

# **GO** REGULATOR, INC.

A division of CIRCOR International, Inc.

## **COM-2B Series Crossover Manifold Regulator System**



The COM-2B Series crossover manifold system uses two PR-1 (stainless steel) type regulators (PR-2 type, brass, optional) built in a single body functioning as the changeover regulators with the common outlet port connected to a single line regulator to provide constant unchanging supply pressure unaffected by supply source depletion. All are mounted on a bracket complete with gauges. As the primary supply source depletes and the operating outlet pressure of the primary regulator falls below the preset changeover pressure of the secondary regulator, the secondary regulator takes over. Once this occurs, the primary regulator can be manually adjusted 1/8 turn counterclockwise, the secondary regulator is now the primary and the depleted supply source can be replaced.

### **Features & Specifications**

- Bracket mounted for easy installation
- Allows changing of cylinders during operation
- Available in stainless steel, brass and Monel
- Steady outlet pressure during cylinder depletion
- 0.01% pressure control accuracy
- Inlet pressures to 6000 psig
- Outlet pressure ranges 0–10, 0–25, 0–50, 0–100 or 0–250 psig
- Changeover pressures 15–250 psig
- $C_v$  flow coefficients 0.025, 0.06, 0.2, 0.5
- All connections 1/4" FNPT
- 20 micron inlet fitters
- 316L stainless steel construction
- Teflon® lined stainless steel diaphragm
- Operating temperatures -40° F (-40° C) to +500° F (+260° C)

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# COM-2B Series

## Crossover Manifold Regulator System

### 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

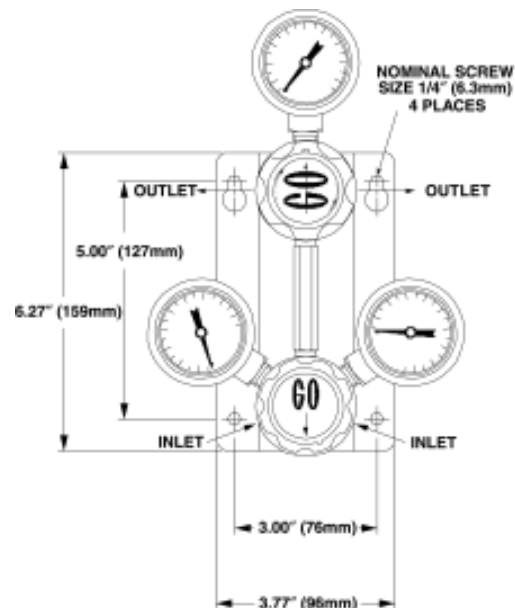
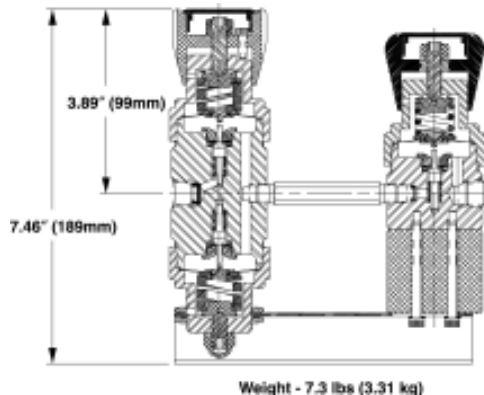
Stainless Steel			
Seat Material	Maximum Temperature*	@	Maximum Operating Inlet Pressure
Tefzel®	150° F (66° C)	@	3600 psig (24.82 MPa)
High Density Teflon®	150° F (66° C)	@	3600 psig (24.82 MPa)
PCTFE (formerly Kel-F81)	175° F (80° C)	@	6000 psig (41.37 MPa)
Polyimide	500° F (260° C)	@	3600 psig (24.82 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)

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

Brass			
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-F81)	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

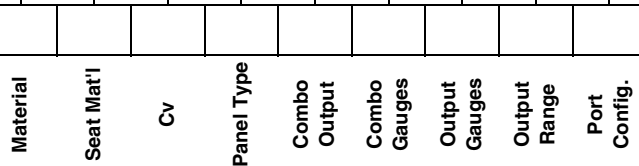


For flow curve charts, go to [www.goreg.com/catalog/pr/cyl/com\\_2/com2\\_flow.htm](http://www.goreg.com/catalog/pr/cyl/com_2/com2_flow.htm).

