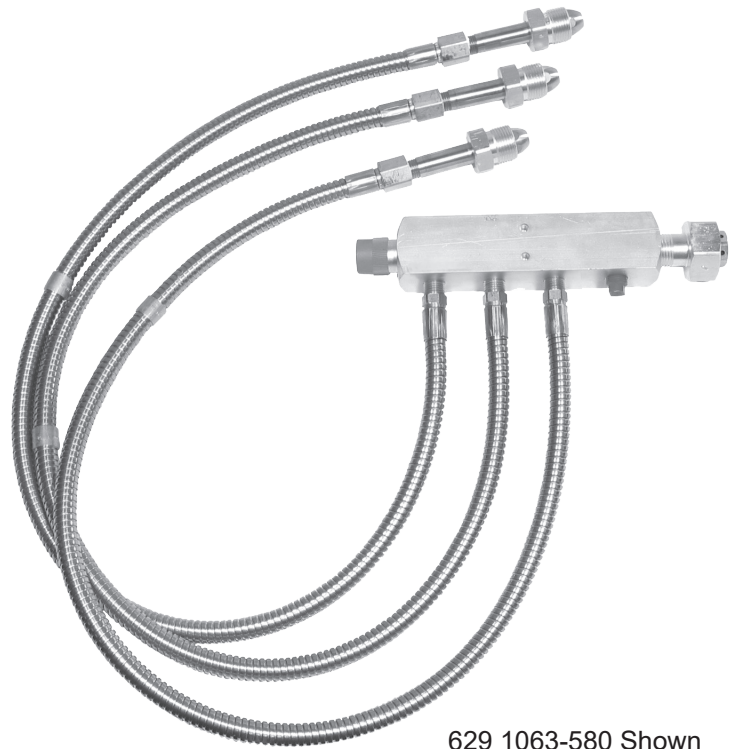


# MANIFOLDS



## 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 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.



629 1063-580 Shown

### Advanced Features

**Vent Manifold Excess Flow Orifices**

Prevents hoses from whipping

**Safety Disk**

Protects manifold from over pressurization

**Compact Modular Design**

Provides simple field expandability

**Multiple Cylinder Hose Options**

Universal gas compatibility

**Integrated 1/2" MNPT Connector**

Reduces potential leak sites

**Flexible Design**

Can be used with a 600 Series switchover or a 623 Series delivery system

### Applications

**Cryogenic Laser Assist**

Nitrogen  
Oxygen

**High-flow Blanketing**

Carbon Dioxide  
Inert gases

**Gas Blending**

Argon primary supply

### Materials

**Manifold Block**  
Brass barstock

**Flexible Hose**  
Rigid copper  
Stainless steel

**Flexible Hose Core**  
Rigid copper  
Stainless steel  
PTFE

### Specifications

**Maximum Inlet Pressure**  
4500 PSIG (310 BAR)

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

**Inlet Connections**  
1/4" FNPT

**Outlet Connections**  
1/2" MNPT

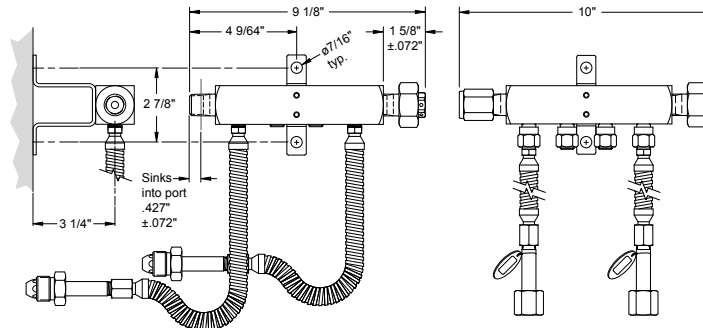
**Weight (manifold & bracket)**  
14.5 lbs. (6.58kg.)

CRN 0H15806.5

# MANIFOLDS



## System Diagram



DISTRIBUTION SYSTEMS

## Ordering Information

Series	Manifold Type (Gauge)	Orientation	Hose Style	Stations/Side	-Cylinder Connection	Options
629	1: Gas MicroManifold (No Gauges)	0: Simplex right bank	0: No Hoses	1: One	Please specify inlet connection	F: Flashback Arrestor
	2: Vent MicroManifold (No Gauges)	1: Simplex left bank	2: 24" Rigid Copper*	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	3: 72" Flexible Stainless Steel Core and Armor Cased*	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*	4: 24" Flexible Stainless Steel-Braided with PTFE Core*	4: Four	Use CGA 295, 440, or 622 for hose style A	
	5: Gas MicroManifold (0-4000 PSIG/0-2500 kPa Gauges)	4: Simplex left bank with pressure switch gauge*	5: 36" Flexible Stainless Steel Core and Armor Cased*	5: Five	To prevent adiabatic ignition PTFE core hoses for Oxygen service include distance volume pieces and stainless core hoses are Monel core.	
	6: Gas MicroManifold (0-4000 PSIG/0-280 BAR Gauges)	5: Duplex right and left bank with pressure switch gauge*	6: 36" Flexible Stainless Steel-Braided with PTFE Core*	6: Six	PTFE-lined hoses not for use with Helium or Hydrogen.	
	7: Gas MicroManifold (0-6000 PSIG/0-40,000 kPa Gauges)		7: 24" Flexible Stainless Steel Core and Armor Cased*	7: Seven		
	8: Gas MicroManifold (0-6000 PSIG/0-420 BAR)		9: 72" Flexible Stainless Steel-Braided with PTFE Core*	8: Eight		
				A: 72" Flexible Stainless Steel-Braided with PTFE Core†		
				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 Cased 4,500 PSI**			
		*Valid with Manifold Type 4, 6, and 8	*Valid with Manifold Type 1, 3, 4, 5, and 6			
			†Valid with Manifold Type 2			
			**Valid with Manifold Type 7 or 8			

## 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	Single manifold floor stand provides support for up to two consecutive manifold extensions
92250008	Plug	1/4" MNPT brass hex head plug
801 7011 801 7015	Fuel Gas Flashback Arrestors	Use of Acetylene requires flashback arrestors on hoses. Meets OSHA and NFPA Std. 51 requirements and complies with ISO 5175 (heavy class) DIN 8521, and BS 6158 (See page 54)
801 7012 801 7016	Oxygen Flashback Arrestors	Use of Acetylene requires flashback arrestors on hoses. Meets OSHA and NFPA Std. 51 requirements and complies with ISO 5175 (heavy class) DIN 8521, and BS 6158 (See page 54)