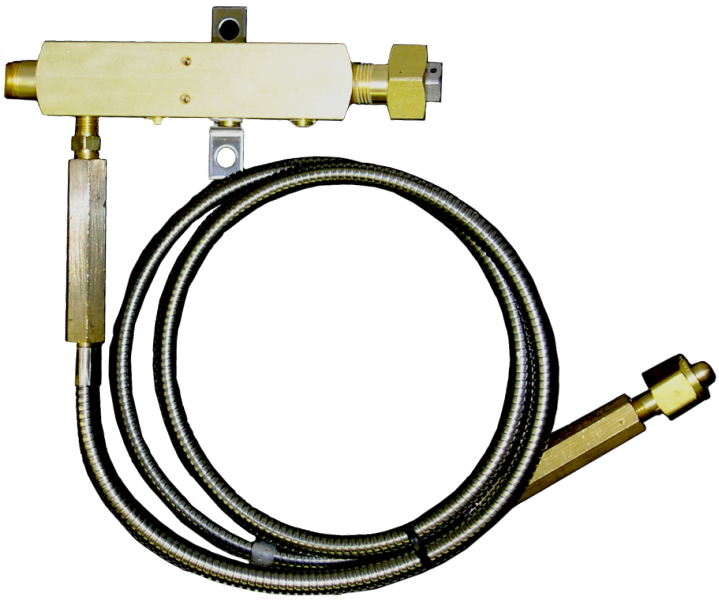
629 Series MicroManifold

The 629 Series MicroManifold is a flexible gas distribution system that can be configured as a gas or vent manifold. Configured as a gas manifold, the 629 offers excellent gaseous flow capacity from either liquid or high-pressure cylinders to a CONCOA pressure control device. Configured as a vent manifold, the 629 MicroManifold equalizes the head space pressure of each liquid cylinder manifolded together. This allows each cylinder to withdraw equally and operate at maximum flow capacity with minimal losses.

Typical Applications

- Cryogenic Laser Assist
- High Flow Blanketing
- Gas Blending



6291064-01-540 shown

Features

Vent Manifold Excess Flow Orifices prevent hoses from whipping

Safety Disk protects manifold from overpressurization

Compact Modular Design provides simple field expandability

Multiple Cylinder Hose Options support universal gas compatibility

Integrated 1/2 in MNPT Outlet Connector reduces potential leak sites

Materials and Specifications

Maximum Inlet Pressure: 4500 PSIG (310 BAR)

Inlet Connections: 1/4 in FNPT

Outlet Connections: 1/2 in MNPT

Manifold Block: Brass barstock

Hoses: Brass, copper, or stainless steel

Hose Core: Monel®, brass, copper, stainless steel, or PTFE

Temperature Range: -320°F to 165°F (-195°C to 75°C)

Weight (manifold and bracket): 14.5 lbs (6.5 kg)

Conformances: Cleanliness meets or exceeds CGA G-4.1; CRN OH15806.5 (Body); CRN OD18143.5 (Hoses)

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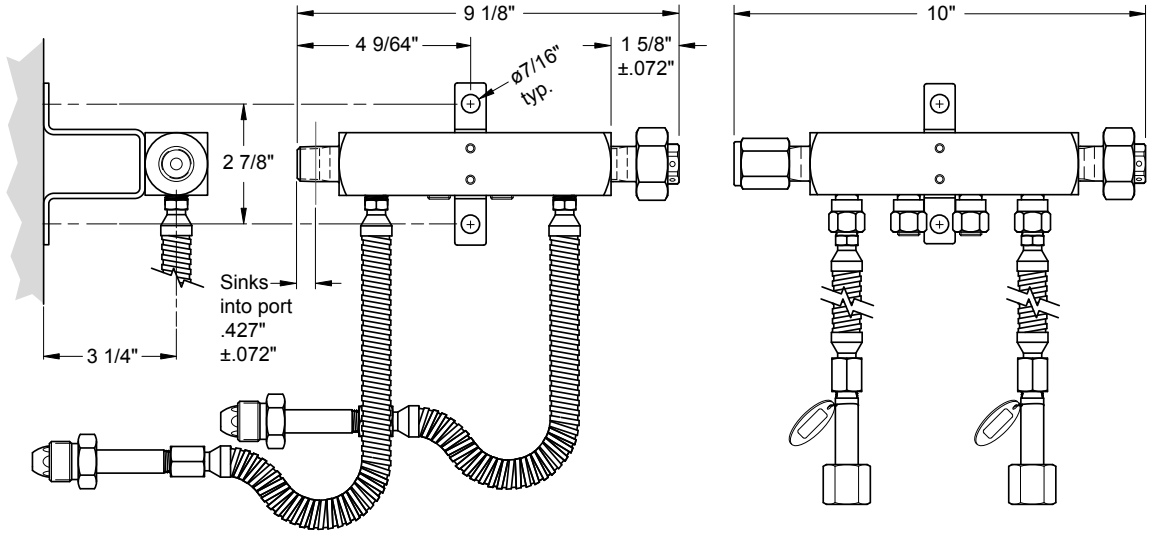
CONCOA PRECISION GAS CONTROLS

