

GO REGULATOR, INC.

A division of CIRCOR International, Inc.



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*
- C_v flow 0.025, 0.06, and 0.20
- Operating temperatures -40°F (-40°C) to +500°F (+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

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

CPR-1 Series

Compact Stainless Steel Pressure Reducing Regulator

How to Order

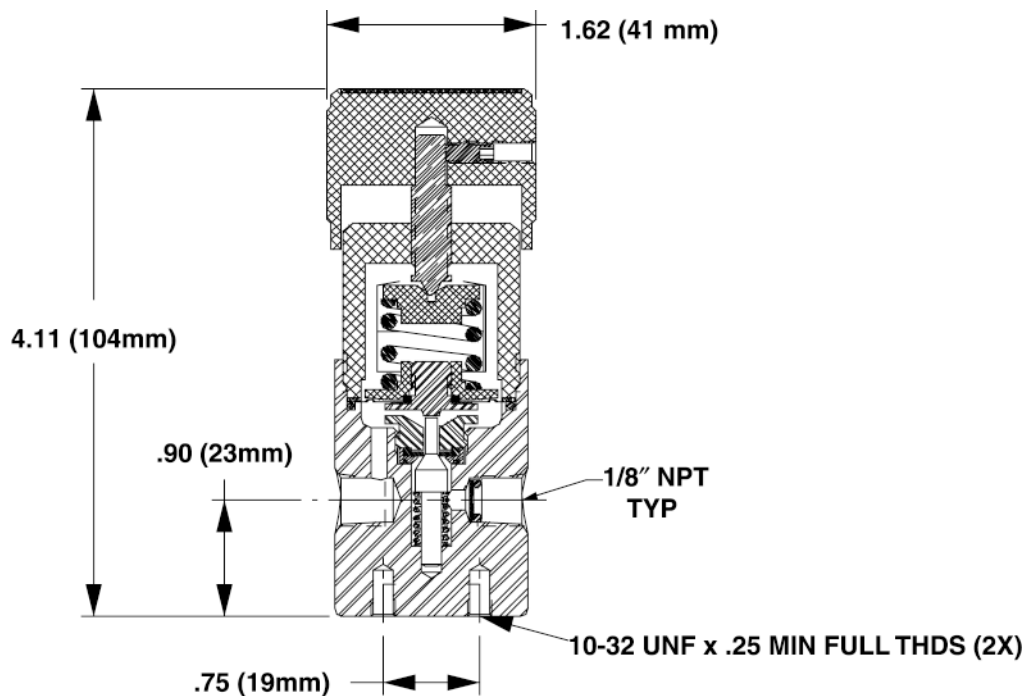
See page 3 for standard configurations. For additional configurations, consult the factory.
See page 4 for port locations.

Maximum Temperature and Control 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-F81)	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)

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

Outline and Mounting Dimensions



Weight - 1.1 lbs (0.50 kg)

