



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

## **CYL-1 Series Single Stage Brass Cylinder Gas Pressure Reducing Regulator**

The CYL-1 Series is designed as a complete compact pressure control module. The basis of this unit is the economical PR-2 Series pressure control valve which is widely used in instrumentation sample systems as well as many other applications requiring maximum reliability. This regulator, when ordered with appropriate gauges and CGA inlet fitting, is designed for use as a compressed gas cylinder regulator for those applications where the corrosion resistance of stainless steel is not a requirement.

### **Features & Specifications**

- CGA inlet fitting
- Integral inlet filter
- 2" diameter brass gauges
- Teflon® lined stainless steel diaphragm
- Maximum inlet pressure 3600 psig
- Outlet pressure ranges 0–10, 0–25, 0–50, 0–100, 0–250, 0–500 and 0–750 psig
- Fluid media; non-corrosive gases
- Operating temperatures -40° F (-40° C) to +175° F (+80° C)
- C<sub>v</sub> flow coefficients 0.025, 0.06, 0.20

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# CYL-1 Series

## Single Stage Brass Cylinder Gas Pressure Reducing Regulator

### How to Order

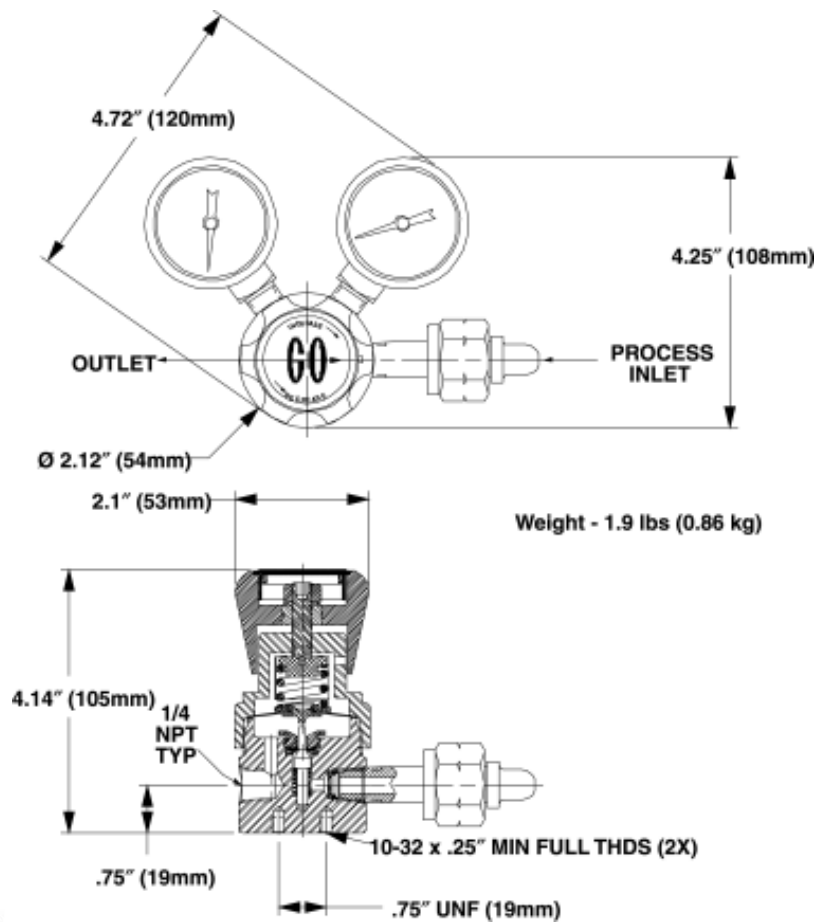
See page 3 for standard configurations. For additional configurations, consult the factory.  
See page 4 for port locations.

### Maximum Temperature & Operating Inlet Pressures

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)	@	3600 psig (24.82 MPa)
Polyimide	175° F (80° C)	@	3600 psig (24.82 MPa)
PEEK	175° F (80° C)	@	3600 psig (24.82 MPa)

Tefzel® and Teflon® are registered trademarks of Dupont.

