

# 630 Series Cryogenic Manifold



630-1122-02-001  
Shown

The 630 series manifold, when coupled with the 629 vent kit, enables the user to extend the flow range of common liquid cylinders up to four times the rated gaseous flow capacity. Available with a wall or cylinder mount panel, the 630 cryogenic manifold allows the user to respond quickly to the ever-changing job shop environment. Rated up to 600 psi MWP, the 630 has the flexibility to optimize 230, 350, and 500 psi-rated liquid cylinders. This solution is ideal for laser, furnace blanketing, and other high-flow applications.

## Advanced Features

- **Optional Pipe away relief**  
Prevents over-pressurization
- **Optional Extended stem isolation valve**  
Positive shut-off under extreme temperatures
- **Spring-loaded check valves**  
Prevents excess flash loss
- **Modular design**  
Offers simple field expandability
- **Stainless panel mount**  
Enables wall or portable mounting
- **Optional auxiliary pressure building kit**  
Maintains 450 psi in excess of 4000 cfh

## Applications

### Cryogenic Laser Assist

Nitrogen  
Oxygen

### High Flow Blanketing

Carbon dioxide  
Inert gases

### Gas Blending

Argon primary supply

## Materials

Brass Barstock Body

## Specifications

Maximum Inlet Pressure

600 psi (41BAR)

Temperature Range

-320 F to 165 F

Inlet Connections

CGA 295

CGA 440

CGA 622

Outlet Connections

½" F-NPT

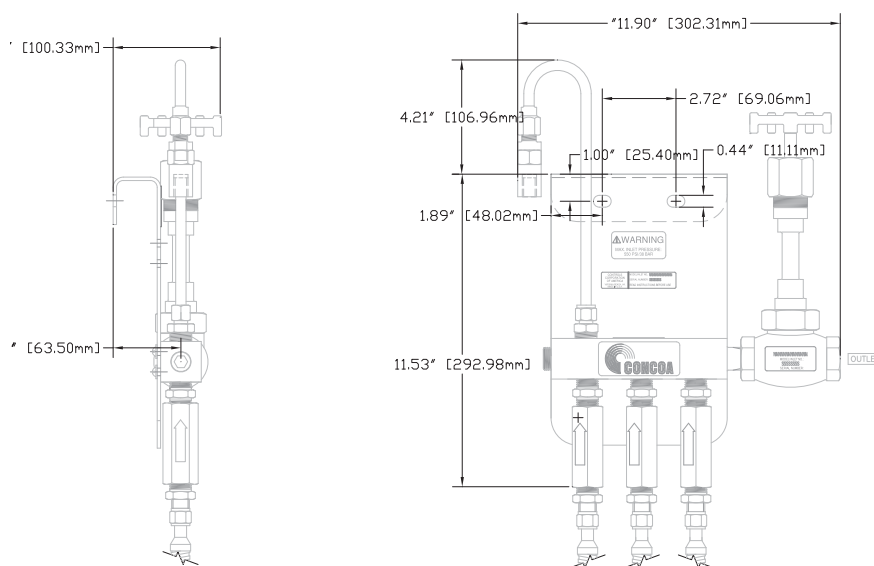
Weight (Manifold & bracket)

14.5 lbs. (6.58kg.)

# MANIFOLDS



## System Diagram



## Ordering Information

Series	A Manifold Type	B Arrangement	C Pigtail Style	D Number of Stations	E Mounting Style	F Inlet	G Options
630		0: Simplex RH	0: No Pigtails	0: Zero Pigtails (3 station)*			
	1: Liquid Manifold	1: Simplex LH	1: 48" Stainless Steel CGA 295	1: One	01: Wall Mounting Bracket	001	P: Pipe Away Option
		2: Duplex RH & LH	2: 48" Stainless Steel CGA 440	2: Two	02: Tank Mounting Bracket		
				3: Three			
			4: 72" Stainless Steel CGA 295	4: Four			
			5: 72" Stainless Steel CGA 440	5: Five			
			6: 48" Stainless Steel CGA 320	6: Six			
			7: 72" Stainless Steel CGA 320	7: Zero Pigtails (6 Station)*			
			8: 48" Stainless Steel CGA 622				
			9: 72" Stainless Steel CGA 622				

\* D=0 or 7 Includes check valve and adapter.

## Related Options

Option	Stock No.	Description
Cryogenic Liquid Hoses	See pg. 51	Liquid Transfer hoses
Inert Brass Adapter	550-0760	1/2" M-NPT and CGA 295, Brass
Oxygen Brass Adapter	835-0046	1/2" M-NPT and CGA 440, Brass
Brass Nipple	830-6475	1/2" M-NPT by 1" Nipple, Brass
Cryogenic Check Valve	835-0034	1/2" F-NPT, Brass