

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 $+260^{\circ}$ 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

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CYL-20 Series

Teflon[®]/Inconel[®]

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SEAT MATERIAL

Tefzel[®]

High density Teflon®

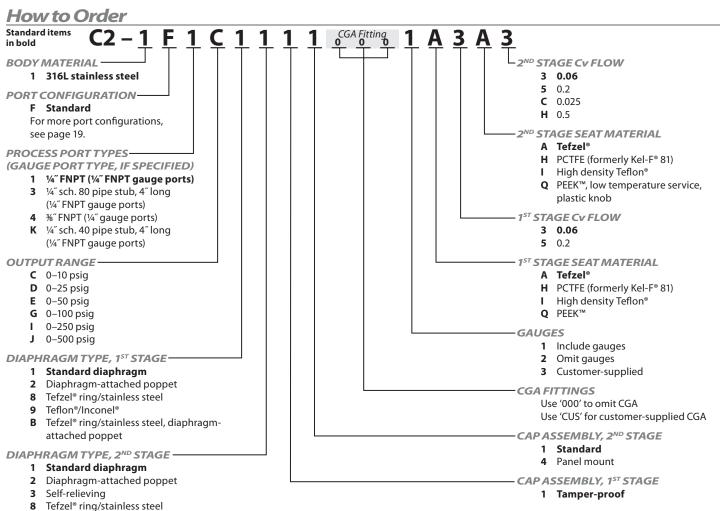
PCTFE (formerly Kel-F* 81)

Polyimide

Polyimide

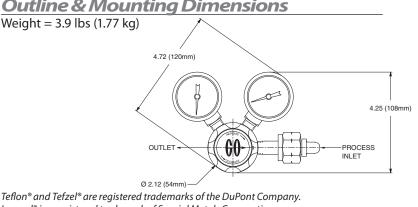
PEEK™

PEEK™



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

> 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 OPERATING

INLET PRESSURE

3600 psig (24.82 MPa)

3600 psig (24.82 MPa)

6000 psig (41.37 MPa)

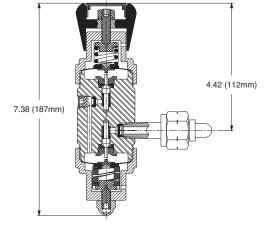
3600 psig (24.82 MPa)

6000 psig (41.37 MPa)

3600 psig (24.82 MPa)

6000 psig (41.37 MPa)

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.



Outline & Mounting Dimensions

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

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MAXIMUM

TEMPERATURE

150° F (66° C)

150° F (66° C)

175° F (80° C)

500° F (260° C)

175° F (80° C)

500° F (260° C)

175° F (80° C)

Maximum Temperature &

Operating Inlet Pressures

Porting Configurations for Cylinder Regulators