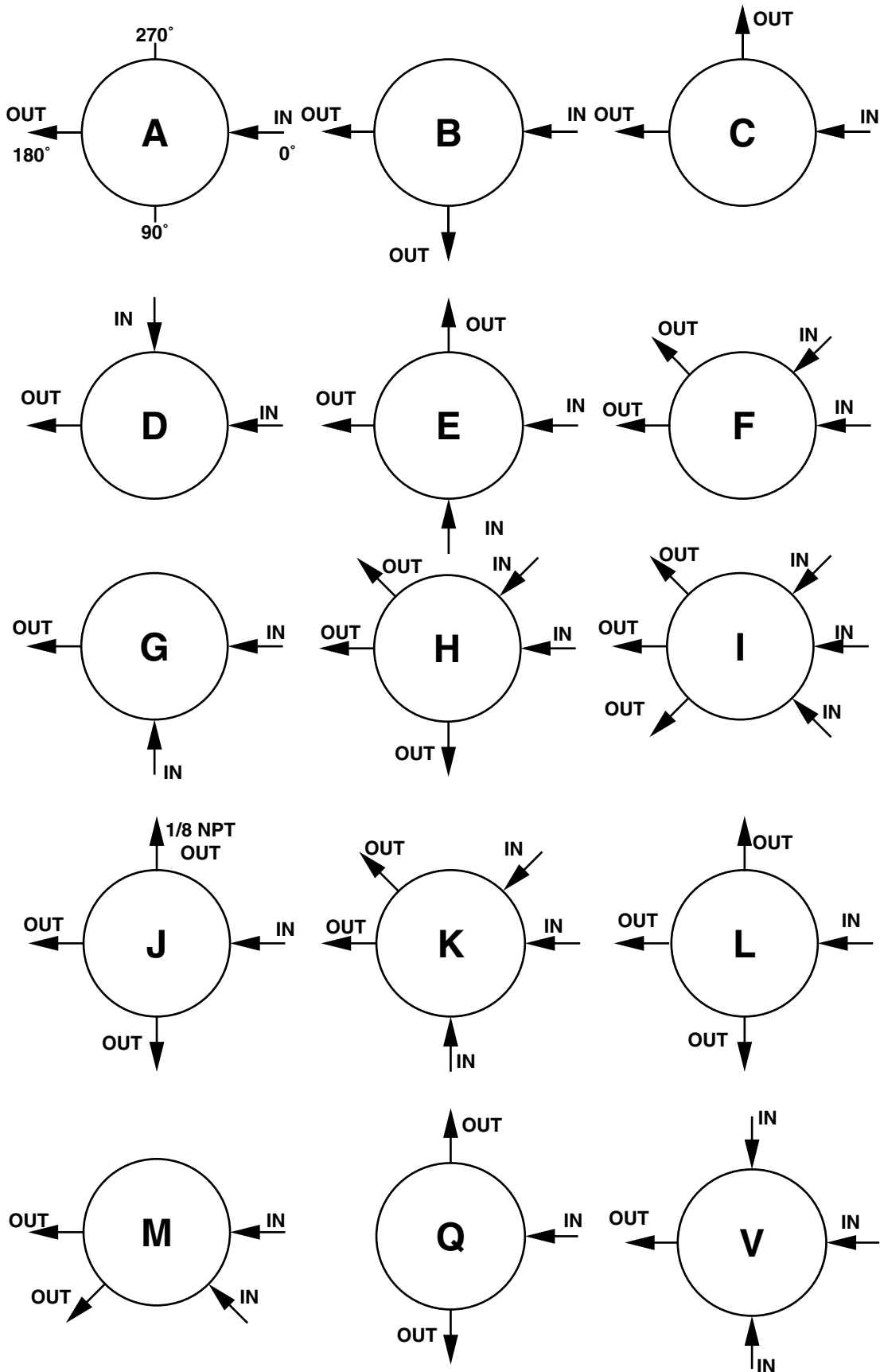
CPR-1 Series - Pressure Reducing Regulator

Mat'l 1	Material of Body SS 316L									
Port Config. A	Port Configuration (see page 4) STANDARD BODY "A" (ONE INLET PORT AND ONE OUTLET PORT)									
0	Process port types (gauge port type, if specified) 1/8" FNPT (1/8" FNPT Gauge Port), Standard									
1	Surface Finish of Diaphragm Cavity <25 Ra									
A	Seat Material Tefzel									
C	Polyimide									
H	PCTFE (formerly Kel-F 81)									
I	High Density Teflon									
Q	Peek									
Cv 3	Flow Coefficient (Cv) 0.06									
5	0.2									
C	0.025									
A	Outlet Range 1 - 30 Psia									
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									
1	Diaphragm Type Standard, Nylon Dia. Slip Ring (170° F Max. Temp.)									
2	Standard, Polyimide Dia. Slip Ring (High Temp. Service)									
1	Dia. Facing / Backing / O-Ring Mat'l Tefzel Seal Ring / SS Backing / Teflon O-Ring									
2	Teflon Facing / Viton Backing / Viton O-Ring									
3	Teflon Facing / Viton Backing / Teflon O-Ring									
4	Teflon Facing / SS Backing / Viton O-Ring									
7	Tefzel Seal Ring / SS Backing / Viton O-Ring									
8	Tefzel Seal Ring / Inconel Backing / Teflon O-Ring									
H	Tefzel Seal Ring / Inconel Backing / Viton O-Ring									
1	Cap Assembly Standard, Aluminum									
4	Panel Mount, Aluminum									
5	Captured Vent, Aluminum									
7	Captured Vent, S.S.									
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, S.S.									

C P R 1 -

Material	Port Config.	Port Style	Cavity Finish	Seat Material	Flow (Cv)	Control Range	Diaphragm Type	Diaphragm / O-Ring Material	Cap Assembly
----------	--------------	------------	---------------	---------------	-----------	---------------	----------------	-----------------------------	--------------

PORT LOCATIONS (SINGLE STAGE PRESSURE REGULATOR)



LOCATION OF PORTS FROM TOP VIEW