

COM-2P Series Cross Over Manifold



The COM-2P Series Cross Over Manifold is the next logical step in engineering evolution from the COM-1. This unit was designed to allow the user to enjoy a virtually uninterrupted supply of regulated gas with only a 0.01% change in outlet pressure with varying inlet pressure from bottles. Borrowing from the technology of the time proven CYL-20 Series cylinder regulators, the COM-2P employs two discrete single stage

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.

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 to the PR-1 Series regulator. Once this occurs, the knob on the secondary regulator is rotated to a stop and the depleted supply source can be safely changed while your process is still in operation.

The COM-2P series is supplied complete with 2" diameter inlet pressure gauges for both regulators, a common outlet gauge and process shut off valves. All of this comes mounted in an attractive 300 series stainless steel panel that has informational labels permanently silk screened on the face identifying ports and gauges. This panel is easily surface mounted near the gas supply.

- 316L stainless steel construction
- Electropolished body with better than 25 Ra finish in diaphragm cavity
- 20 micron inlet filter
- Bubble-tight shutoff
- 2x 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: 13.4 lbs (6.09 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)