

## CYL-21 Series

Corrosion-resistant Single Stage Cylinder Regulator



(Shown with optional outlet valve)

The CYL-21 Series is a compact cylinder regulator based on the time proven design of the PR-1 Series single-stage stainless steel line regulator and is suitable for most corrosive gas cylinder applications. While normally used for low and moderate flow service, optional high flow orifices are available.

The standard unit is equipped with CGA connector, integral inlet filter, inlet and outlet pressure gauges and may be ordered with extra inlet or outlet ports for inlet purging, outlet relief valves or other accessory items. When used in service with toxic or explosive gases, we recommend the installation of a captured vent option. This option is a true captured vent cap and not merely a standard cap with a vent port. It comes complete with a CGA fitting and 2" diameter gauges.

### Features & Specifications

- 316L stainless steel construction (standard), MONEL® optional
- Inlet pressures up to 6000 psig
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- Bubble-tight shutoff
- CGA inlet fitting
- 2" diameter 316 stainless steel gauges
- Outlet pressure ranges 0–10 psig, 0–25 psig, 0–50 psig, 0–100 psig, 0–250 psig, 0–500 psig, and 0–750 psig
- Optional Cv flow coefficients: 0.025, 0.06, 0.20, 0.50

pressure regulators

# CYL-21 Series

To Order, contact your local Distributor Link below:  
[www.goreg.com/distributor/index.htm](http://www.goreg.com/distributor/index.htm)

Verify that your chosen part number is valid using the GO Wizards at  
[www.goreg.com/products/matrix/index.htm](http://www.goreg.com/products/matrix/index.htm)

## How to Order

Standard items in bold

**C1 - 1 F 1 1 A 3 C 1** CGA Fitting **0 0 0 1 A**

### BODY MATERIAL

- 1** 316L stainless steel, stainless steel diaphragm
- 4** MONEL®, INCONEL® diaphragm
- C** **316L stainless steel, INCONEL® diaphragm**

### PORT CONFIGURATION

- F** **Standard**
- For more port configurations, see page 20.

### PROCESS PORT TYPES

(GAUGE PORT TYPE, IF SPECIFIED)

- 1** 1/4" FNPT (1/4" FNPT gauge ports)
- 4** 3/8" FNPT (1/4" FNPT gauge ports)

### DIAPHRAGM TYPE

- 1** **Standard diaphragm**
- 3** Self-relieving
- 8** Tefzel® ring/metal backing

### SEAT MATERIAL

- A** **Tefzel®**
- B** CF PTFE
- H** PCTFE
- Q** PEEK™

### OPTIONS

- A** EB33 (oxygen cleaning)
- B** EB5 cleaning
- D** Helium leak test
- E** Pressure test certificate
- F** Certificate of Conformity
- G** CMTR

### GAUGES

- 1** Include gauges
- 2** Omit gauges
- 3** Customer-supplied, to be factory installed

### CGA FITTINGS

- Use '000' to omit CGA
- Use 'CUS' for customer-supplied CGA, to be factory installed

### CAP ASSEMBLY

- 1** **Standard**
- 4** Panel mount
- 7** Captured vent, stainless steel
- 8** Tamper proof
- J** Captured vent, panel mount, stainless steel

### 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
- W** 0-750 psig

### FLOW COEFFICIENT (Cv)

- 3** **0.06**
- 5** 0.2
- C** 0.025
- H** 0.5

## Maximum Temperature & Operating Inlet Pressures

SEAT MATERIAL	MAXIMUM TEMPERATURE*		MAXIMUM OPERATING INLET PRESSURE
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE	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)
CF PTFE	175° F (80° C)	@	3600 psig (24.82 MPa)

\* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper-proof option.

NOTE: Contact the factory for any additional requirements.

MONEL® is a registered trademark of Special Metals Corporation.  
 Tefzel® is a registered trademark of the DuPont Company.  
 PEEK™ is a trademark of Victrex PLC.

## Outline & Mounting Dimensions

Weight = 1.9 lbs (0.86 kg)

