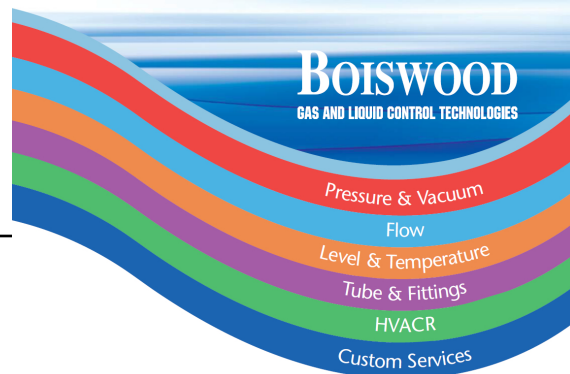


# GO REGULATOR

## 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 PTFE, 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, PTFE 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®, PTFE & 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

405 Centura Court • PO Box 4866 (29305) • Spartanburg, SC 29303

Phone (864) 574-7966 Fax (864) 574-5608

www.goreg.com • sales@goreg.com

pressure regulators

# CYL-20 Series

## How to Order

**Standard items in bold**

**C2 – 1 F 1 C 1 1 1 1 1** *CGA Fitting* **1 A 3 A 3**

**BODY MATERIAL**

**1** 316L stainless steel

**PORT CONFIGURATION**

**F** Standard

For more port configurations, see page 19.

**PROCESS PORT TYPES (GAUGE PORT TYPE, IF SPECIFIED)**

**1** ¼" FNPT (¼" FNPT gauge ports)

**3** ¼" sch. 80 pipe stub, 4" long (¼" FNPT gauge ports)

**4** ⅜" FNPT (¼" gauge ports)

**K** ¼" sch. 40 pipe stub, 4" long (¼" FNPT gauge ports)

**OUTPUT RANGE**

**C** 0–10 psig

**D** 0–25 psig

**E** 0–50 psig

**G** 0–100 psig

**I** 0–250 psig

**J** 0–500 psig

**DIAPHRAGM TYPE, 1<sup>ST</sup> STAGE**

**1** Standard diaphragm

**2** Diaphragm-attached poppet

**8** Tefzel® ring/stainless steel

**9** PTFE/Inconel®

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

**DIAPHRAGM TYPE, 2<sup>ND</sup> STAGE**

**1** Standard diaphragm

**2** Diaphragm-attached poppet

**3** Self-relieving

**8** Tefzel® ring/stainless steel

**9** PTFE/Inconel®

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

**2<sup>ND</sup> STAGE Cv FLOW**

**3** 0.06

**5** 0.2

**C** 0.025

**H** 0.5

**2<sup>ND</sup> STAGE SEAT MATERIAL**

**A** Tefzel®

**H** PCTFE (formerly Kel-F® 81)

**I** High density PTFE

**Q** PEEK™, low temperature service, plastic knob

**1<sup>ST</sup> STAGE Cv FLOW**

**3** 0.06

**5** 0.2

**1<sup>ST</sup> STAGE SEAT MATERIAL**

**A** Tefzel®

**H** PCTFE (formerly Kel-F® 81)

**I** High density PTFE

**Q** PEEK™

**GAUGES**

**1** Include gauges

**2** Omit gauges

**3** Customer-supplied

**CGA FITTINGS**

Use '000' to omit CGA

Use 'CUS' for customer-supplied CGA

**CAP ASSEMBLY, 2<sup>ND</sup> STAGE**

**1** Standard

**4** Panel mount

**CAP ASSEMBLY, 1<sup>ST</sup> STAGE**

**1** Tamper-proof

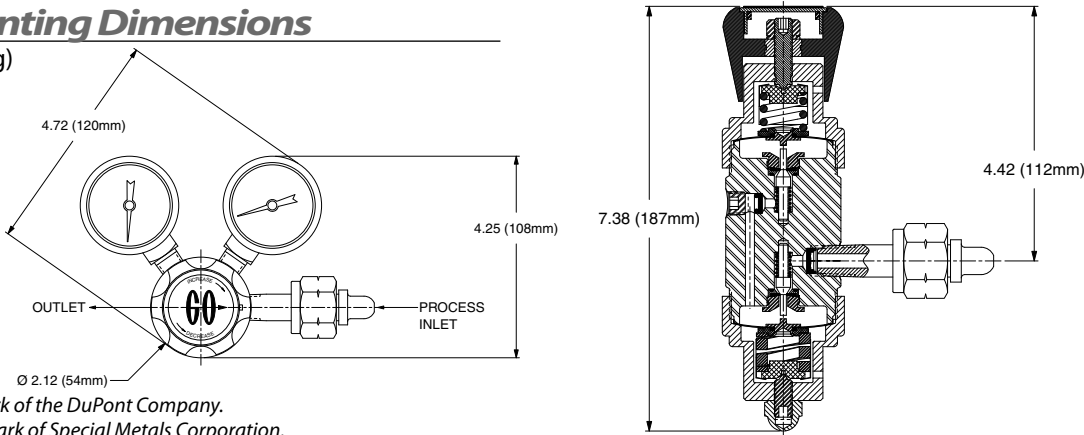
## Maximum Temperature & Operating Inlet Pressures

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)

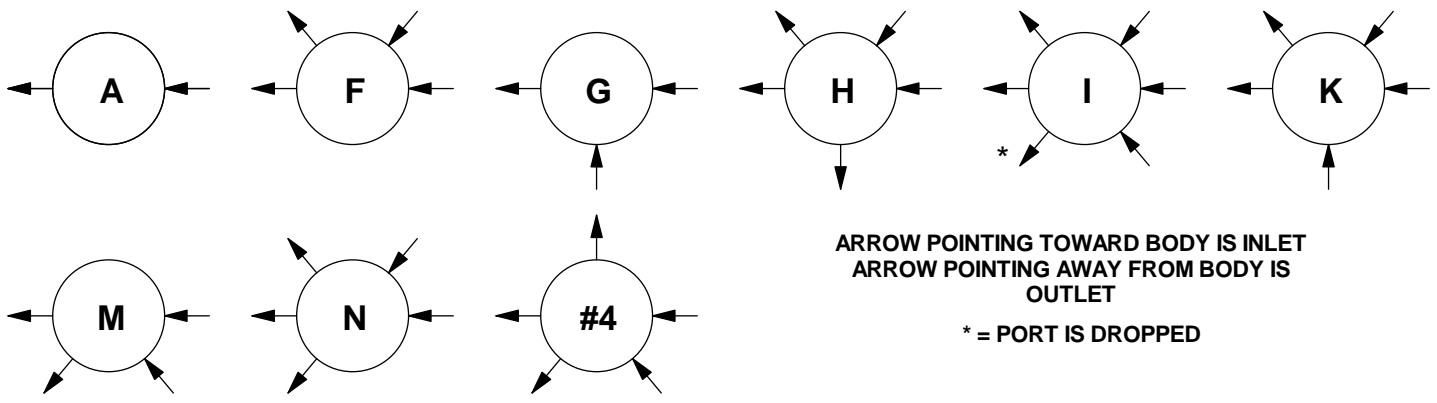
NOTE: The choices above represent an abbreviated list of the more commonly ordered options. For a complete listing of all available options, please see the Selection Wizard on the GO website at [www.goreg.com](http://www.goreg.com) or contact the factory.

## Outline & Mounting Dimensions

Weight = 3.9 lbs (1.77 kg)



Tefzel® is a registered trademark 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.



## DUAL STAGE PRESSURE REDUCING PORTING CONFIGURATIONS

