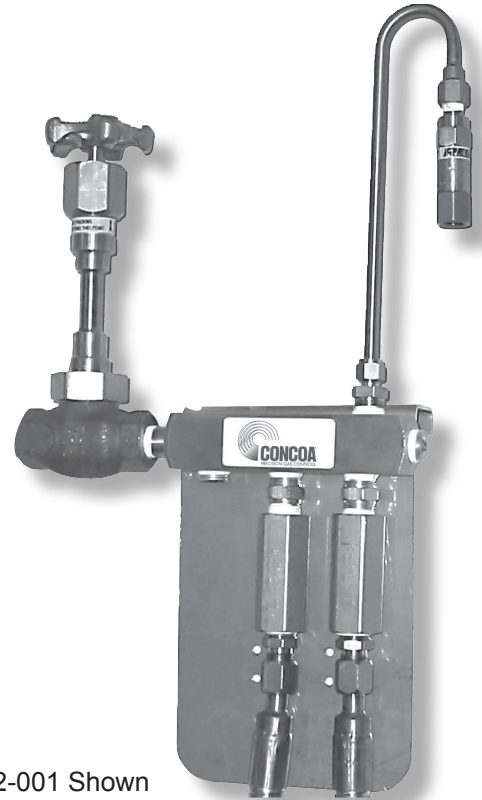


# MANIFOLDS



## 630 SERIES CRYOGENIC MANIFOLD

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 PSIG MWP, the 630 has the flexibility to optimize 230, 350, and 500 PSIG-rated liquid cylinders. This solution is ideal for laser, furnace blanketing, and other high-flow applications.



630 1122-02-001 Shown

### Advanced Features

#### Optional Pipe Away Relief

Prevents over-pressurization

#### 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 PSIG in excess of 4000 SCFH

### Applications

#### Cryogenic Laser Assist

Nitrogen  
Oxygen

#### High-flow Blanketing

Carbon Dioxide  
Inert gases

#### Gas Blending

Argon primary supply

### Materials

#### Manifold Block

Brass barstock

#### Check Valve

Brass

#### Cryogenic Globe Valve Body

Bronze

#### Cryogenic Globe Valve Seat

PCTFE

#### Pipe Away Relief Valve Assembly

Brass barstock

#### Hose Core

Stainless steel

#### Hose Fittings

Brass or stainless steel

#### Hose Casing

Armored stainless steel

### Specifications

#### Maximum Inlet Pressure

550 PSIG (38 BAR)

#### Temperature Range

-320°F to 165°F (-195°C to 75°C)

#### Inlet Connections

CGA 295  
CGA 320  
CGA 440  
CGA 622

#### Outlet Connections

1/2" FNPT

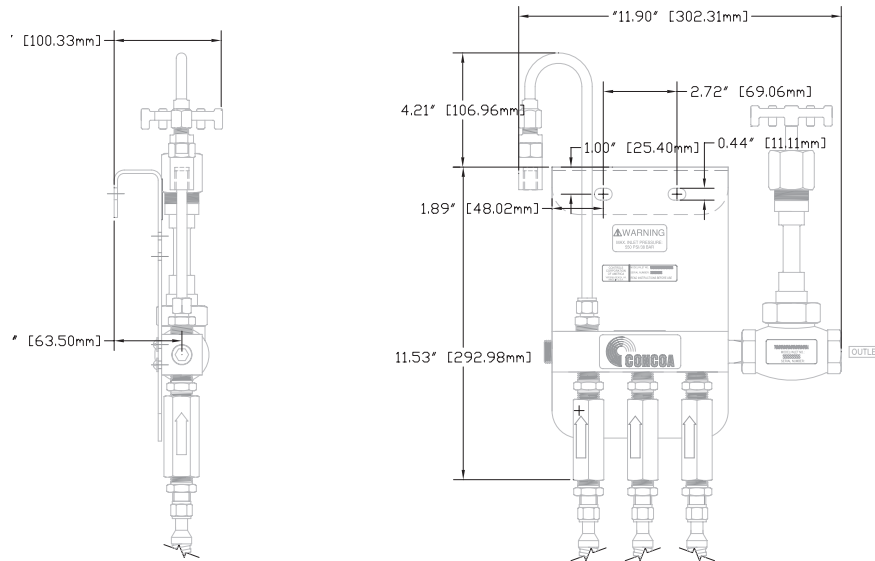
#### Weight (Manifold & Bracket)

14.5 lbs. (6.58kg.)

# MANIFOLDS



## Mounting and Dimensional Information for the 630 Series Cryogenic Manifold



DISTRIBUTION SYSTEMS

### Ordering Information

Series	Manifold Type	Orientation	Hose Style and Adapter	Number of Stations	Mounting Style	-001	Options
630	1: Liquid Manifold	0: Right-hand outlet	0: No Hoses	0: Zero Hoses (three station)*	01: Wall Mounting Bracket		P: Pipe Away Option
		1: Left-hand outlet	1: 48" Stainless Steel CGA 295	1: One	02: Tank Mounting Bracket		
	2: Two systems (One right-hand and one left-hand outlet)	2: 48" Stainless Steel CGA 440	2: Two				
		4: 72" Stainless Steel CGA 295	3: Three				
		5: 72" Stainless Steel CGA 440	4: Four				
		6: 48" Stainless Steel CGA 320	5: Five				
		7: 72" Stainless Steel CGA 320	6: Six				
		8: 48" Stainless Steel CGA 622	7: Zero Hoses (six station)*				
		9: 72" Stainless Steel CGA 622	<i>Includes check valve only</i>				

### Related Options

Part Number	Option	Description
See page 50	Cryogenic Liquid Hoses	Liquid Cylinder Hoses
550 0760	Brass CGA Adapter for Inerts	1/2" MNPT and CGA 295, Brass
835 0046	Stainless Steel CGA Adapter for Oxygen	1/2" MNPT and CGA 440, Stainless Steel
529 0002-320	Stainless Steel CGA Adapter for Carbon Dioxide	1/2" MNPT and CGA 320, Stainless Steel
529 0268	Brass CGA Adapter for Carbon Dioxide	1/2" MNPT and CGA 622, Brass
830 6475	Stainless Steel Nipple	1/2" MNPT by 1-11/16" Nipple, Stainless Steel
830 6435	Brass Nipple	1/2" MNPT by 1-11/16" Nipple, Brass
835 0034	Cryogenic Check Valve	1/2" FNPT, Brass