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 %" FNPT
- * not with Viton®-backed diaphragm assembly

Options

- Panel mount (requires 1%" mounting hole)
- · Special welded connections
- Pressure gauges
- Captured vent

CPR-1 Series

How to Order

CPR1 **BODY MATERIAL** 316L stainless steel PORT CONFIGURATION A Standard For more port configurations, see page 35 PROCESS PORT TYPES-(GAUGE PORT TYPES, IF SPECIFIED) %" FNPT (%" FNPT gauge ports), standard SURFACE FINISH OF DIAPHRAGM CAVITY 1 < 25 Ra, standard SEAT MATERIAL Tefzel® Α C Polyimide PCTFE (formerly Kel-F® 81) Н High density PTFE PEEK™ Q FLOW COEFFICIENT (Cv)-3 0.06

CAP ASSEMBLY

- Standard, aluminum
- Panel mount, aluminum
- Captured vent, aluminum
- Captured vent, stainless steel
- Tamper-proof, aluminum
- Fine adjust, ½" panel mount, aluminum
- Fine adjust, 1%" panel mount, aluminum
- Captured vent, tamper-proof, stainless steel

DIAPHRAGM FACING/BACKING/ O-RING MATERIAL

- Tefzel® ring/stainless steel/PTFE
- PTFE/Viton®/Viton® 2
- PTFE/Viton®/PTFE 3
- PTFE/stainless steel/Viton®
- Tefzel® ring/stainless steel/Viton®
- Tefzel® ring/Inconel®/PTFE
- Tefzel® ring/Inconel®/Viton®

DIAPHRAGM TYPE

- Standard, Nylon dia. slip ring (170° F maximum temperature)
- 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.

OUTLET RANGE 1-30 psig Α

0.2

0.025

5

C

C 0-10 psig

D 0-25 psig

Ε 0-50 psig

0-100 psig G 0-250 psig

0-500 psig

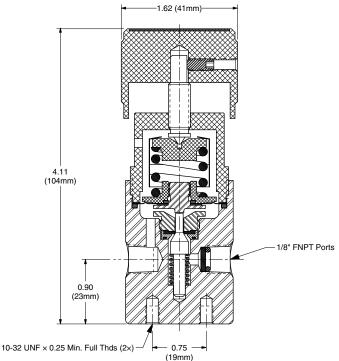
0-750 psig

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 (0.50 kg)



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