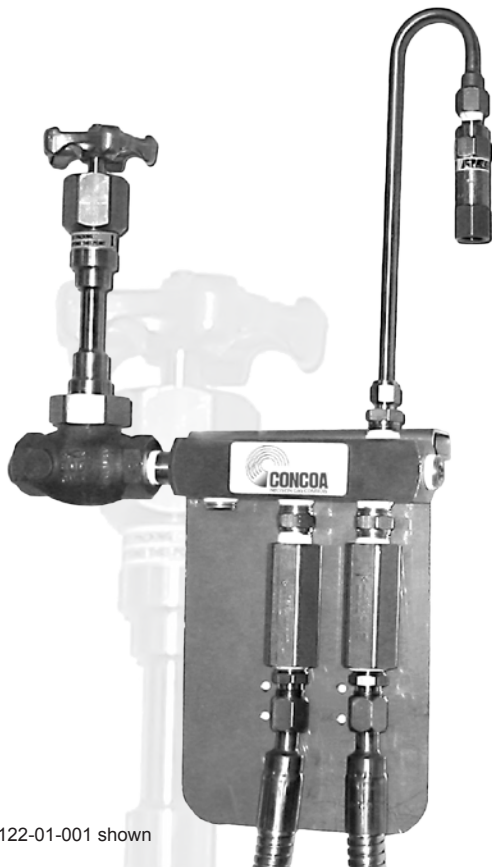


630 SERIES

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

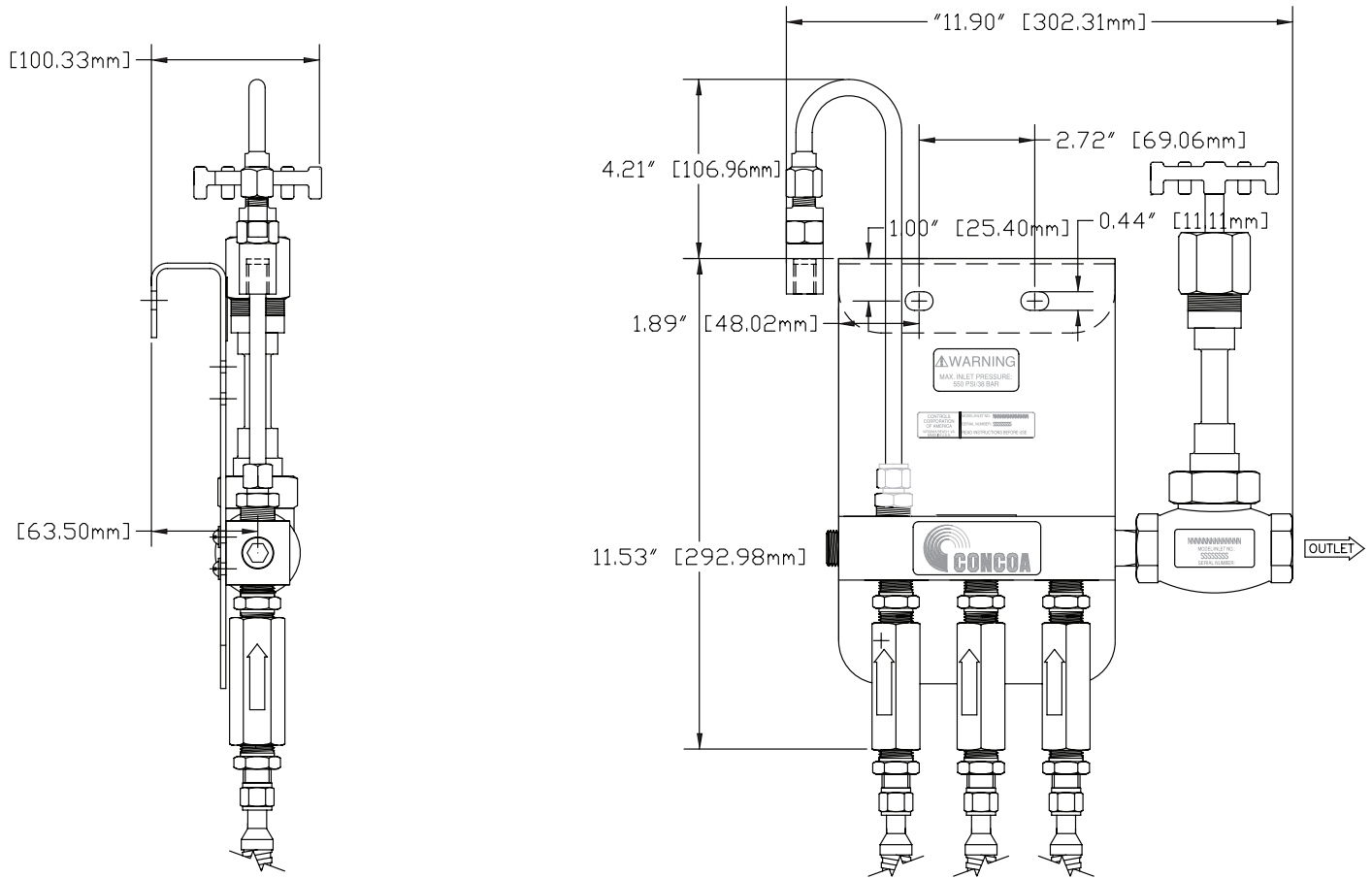
Helium Leak Integrity

1 x 10⁻⁸ scc/sec

Weight (Manifold & Bracket)

14.5 lbs. (6.58 kg.)

Installation Dimensions



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 | ½" MPT x 1" MPT nipple, brass |
| Cryogenic Check Valve | 835-0034 | ½" FPT, brass |