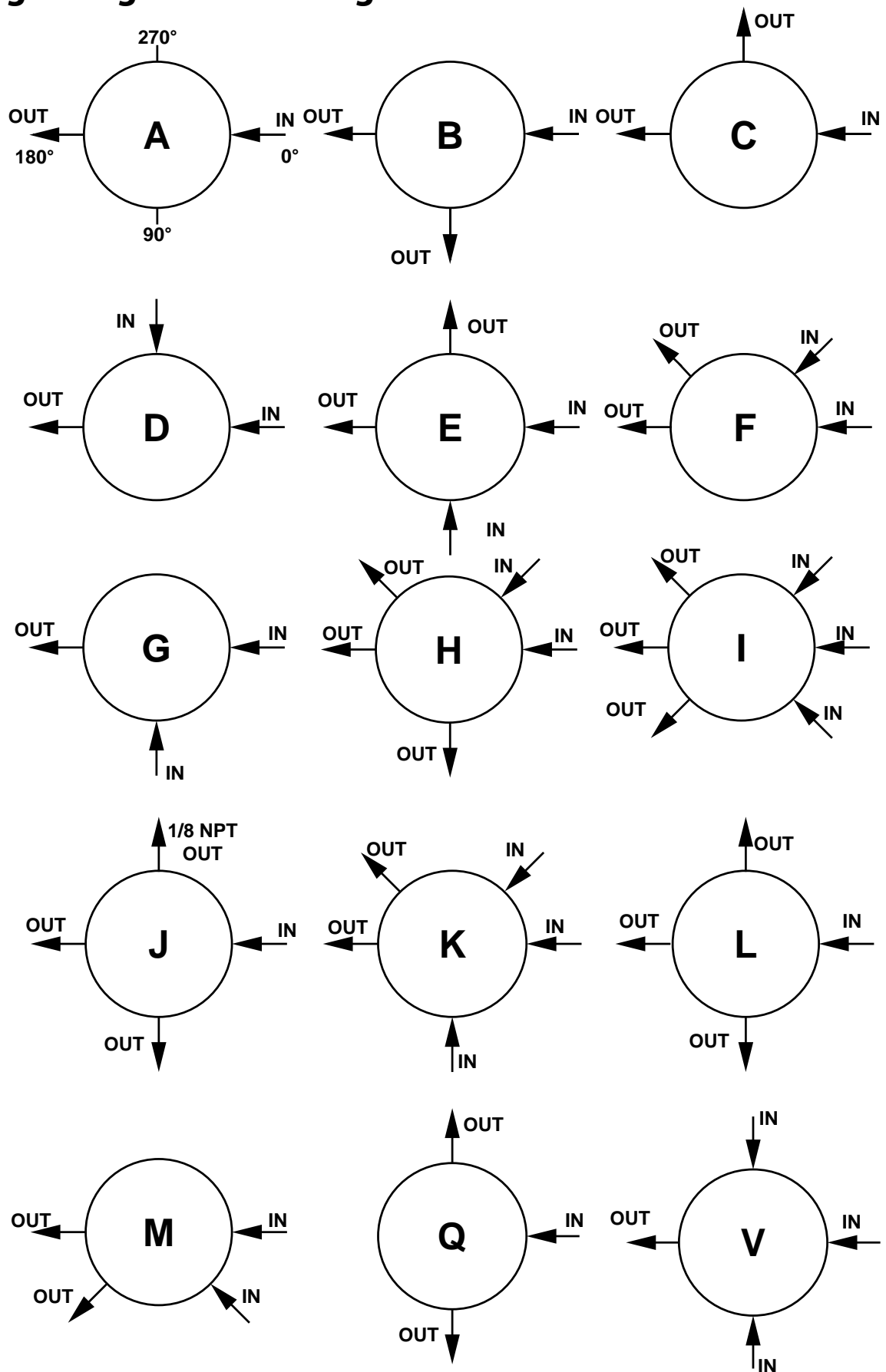
Outline and Mounting Dimensions

Weight = 4.4 lbs (2.0kg)



