



GO REGULATOR, INC.
A division of CIRCOR International, Inc.

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 SS and Teflon®, has less than .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 6,000 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 up to 0–500 psig are easily adjustable by a fluted knob.

Features & Specifications

- Stainless steel 316L, 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, 0–50, 0–100, 0–250 and 0–500 psig
- C_v flow coefficients 0.025, 0.06, 0.20, 0.50
- Operating temperatures of one line -40° F (-40° C) to +500° F (+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
- Shut off valve

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CYL-20 Series

Corrosion Resistant Two-Stage Pressure Reducing Regulator

How to Order

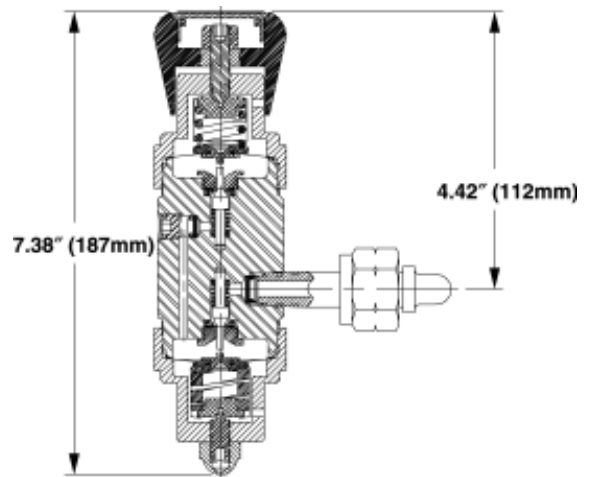
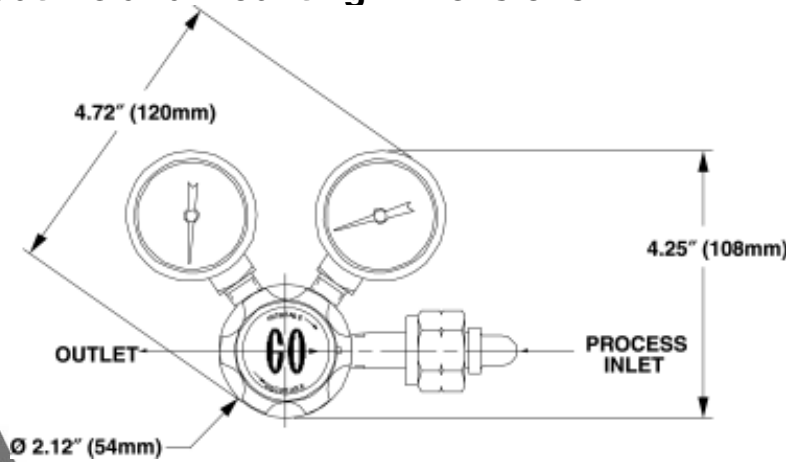
See page 3 for standard configurations. For additional configurations, consult the factory.
See page 4 for port locations.

Maximum Temperature & Operating Inlet Pressures

Stainless Steel			
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)
	175° F (80° C)	@	6000 psig (41.37 MPa)
PEEK	500° F (260° C)	@	3600 psig (24.82 MPa)
	175° F (80° C)	@	6000 psig (41.37 MPa)

* Temperatures in excess of 175° F (80° C) require the use of a metal knob or the tamper proof option.
Tefzel® and Teflon® are registered trademarks of Dupont.

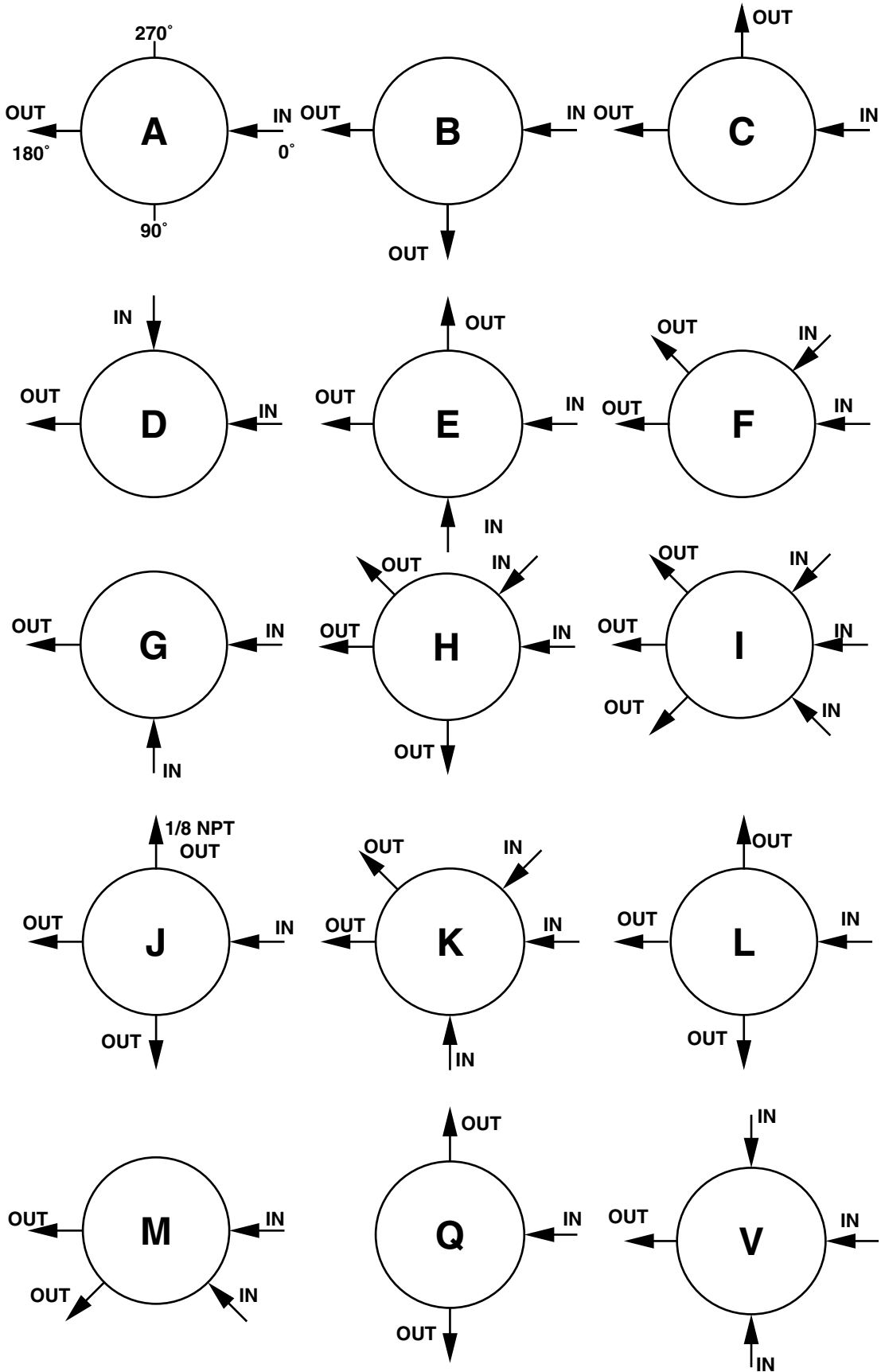
Outline and Mounting Dimensions



Weight - 3.9 lbs (1.77 kg)

For flow curve charts, go to www.goreg.com/catalog/pr/cyl/cyl20/cyl20_flow.htm.

PORT LOCATIONS (CYLINDER REGULATORS)



LOCATION OF PORTS FROM TOP VIEW