

COM-1 Series Cross Over Manifold



The COM-1 Series Cross Over Manifold was designed to allow the user to enjoy a virtually uninterrupted supply of regulated gas from bottles.

The COM-1 Series consists of two PR-1 Series (PR-2 optional) regulators mounted on a 300 series stainless steel bracket. The primary regulator, supplied with a tamper proof nut, is set to an outlet pressure approximately 15 psig higher than the secondary regulator, which is

supplied with a standard knob. As the primary supply source depletes and falls below the operating outlet pressure of the primary regulator, the secondary supply source takes over, feeding through the secondary regulator. Once this occurs, the knob on the secondary regulator is rotated to a stop and the primary supply source can be safely changed while your process is still in operation.

The COM-1 series is supplied complete with 2" diameter inlet pressure gauges for both regulators and a common outlet gauge.

- 316L stainless steel construction
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- Bubble tight shutoff
- 2" diameter gauges
- Outlet pressure ranges are 10, 25, 50, 100 and 250 psig
- Change over pressures between 15-250 psig
- Proof pressure is 2 times maximum working pressure
- Burst pressure is 4 times maximum working pressure
- Weight: 5.2 lbs (2.36 kg)
- Mounting style is surface mounted bracket (see Outline and mounting dimensions)

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)
CF Teflon®	175° F (80° 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 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)
CF Teflon®	175° F (80° 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)

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