

High Flow, High Purity Changeover Manifold for CO₂

Description: This high purity high flow CO₂ manifold can flow up to 565 scfh with the heater incorporated into the system. This manifold will provide uninterrupted gas supplies to your applications.

There are two options for flow: one at 165 scfh and the other at 565 scfh. Each has a different heater to increase the vaporization of the CO₂ to supply your system requirements.

This unique manifold with the heater incorporated is ideal for life science applications requiring a high purity system that will not freeze when momentary or sustained high flow are required.

CO₂ High Flow Changeover

CHANGEOVER MANIFOLDS



Design Features

The manifold has high purity flexible stainless steel pigtails with check valve CGAs for high purity applications.

The inlet gauges are pressure switch gauges to allow one of our Smart Alarms to be easily connected.

The shroud encloses all of the components to provide a high quality appearance and fit well into the laboratory or other area where appearance is required.

The unit has ball valves to ensure the flow is maintained and does not freeze during operation at high flows of CO₂. The unit has an outlet regulator to adjust the final delivery pressure to the process.

Specifications

Maximum Rated Inlet Pressure	1,000 psig
Outlet Pressure Ranges	10-100 psig
Maximum Flow Rate	165 or 565 scfh* @ 150 psig
Ambient Operating Temperature	-40° F to +150° F
Designed Leak Rate	Bubble-Tight (helium)
Weight	11 lbs
Outlet	¼" Compression
Pigtails	30" Stainless Steel Corrugated Bellows, CGA with Check Valve

* Based on Air

Materials

Body	Nickel-Plated Brass
Bonnet	Nickel-Plated Brass
Seat	PCTFE
Diaphragm	Hastelloy C22
Inlet Gauge	2½" Nickel-Plated Brass or Stainless Steel Pressure Switch Enabled
Outlet Gauge	2½" Nickel-Plated Brass or Stainless Steel
Filter (40-micron)	Continuous Copper Wire

Ordering Information

Product Number	Flow Rate SCFH	Number of Cylinders Each Side	Material	Max Outlet Pressure	Inlet Gauge Range (psig)	Outlet Gauge Range (psig)
Y11-CP202R320	165	1	Brass	10-100	0 - 1000	0 - 200
Y11-CP204R320	165	2	Brass	10-100	0 - 1000	0 - 200
Y11-CP206R320	165	3	Brass	10-100	0 - 1000	0 - 200
Y11-CP202HF320	565	1	Brass	10-100	0 - 1000	0 - 200
Y11-CP204HF320	565	2	Brass	10-100	0 - 1000	0 - 200
Y11-CP206HF320	565	3	Brass	10-100	0 - 1000	0 - 200

Available Options

Product Number	Description
Y15-4P72K2C	6-ft. pigtails for use with portable cylinder (2-Cylinder Kit)
Y15-4P72K4C	6-ft. pigtails for use with portable cylinder (4-Cylinder Kit)
Y99-BBCGA1K2	Block & Bleed assembly installed at CGA (2-Cylinder Kit)
Y99-BBCGA1K4	Block & Bleed assembly installed at CGA (4-Cylinder Kit)
Y78-EN200ALPK	Optional Alarm (Audio and Visual)
Y78-EXTCAB8	25 foot Cable Extender for Alarm
Y78-EXTCAB15	50 foot Cable Extender for Alarm
Y78-EXTCAB30	100 foot Cable Extender for Alarm
Y78-EXTCAB40	130 foot Cable Extender for Alarm