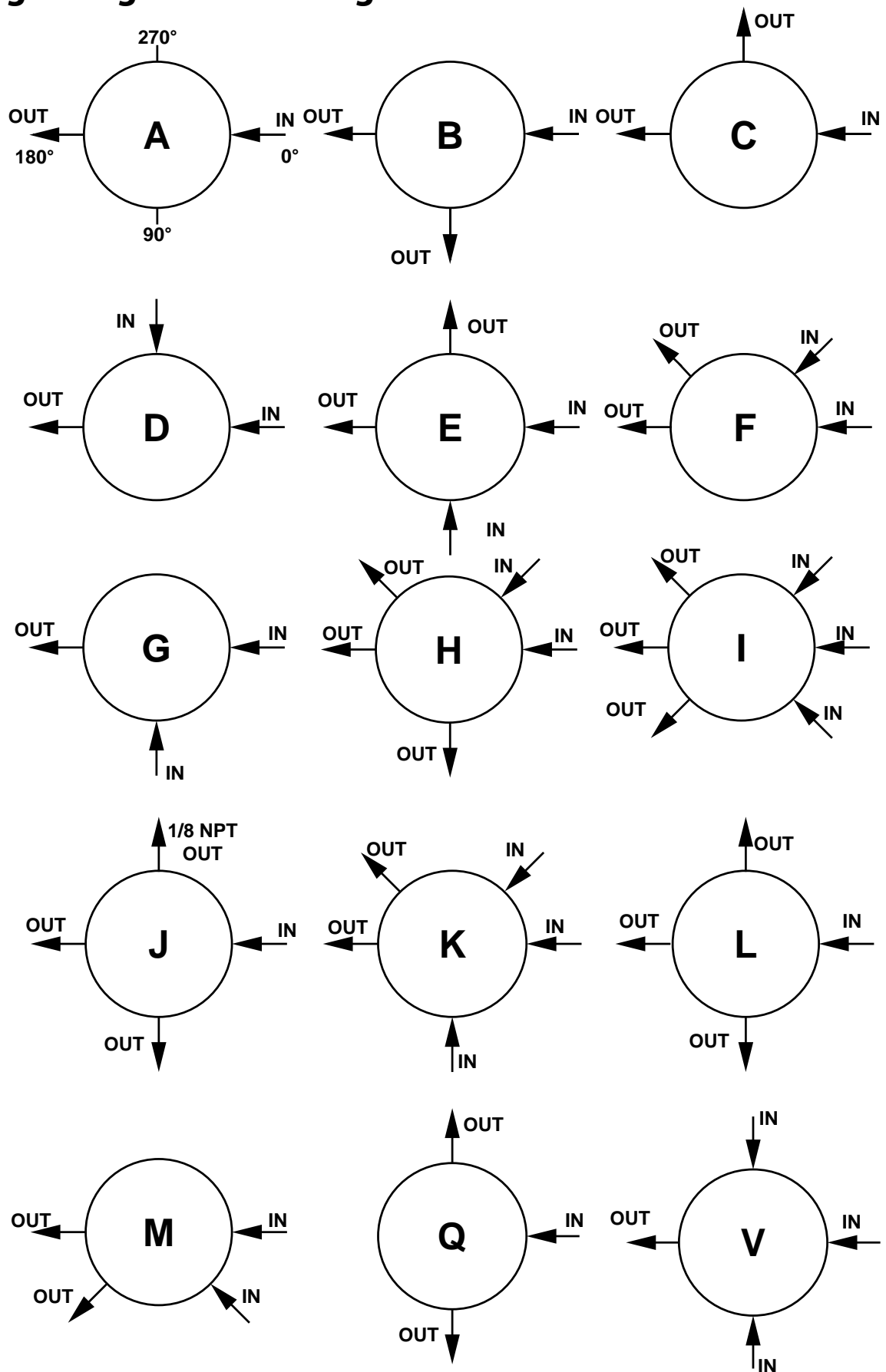
Kel-F® is a registered trademark of 3M Company.
Viton® is a registered trademark of DuPont Dow Elastomers.
Monel® is a registered trademark of Special Metals Corporation.
Teflon® is a registered trademark of the DuPont Company.

Porting Configurations for Single Stage Pressure Regulators



LOCATION OF PORTS FROM
TOP VIEW

Porting Configurations for Single Stage Pressure Regulators



LOCATION OF PORTS FROM
TOP VIEW