



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

## COM-2P Series Crossover Manifold Regulator System

The COM-2P employs two discrete single stage PR-1 type regulators built into a single body. These regulators serve as the primary and secondary changeover regulators with the common outlet port connected to a single PR-1 Series regulator. This allows for the non-stop delivery of gas from bottles with only a 0.01% change in outlet pressure as the inlet pressure varies. The hardware comes mounted in an attractive 300 series panel that is suitable for surface mounting near the bottles. Labels are permanently silk-screened on the face of the panel for easy identification of process ports and gauges. The unit comes complete with pressure gauges and shut off valves. Suitable for gases and liquids.

### Features & Specifications

- Complete panel system including gauges and vent valves for easy installation
- Allows changing of cylinders during operation
- Available in both stainless steel and brass (other materials also available)
- 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 sintered inlet filters
- Teflon® lined stainless steel diaphragm
- Operating temperatures -40° F (-40° C) to +500° F (+260° C)

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# COM-2P Series

## Crossover Manifold Regulator System

### How to Order

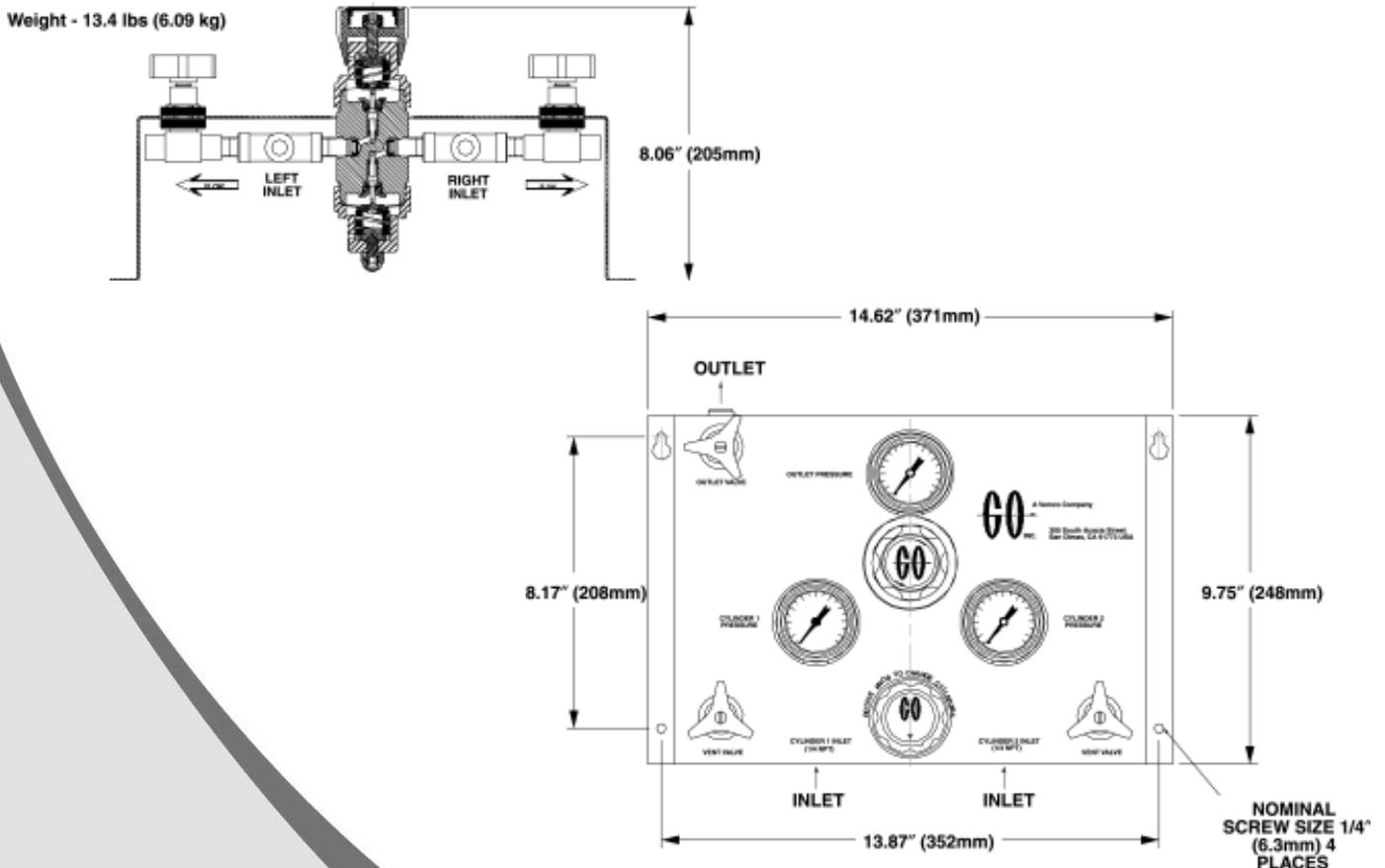
See page 3 for standard configurations. For additional configurations, consult the factory.  
See page 4 for port locations.

