

GO REGULATOR

CPR-1 Series

Compact Stainless Steel Pressure Reducing Regulator



The CPR-1 Series is a compact pressure regulator with most of the same internal design features employed in our time proven PR-1 Series. This regulator was designed to provide optimum performance as a "lecture bottle regulator" for pressure control in any application where a small size and low internal volume are required. The low internal volume allows more rapid purging in analytical instrumentation and semiconductor doping gas applications.

Features & Specifications

- Internal dead volume less than 4cc
- Gas or liquid service
- 316L stainless steel body
- Stainless steel diaphragm
- 40 micron inlet filter
- Bubble-tight shutoff
- Outlet pressure 0–10, 0–25, 0–50, 0–100, 0–250, 0–500* and 0–750*
- Cv flow 0.025, 0.06, and 0.20
- Operating temperatures -40° F to +500° F (-40° F to +260° C)
- Inlet/outlet connections 1/8" FNPT

** not with Viton®-backed diaphragm assembly*

Options

- Panel mount (requires 1 3/8" mounting hole)
- Special welded connections
- Pressure gauges
- Captured vent

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

BOISWOOD
GAS AND LIQUID CONTROL TECHNOLOGIES

Pressure & Vacuum

Flow

Level & Temperature

Tube & Fittings

HVACR

Custom Services

pressure regulators

How to Order

CPR1 –

BODY MATERIAL

- 1** 316L stainless steel

PORT CONFIGURATION

- A** Standard

For more port configurations, see page 35

PROCESS PORT TYPES

(GAUGE PORT TYPES, IF SPECIFIED)

- 0** 1/8" FNPT (1/8" FNPT gauge ports), standard

SURFACE FINISH OF DIAPHRAGM CAVITY

- 1** < 25 Ra, standard

SEAT MATERIAL-

- A** Tefzel®
C Polyimide
H PCTFE (formerly Kel-F® 81)
I High density PTFE
Q PEEK™

FLOW COEFFICIENT (Cv)

- | | |
|----------|-------|
| 3 | 0.06 |
| 5 | 0.2 |
| C | 0.025 |

OUTLET RANGE

- A** 1–30 psig
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

-CAP ASSEMBLY

- 1 Standard, aluminum
- 4 Panel mount, aluminum
- 5 Captured vent, aluminum
- 7 Captured vent, stainless steel
- 8 Tamper-proof, aluminum
- 9 Fine adjust, 1/2" panel mount, aluminum
- 0 Fine adjust, 1 3/8" panel mount, aluminum
- D Captured vent, tamper-proof, stainless steel

**-DIAPHRAGM FACING/BACKING/
O-RING MATERIAL**

- 1 Tefzel® ring/stainless steel/PTFE
- 2 PTFE/Viton®/Viton®
- 3 PTFE/Viton®/PTFE
- 4 PTFE/stainless steel/Viton®
- 5 Tefzel® ring/stainless steel/Viton®
- 6 Tefzel® ring/Inconel®/PTFE
- 7 Tefzel® ring/Inconel®/Viton®

- **DIAPHRAGM TYPE**

- 1 Standard, Nylon dia. slip ring
(170° F maximum temperature)
- 2 Standard, Polyimide dia. slip ring
(high temperature service)

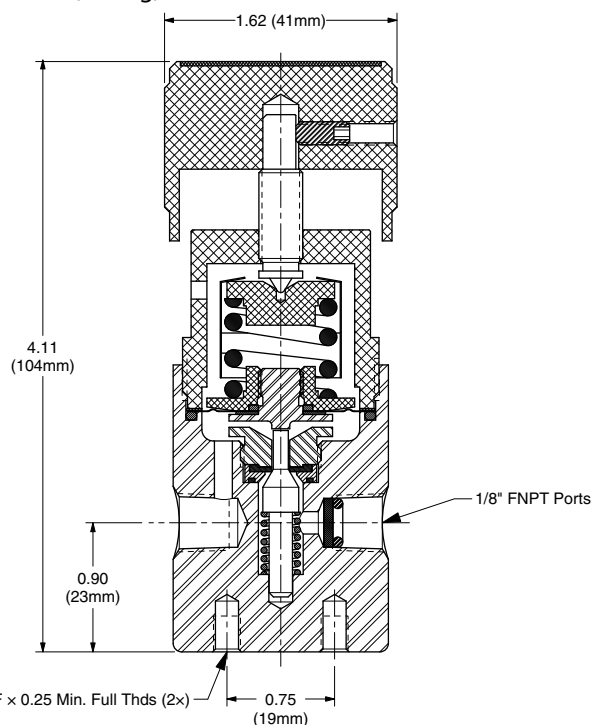
NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at www.goreg.com or contact the factory.