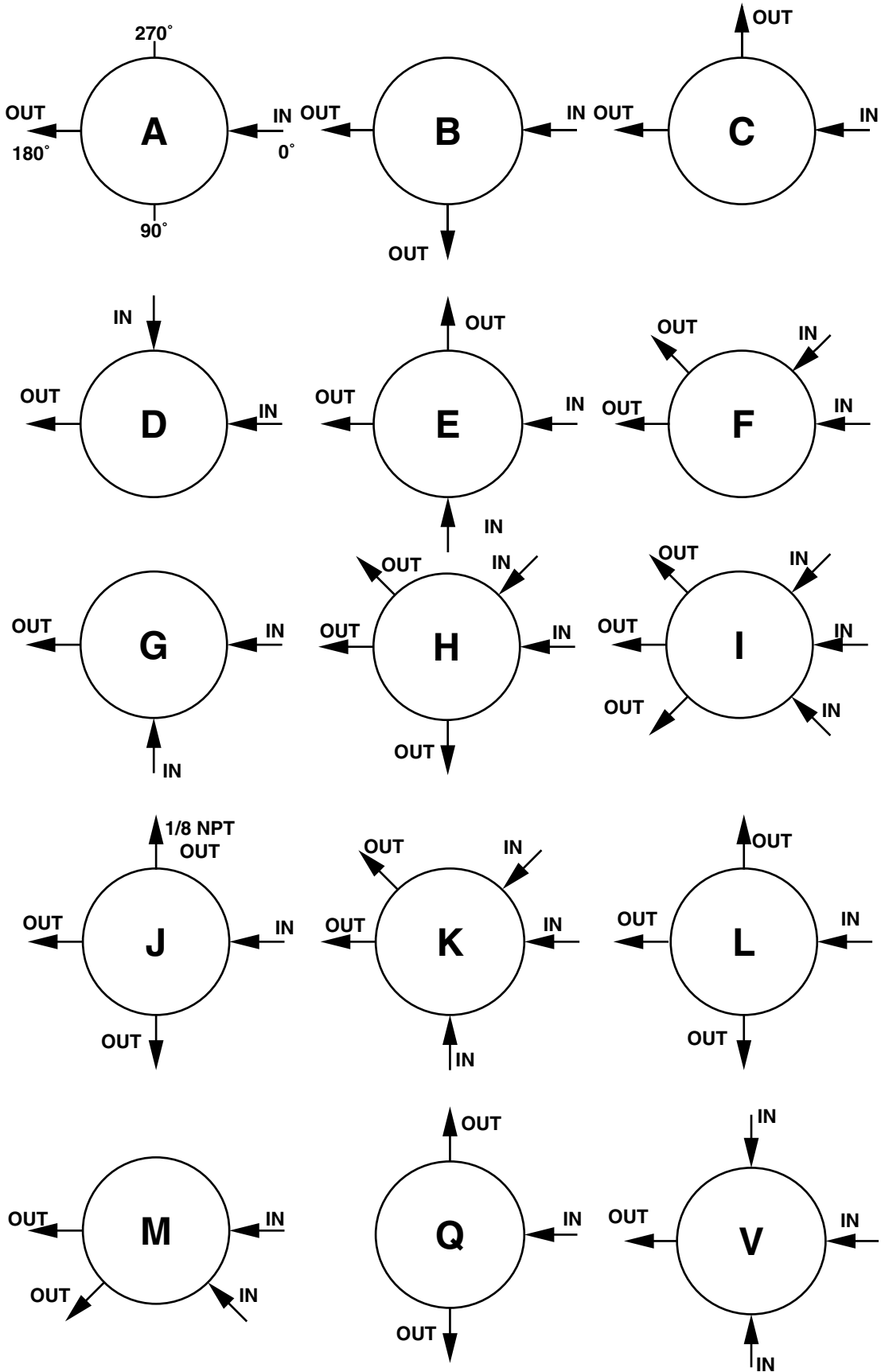
# COM-2B Regulator Assemblies

		<b>Material of Body</b>	
1	SS 316L		
2	Brass		
		<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>	
3	0.06		
5	0.2		
C	0.025		
H	0.5		
		<b>Panel Type</b>	
B	Bracket		
		<b>Combo Regulator Set Point</b>	
J	150 Psig Over Output Regulator Range		
		<b>Combo Regulator Pressure Gauges</b>	
1	With Gauges		
2	Less Gauges		
3	Customer Supplied		
		<b>Output Regulator Pressure Gauges</b>	
1	With Gauges		
2	Less Gauges		
3	Customer Supplied		
		<b>Output Regulator Output Range</b>	
C	0 - 10 Psig		
D	0 - 25 Psig		
E	0 - 50 Psig		
G	0 - 100 Psig		
I	0 - 250 Psig		
		<b>Output Regulator Port Configuration</b>	
A	A Style		
B	B Style		
C	C Style		
D	D Style		
E	E Style		
G	G Style		
L	L Style		
Q	Q Style		

COM 2 -



# PORT LOCATIONS (CYLINDER REGULATORS)



LOCATION OF PORTS FROM TOP VIEW