### Outline and Mounting Dimensions

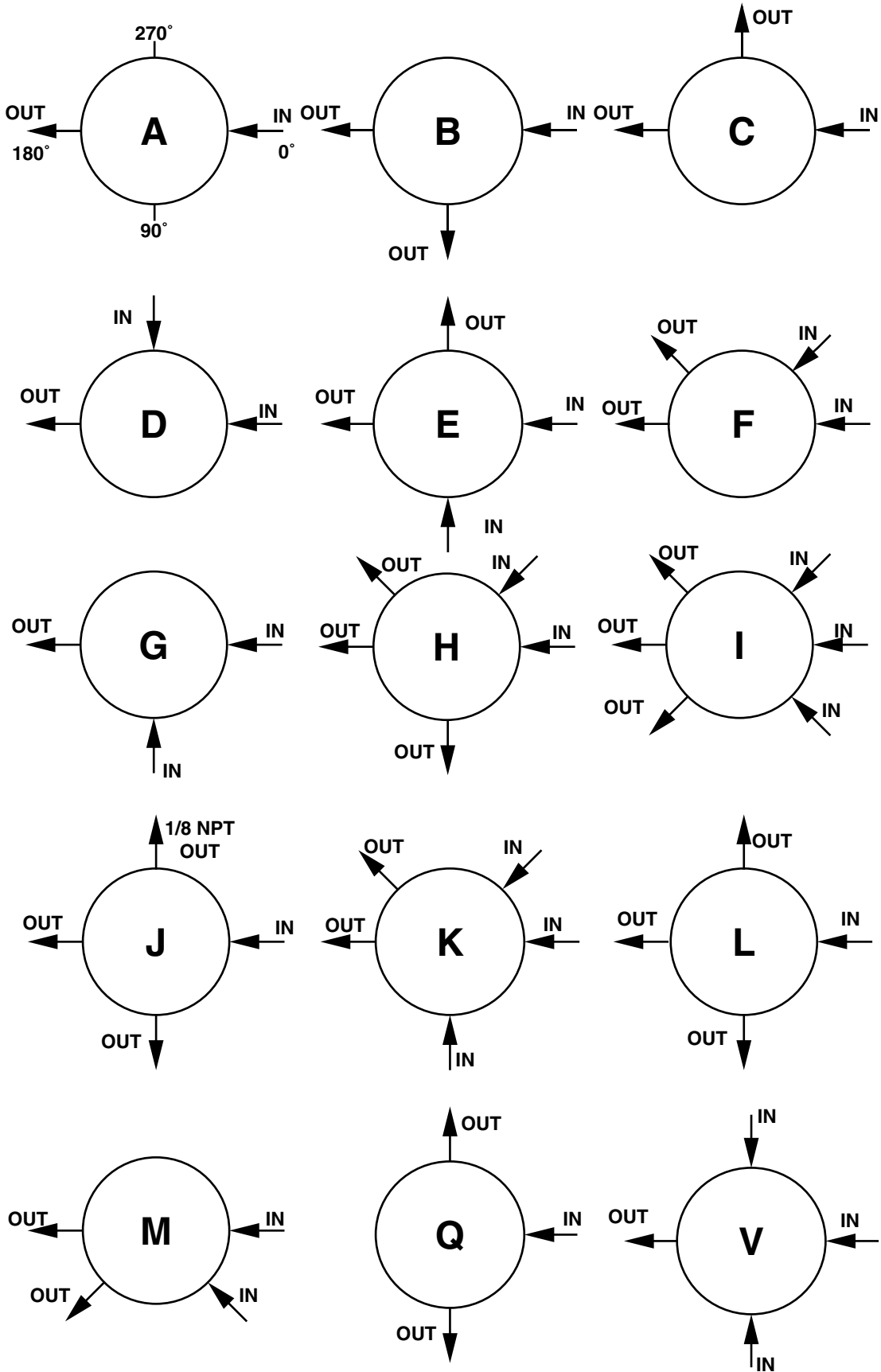


For flow curve charts, go to [www.goreg.com/catalog/pr/cyl/cyl1/cyl1\\_flow.htm](http://www.goreg.com/catalog/pr/cyl/cyl1/cyl1_flow.htm).

# CYL-1 Series - Pressure Reducing Regulators

<b>Material of Body</b>											
2	Brass										
<b>Port Configuration (see page 28)</b> STANDARD BODY "F" (TWO INLET PORTS AND TWO OUTLET PORTS)											
F											
<b>Process port types (gauge port type, if specified)</b>											
1	1/4" FNPT (1/4" FNPT Gauge ports)										
2	1/4" Tube (1/4" Tube Gauge ports)										
3	1/4" Sch 80 Pipe (1/4" FNPT Gauge ports)										
4	3/8" FNPT (1/4" FNPT Gauge ports)										
6	1/2" Tube (1/4" Tube Gauge ports)										
K	1/4" Sch 40 Pipe (1/4" FNPT Gauge ports)										
<b>Diaphragm Type</b>											
1	Standard Diaphragm										
2	Diaphragm Attached Poppet										
3	Self Relieving										
4	Vacuum Assist Spring, Standard Diaphragm										
5	Vacuum Assist Spring, Diaphragm Attached Poppet										
8	Tefzel Ring / SS										
<b>Seat Material</b>											
A	Tefzel										
B	CF Teflon										
C	Polyimide										
H	PCTFE (formerly Kel-F 81)										
I	High Density Teflon										
Q	PEEK										
<b>Flow Coefficient (Cv)</b>											
Cv											
3	0.06										
5	0.2										
C	0.025										
<b>Output Range</b>											
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										
<b>Cap Assembly</b>											
1	Standard										
4	Panel Mount										
<b>CGA Fitting</b> Use 0 in all boxes to omit CGA. Use "CUS" in boxes for customer supplied CGA.											
<b>Gauges</b>											
1	Include Gauges										
2	Omit Gauges										
3	Customer Supplied										
C 1 -											
Material	Port Config.	Port Style	Diaphragm Type	Seat Material	Flow Coefficient (Cv)	Output Range	Cap Assembly	C	G	A	Gauges

# PORT LOCATIONS (CYLINDER REGULATORS)



LOCATION OF PORTS FROM TOP VIEW