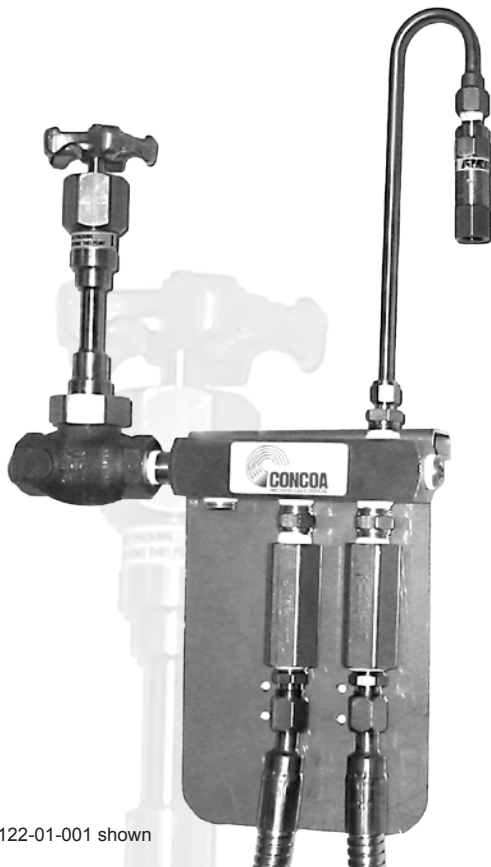


# 630 SERIES

**Assist**  
Gas Supply

## 630 SERIES AUTOSWITCH



6301122-01-001 shown

The 630 Series Manifold allows the cryogenic supply of four liquid cylinders to be safely combined. The modular design system may be expanded to accommodate additional liquid cylinders. When coupled with the 629 Vent Kit, users can significantly extend the flow range of common cylinders. The 630 is ideal for laser, furnace blanketing, and other high-flow applications

### Advanced Features

**PIPE AWAY RELIEF (OPTIONAL)** Prevents overpressurization

**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 MOUNTED** Enables wall or portable mounting

**OPTIONAL AUXILIARY PRESSURE BUILDING KIT** Maintains 450 PSIG (31 BAR) in excess of 4000 SCFH (890 lpm)

### Applications

**Cryogenic Laser Assist**

Nitrogen  
Oxygen

**High Flow Blanketing**

Carbon Dioxide  
Inert Gases

**Gas Blending**

Argon primary supply

### Materials

**Body**

Brass barstock

**Master Valve**

PCTFE (seat)  
Bronze (body)  
Stainless steel (stem, spring, and washer)  
PTFE (seals)

**Cryogenic Check Valves**

Brass (body)  
Stainless steel (seat, spring, and piston)

**Flexible Hose**

Stainless steel (core, casing, and fittings)

### Specifications

**Maximum Inlet Pressure**

550 PSIG (38 BAR)

**Temperature Range**

-320°F to 165°F (-195°C to 74°C)

