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 ⅛″ FNPT

** not with Viton®-backed diaphragm assembly*

Options

- Panel mount (requires 1⅜″ mounting hole)
- Special welded connections
- Pressure gauges
- Captured vent

pressure regulators

GO Regulator
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CPR-1 Series

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** ⅛″ FNPT (⅛″ 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 Teflon®
- **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

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

DIAPHRAGM FACING/BACKING/ O-RING MATERIAL
- **1** Tefzel® ring/stainless steel/Teflon®
- **2** Teflon®/Viton®/Viton®
- **3** Teflon®/Viton®/Teflon®
- **4** Teflon®/stainless steel/Viton®
- **7** Tefzel® ring/stainless steel/Viton®
- **8** Tefzel® ring/Inconel®/Teflon®
- **H** Tefzel® ring/Inconel®/Viton®

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, ½″ panel mount, aluminum
- **0** Fine adjust, 1⅜″ panel mount, aluminum
- **D** Captured vent, tamper-proof, stainless steel

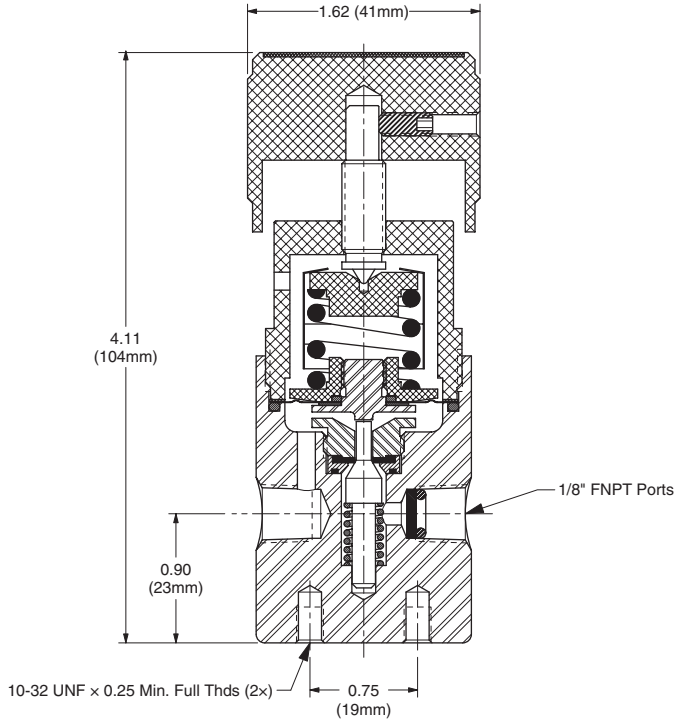
NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at www.goreg.com or contact the factory.

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 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	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)



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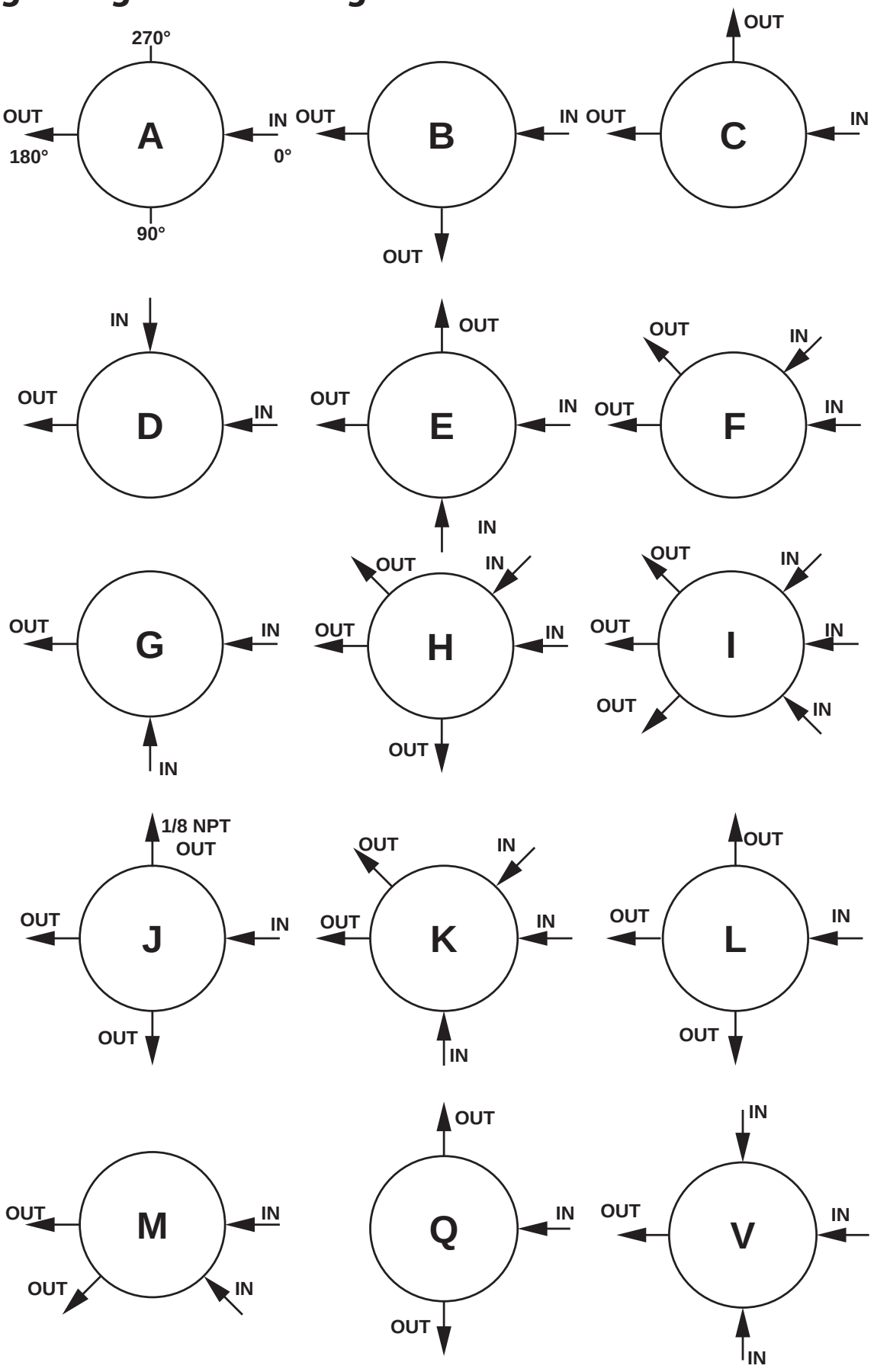
Teflon® and Tefzel® are registered trademarks of the DuPont Company.
Kel-F® is a registered trademark of 3M Company.
PEEK™ is a trademark of Victrex PLC.
Inconel® is a registered trademark of Special Metals Corporation.

Porting Configurations for Single Stage Pressure Regulators



LOCATION OF PORTS FROM TOP VIEW