

52L SERIES Vent MicroMANIFOLD



The 52L Series Vent MicroManifold offers a compact and reliable solution for safely venting residual gas pressure from cryogenic liquid cylinders in multi-cylinder lab installations. Configured as a vent manifold, the 52L equalizes headspace pressure across connected liquid cylinders, enabling equal withdrawal and maximizing flow capacity with minimal product loss. By venting vaporized gas from the liquid supply source, it prevents cross-contamination, protects downstream equipment, and ensures proper line de-pressurization. The 52L Series MicroManifold can also be configured as a gas micromanifold for systems using high pressure gas cylinders, offering flexibility across various gas delivery installations.



52L 1053-580 shown

Typical Applications

- Laboratory Cryogenic Gas Distribution
- Incubator and Biotechnology Environments
- Liquid Nitrogen (LN₂), Argon, or CO₂ Supply Systems
- Gas Delivery and Vent Manifold from Liquid Cylinders

Features

Safety Disk protects manifold from overpressurization

Compact Modular Design supports future growth capability

Multiple Cylinder Hose Options permits universal gas compatibility

Materials and Specifications

Maximum Inlet Pressure: 3000 PSIG (210 BAR); or 4500 PSIG (310 BAR) optional

Body: Brass barstock

Inlet Connections: Four 1/4 in FNPT; One 1/2 in FNPT

Outlet Connection: 1/2 in MNPT

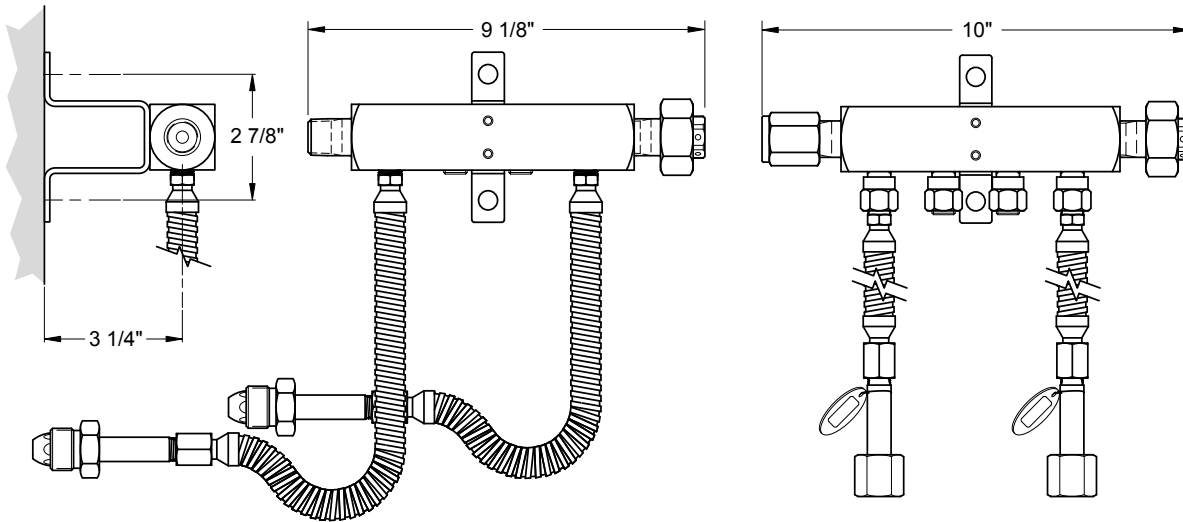
Flexible Hoses: 316L stainless steel; Monel® inner core for oxygen service

Temperature Range: 0°F to 140°F (-18°C to 60°C)

Weight: 4.2 lbs (1.9 kg)

Conformances: CRN OH15806.5

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52L-1152-580 MicroManifold

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Ordering Information

52L	A	B	C	D	-CON
Series 52L	Manifold Type (Gauge)	Orientation	Hose Style	Cylinder Side	Inlet Connections
	1: Gas MicroManifold (No gauges)	0: Simplex right bank	0: No hose	1: One	<i>Please specify inlet connection.</i>
	2: Vent MicroManifold (No gauges)	1: Simplex left bank	3: 72" (1800mm) flexible stainless steel core and armor cased**	2: Two	
	3: Gas MicroManifold (0-400 PSIG/0-2500 kPa gauges)	2: Duplex right and left bank	5: 36" (900mm) flexible stainless steel core and armor cased**	3: Three	<i>Use -001 for hoses option 0.</i>
	4: Gas MicroManifold (0-600 PSIG/0-40 BAR gauges)	3: Simplex right bank with pressure switch gauge*	7: 24" (600mm) flexible stainless steel core and armor cased**	4: Four	
	5: Gas MicroManifold (0-4000 PSIG/0-2500 kPa gauges)	4: Simplex left bank with pressure switch gauge	A: 72" Flexible Stainless Steel-Braided with PTFE Core (CGA 622, 624) or Stainless Steel Core and Armor Cased (CGA 295, 440) for liquid cylinder vent use†	5: Five	<i>Use CGA 295, 440, 622, or 624 for hose style A</i>
	6: Gas MicroManifold (0-4000 PSIG/0-280 BAR gauges)	5: Duplex right and left bank with pressure switch gauge*	K: 72" (1800mm) stainless steel core and armor cased††	6: Six	
	7: Gas MicroManifold (0-6000 PSIG/0-40,000 kPa gauges)	*Valid with Manifold Type 4, 6, and 8	L: 36" (900mm) stainless steel core and armor cased††	7: Seven	
	8: Gas MicroManifold (0-6000 PSIG/0-420 BAR)		**Valid with Manifold Type 1, 3, 4, 5, and 6 †Valid with Manifold Type 2 ††Valid with Manifold Type 1, 7, and 8	8: Eight	
				0: Zero	

Related Options

Part Number	Option	Description
829 9960	Burst Disk Kit	1/2" MNPT replacement burst disk kit
830 7437	Floor Stand	Single manifold floor stand provides support for up to two consecutive manifold extensions