### Maximum Temperature & Operating Inlet Pressures

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)
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.  
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).

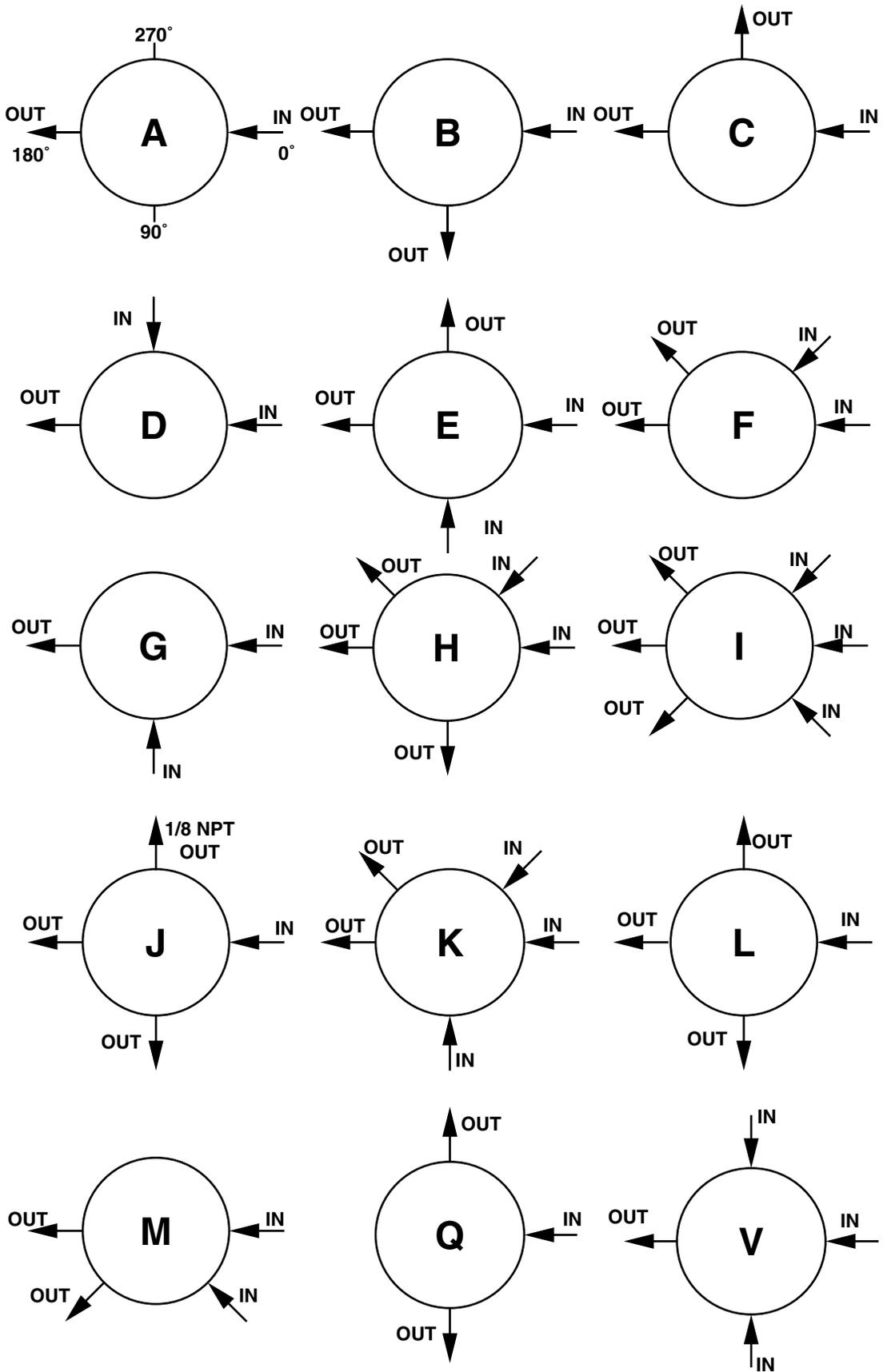
# COM-2P Regulator Assemblies

		<b>Material of Body</b>	
1	SS 316L		
2	Brass		
4	Monel		
		<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>	
P	Deluxe Panel		
		<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>	
L	L Style (standard)		

COM 2 -

				J					L
Material	Seat Mat'l	Cv	Panel Type	Combo Output	Combo Gauges	Output Gauges	Output Range	Port Config.	

# PORT LOCATIONS (CYLINDER REGULATORS)



LOCATION OF PORTS FROM TOP VIEW