**Inlet Connections**

CGA 295  
CGA 440

**Outlet Connections**

1/2" FPT

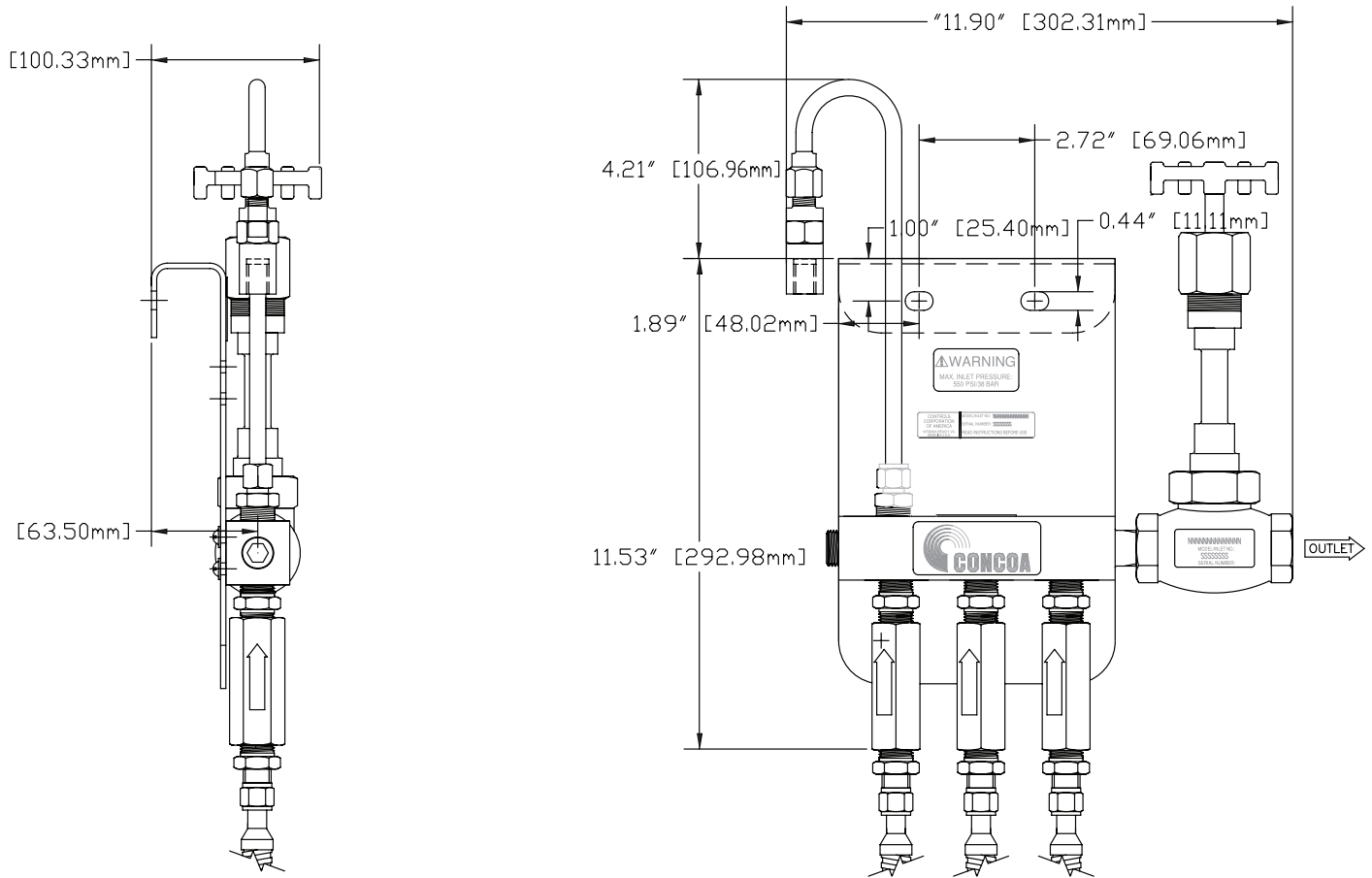
**Helium Leak Integrity**

1 x 10<sup>-8</sup> scc/sec

**Weight (Manifold & Bracket)**

14.5 lbs. (6.58 kg.)

## Installation Dimensions



Assist Gas Supply

## Ordering Information

630	A	B	C	D	E	CON	F
Series 630	Manifold Type	Arrangement	Hose Style and Cylinder Connections	No. of Stations	Mounting Style	linlet	Options
	1: Liquid manifold	0: Right-hand (simplex)	1: 48" (1200mm) stainless steel CGA 295	1: One station	01: Wall mounting bracket	001	P: Pipe away option
		1: Left-hand (simplex)	2: 48" (1200mm) stainless steel CGA 440	2: Two stations	02: Tank mount bracket		
		2: Left and right-hand (duplex)	4: 72" (1800mm) stainless steel CGA 295	3: Three stations			
			5: 72" (1800mm) stainless steel CGA 440	4: Four stations			
				5: Five stations			
				6: Six stations			

## Related Options

Option	Stock No.	Description
Cryogenic Liquid Hoses	See page 55	Liquid transfer hoses
Brass Nipple	830-6435	1/2" MPT x 1" MPT nipple, brass
Cryogenic Check Valve	835-0034	1/2" FPT, brass