CYL-20 Series

Corrosion-resistant Two-stage Pressure Reducing Regulator



Precision pressure control is now possible with the CYL-20 Series regulator. This two-stage regulator, constructed of 316L stainless steel and Teflon®, has less than 0.01 percent outlet pressure change with varying inlet pressures and is designed for use in gas calibration systems and semiconductor materials processing.

With materials of only 316L stainless steel, Teflon® and Tefzel®, this regulator is suitable for service in corrosive streams as well as non-corrosive streams with potential surface absorption problems. This regulator accepts inlet pressures up to 6000 psig and has bubble-tight shutoff. Operating temperature ranges may vary from -40° C up to +260° C and outlet pressure ranges of 0–10 psig up to 0–500 psig are easily adjustable by a fluted knob.

Features & Specifications

- 316L stainless steel, Inconel®, Teflon® & Tefzel® in contact with operating media only
- Stainless steel caps & adjusting screws
- Bubble-tight shutoff
- CGA fitting for cylinder connection
- 2" diameter stainless steel 316 gauges
- Maximum inlet pressure: 6000 psig
- Outlet pressure ranges of 0–10 psig, 0–50 psig, 0–100 psig, 0–250 psig and 0–500 psig
- Cv flow coefficients: 0.025, 0.06, 0.20, 0.50
- Operating temperatures of one line: -40° F to +500° F (-40° C to +260° C)
- Outlet pressure change is 0.01 psig per 100 psig of inlet decay

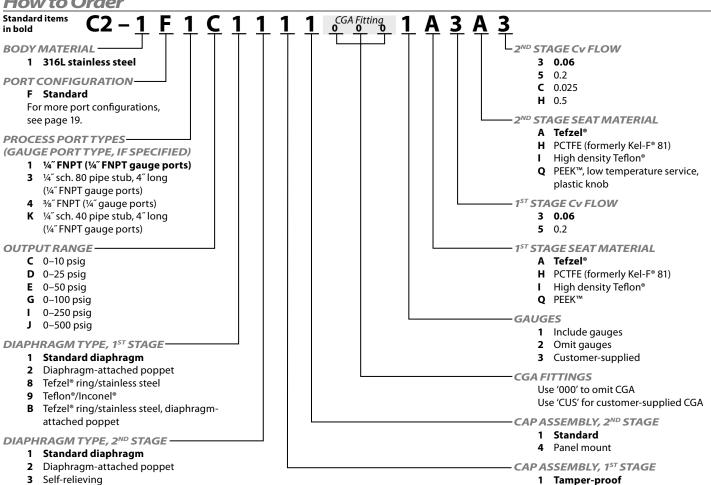
Options

- Relief valve
- Captured vent
- Special fittings including all metal VCR®-compatible
- Shutoff valve

GO Regulator

CYL-20 Series

How to Order



Self-relieving

Tefzel® ring/stainless steel

Teflon®/Inconel®

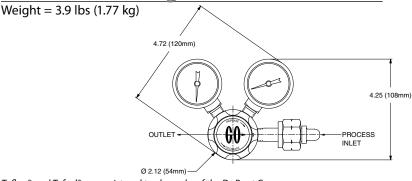
B Tefzel® ring/stainless steel, diaphragm-attached poppet

For a full list of options, visit the selection matrix for this product on www.goreg.com

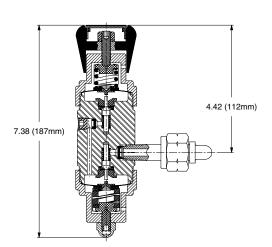
Maximum Temperature & **Operating Inlet Pressures**

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)

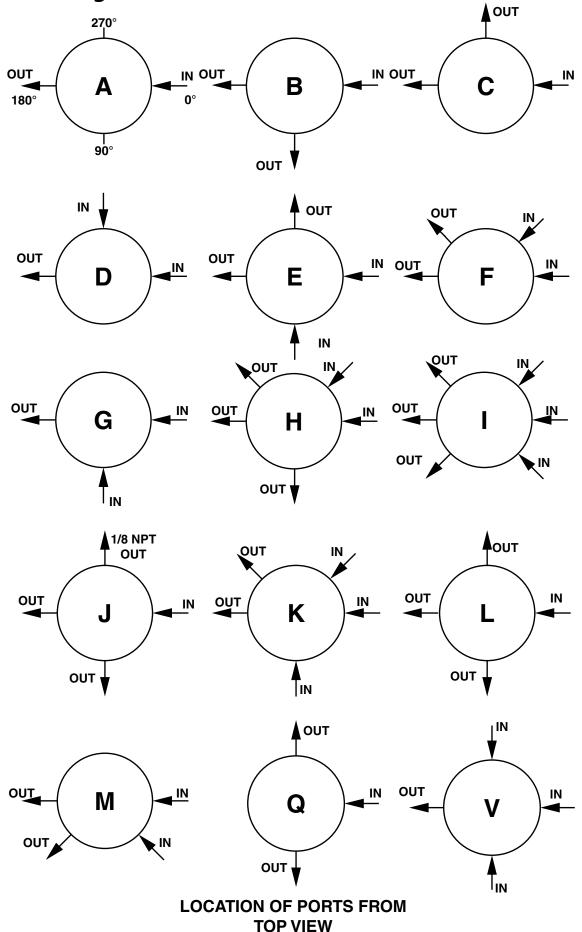
Outline & Mounting Dimensions



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



Porting Configurations for Cylinder Regulators





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