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 PTFE	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (formerly Kel-F® 81)	175° F (80° C)	@	6000 psig (41.37 MPa)
Polyimide	500° F (260° C)	@	3600 psig (24.82 MPa)
Polyimide	175° F (80° C)	@	6000 psig (41.37 MPa)
PEEK™	500° F (260° C)	@	3600 psig (24.82 MPa)
PEEK™	175° F (80° C)	@	6000 psig (41.37 MPa)

Outline and Mounting Dimensions

Weight = 1.1 lbs (0.50kg)



Viton® is a registered trademark of DuPont Dow Elastomers.

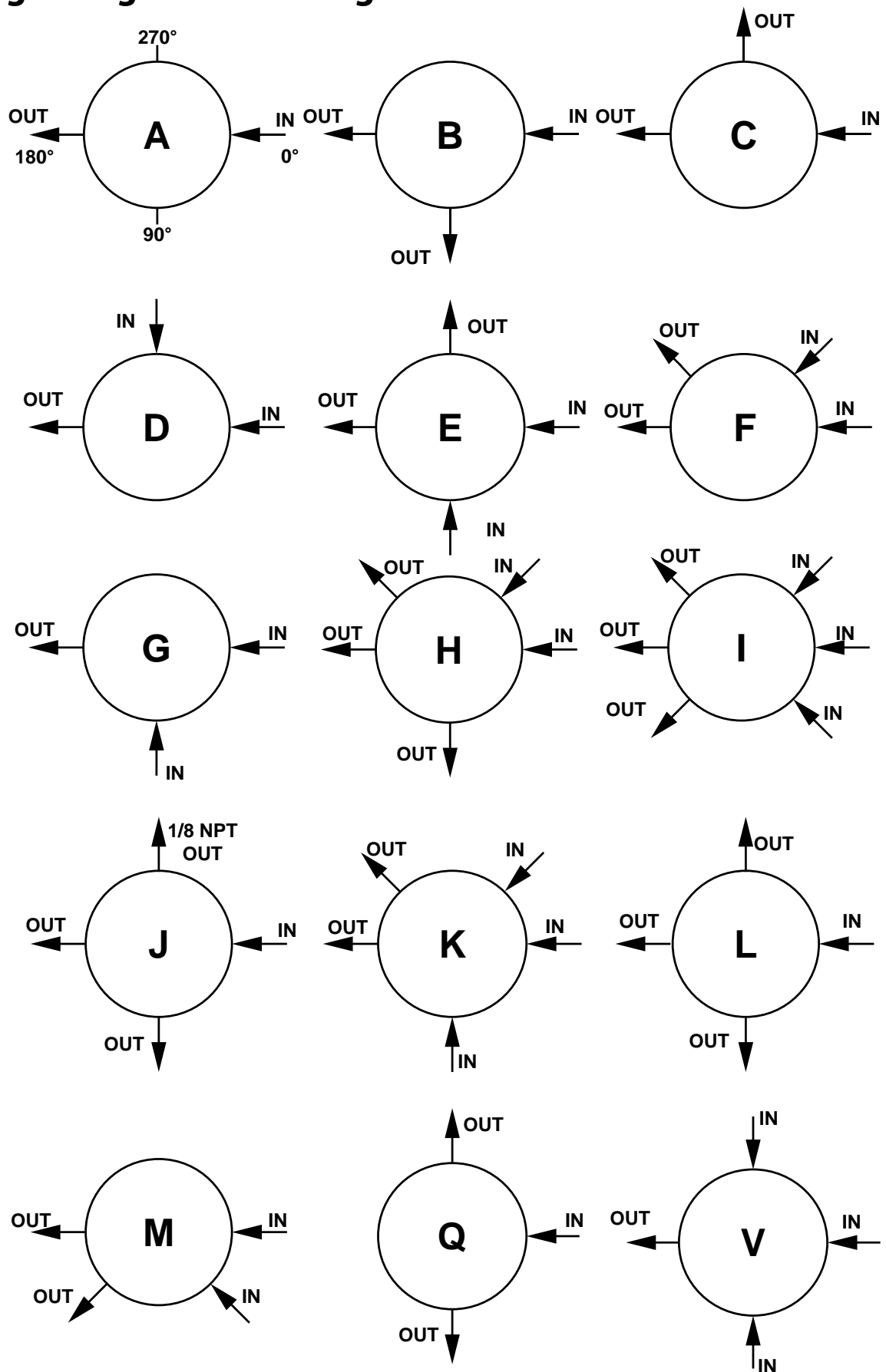
Tefzel® is a registered trademark of the DuPont Company.

Kel-F® is a registered trademark of 3M Company.

PEEK™ is a trademark of Victrex PLC.

Inconel® is a registered trademark of Special Metals Corporation.

Porting Configurations for Single Stage Pressure Regulators



LOCATION OF PORTS FROM
TOP VIEW