Installation Dimensions



Ordering Information

Series	A	B	C	D	-CON	Options
629	**Manifold Type (Gauge)**	**Orientation**	**Hose Style**	**Stations / Side**	**Cylinder Connections**	
	1: Gas MicroManifold (No Gauges)	**0:** Simplex right bank	**0:** No hoses	**1:** One	*Please specify inlet connection*	**F:** Flashback Arrestors on each Hose with CGA 300, 415, or 510*
	2: Vent MicroManifold (No Gauges)	**1:** Simplex left bank	**1:** 36" Rigid Brass*	**2:** Two	*Use -001 for hose style 0.*	**Acetylene requires Flashback Arrestors on hoses.*
	3: Gas MicroManifold (0-400 PSIG/0-2500 kPa gauges)	**2:** Duplex right and left bank	**2:** 24" Rigid Copper*	**3:** Three	*CGA DIN 477 BS 341 and others available.*	
	4: Gas MicroManifold (0-600 PSIG/0-40 BAR gauges)	**3:** Simplex right bank with pressure switch gauge*	**3:** 72" Flexible Stainless Steel Core and Armor Case*	**4:** Four	*Use CGA 295, 440, 622, or 624 for hose style A.*	
	5: Gas MicroManifold (0-4000 PSIG/0-2500 kPa gauges)	**4:** Simplex left bank with pressure switch gauge*	**4:** 24" Flexible Stainless Steel-braided with PTFE Core*	**5:** Five	*PTFE-lined hoses for Oxygen service include accumulator extensions to prevent ignition from adiabatic compression.*	
	6: Gas MicroManifold (0-4000 PSIG/0-280 BAR gauges)	**5:** Duplex right and left bank with pressure switch gauge*	**5:** 36" Flexible Stainless Steel Core and Armor Case*	**6:** Six		
	7: Gas MicroManifold (0-6000 PSIG/0-40,000 kPa gauges)	**Valid with Manifold Type 4, 6, and 8.*	**6:** 36" Flexible Stainless Steel-braided with PTFE Core*	**7:** Seven	*PTFE-lined hoses not for use with Helium or Hydrogen.*	
	8: Gas MicroManifold (0-6000 PSIG/0-420 BAR)		**7:** 24" Flexible Stainless Steel Core and Armor Case*	**8:** Eight		
			9: 72" Flexible Stainless Steel-braided with PTFE Core*			
			A: 72" Flexible Stainless Steel-braided with PTFE Core (CGA 622, 624) or Stainless Steel Core and Armor Case (CGA 295, 440)†			
			C: 24" Flexible Stainless Steel-braided with PTFE Core*			
			D: 36" Flexible Stainless Steel-braided with PTFE Core*			
			E: 72" Flexible Stainless Steel-braided with PTFE Core*			
			K: 72" Flexible Stainless Steel Core and Armor Case 4,500 PSI**			
			L: 36" Flexible Stainless Steel Core and Armor Case 4,500 PSI**			
			**Valid with Manifold Type 1, 3, 4, 5, and 6.*			
			†Valid with Manifold Type 2.			
			***Valid with Manifold Type 7 or 8.*			

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Related Options

Part Number	Option	Description
829 9960	Burst Disk Kit	1/2" MNPT Replacement Burst Disk Kit
829 9961	Gas Extension Kit	Four cylinder manifold extension block with mounting hardware
829 9962	Vent Extension Kit	Four cylinder vent manifold extension block with mounting hardware
830 7437	Floor Stand	Manifold Floor Stand supports up to two consecutive manifold extensions
92250008	Plug	1/4" MNPT brass hex plug
801 7011	3/8"High Flow Fuel Gas Flashback Arrestor	Fuel Flashback Arrestors. Use of Acetylene requires flashback arrestors on hoses. Meets OSHA and NFPA std. 51 requirements and complies with ISO 5175 (heavy colas) DIN 8521, and BS 6158
801 7015	1" FNPT Fuel Gas Flashback Arrestor	
801 7012	3/8" High Flow Oxygen Flashback Arrestor	Use of Acetylene requires flashback arrestors on hoses. Meets OSHA and NFPA std. 51 requirements and complies with ISO 5175 (heavy colas) DIN 8521, and BS 6158
801 7016	1" FNPT Oxygen Flashback Arrestor	