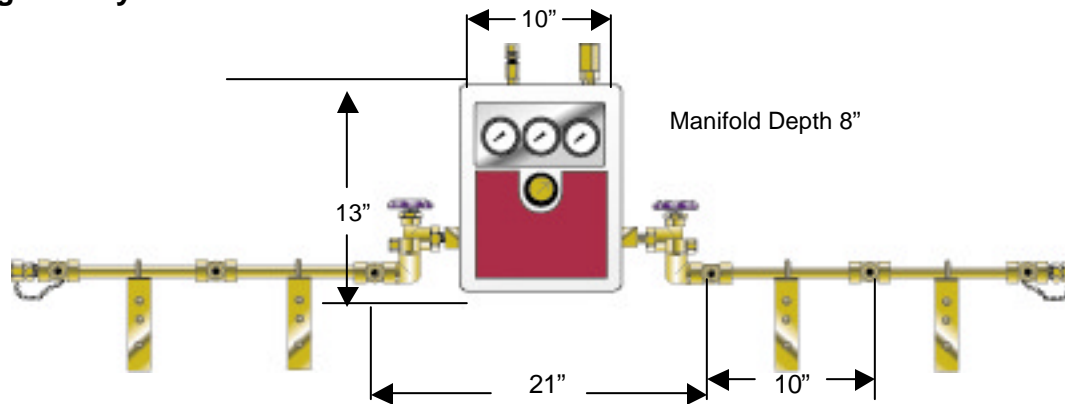


Manifolds

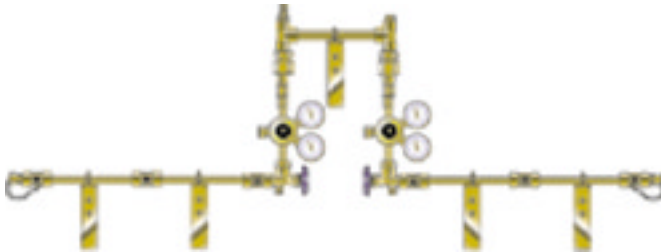
High Purity Brass Manifolds



Western Innovator HBAC2 manifolds are designed and manufactured for high-purity gas delivery applications requiring uninterrupted gas flow and greater cylinder capacities. User friendly and easy to operate, a simple rotation of the control knob resets the unit. Factory-set functional components are protected inside a tamper proof case. A self-contained alarm system clearly indicates the

system status. A green light means the service bank is functioning and the reserve bank is ready for service. A red light alerts the user that the unit has changed over and one or both banks have been depleted. Dry contacts in the unit's power supply box allow connection to remote alarm systems. (Up to 3 amp 30 VDC or 2 amps 250 VAC)

HBAD2



Western innovator HBAD2 provides uninterrupted high purity gas flow at an economical price. A simple adjustment of the manifold regulator is required following the system's automatic changeover



Western Innovator HBMS2 provides increased cylinder usage and high purity gas to applications not requiring uninterrupted flow

Specifications:

- Stainless steel diaphragm regulators
- Helium leak rate integrity
• 2×10^6 sec/sec
- Maximum in let pressure 3000 psig (2000 psi for CO₂ & N₂O systems)
- Maximum flow rate:

HBAC	250 scfh
Acetylene	20 scfh
HBAD2 & HBMS2	200 scfh
- Delivery pressure range

Lab1	30-100 psig
Acetylene	0-15 psig
Lab1HP	50-200 psig
- Manifold outlet: ¼" OD tube
- ½" Brass, silver brazed headers
- 24" flexible stainless steel pigtailed with check valves

Manifolds



High Purity Brass Manifolds

Design Lengths HBAC2 / HBAD2 / HBMS2

Total No. of Cylinders	2	4	6	8	10	12	16	20
HBAC2 Standard (10" centers) Overall Manifold Length	2' 3" (0.70m)	3' 11" (1.2m)	5' 7" (1.83m)	7' 3" (2.21m)	8' 11" (2.72m)	10' 7" (3.23m)	13' 11" (4.24m)	17' 3" (5.26m)
HBAC2 Staggered Design (5" centers) Overall Manifold Length	2' 3" (0.70m)	3' 1" (0.94m)	3' 11" (1.2m)	4' 9" (1.45m)	5' 7" (1.7m)	6' 5" (1.96m)	8' 1" (2.46m)	9' 9" (2.97m)
HBAC2 Vertical Crossover (10" Centers) Overall Manifold Length	N/A	2' 3" (0.7m)	N/A	3' 11" (1.2m)	N/A	5' 7" (1.7m)	7' 3" (2.21m)	8' 11" (2.72m)
HBAC2 Standard (13" Centers) Overall Manifold Length	2' 3" (0.70m)	4' 5" (1.35m)	6' 7" (2.0m)	8' 9" (2.79m)	10' 11" (3.3m)	13' 1" (4.0m)	17' 5" (5.31m)	21' 9" (6.63m)
HBAC2 Staggered Design (6.5" centers) Overall Manifold Length	2' 3" (0.70m)	3' 4" (1.0m)	4' 5" (1.35m)	5' 6" (1.67m)	6' 7" (2.0m)	7' 8" (2.34m)	9' 10" (3.0m)	12' 9" (3.66m)

Total No. of Cylinders	2	3	4	5	6	7	8
HBAD2 Standard (10" centers) Overall Manifold Length	1' 6" (0.43m)	N/A	3' 2" (.97m)	N/A	4' 0" (1.47m)	N/A	6' 6" (1.98m)
HBAD2 Staggered Design (5" centers) Overall Manifold Length	1' 6" (0.43m)	N/A	2' 4" (0.71m)	N/A	3' 2" (0.97m)	N/A	4' 0" (1.96m)
HBAD2 Vertical Crossover (10" Centers) Overall Manifold Length	N/A	N/A	1' 6" (0.43m)	N/A	N/A	N/A	3' 2" (.97m)

Total No. of Cylinders	2	3	4	5	6	7	8
HBMS2 Standard (10" centers) Overall Manifold Length	1' 5" (0.45m)	2' 3" (0.69m)	3' 1" (0.84m)	3' 11" (1.19m)	4' 9" (1.45m)	5' 7" (1.70m)	6' 5" (1.96m)
HBMS2 Staggered Design (5" centers) Overall Manifold Length	1' 0" (0.30m)	1' 5" (0.43m)	1' 10" (0.56m)	2' 3" (0.69m)	2' 8" (0.81m)	3' 1" (0.94m)	3' 6" (1.07m)
HBMS2 Vertical Crossover (10" Centers) Overall Manifold Length	1' 5" (0.45m)	N/A	2' 3" (0.69m)	N/A	3' 1" (0.84m)	N/A	3' 11" (1.19m)

Ordering Information

Specify: Control Type (V) – Service (W) – Number of Cylinders (X) Header Configuration (Y) Mounting (Z)				
<i>Example 1:</i> HBAC2-5-6 = Model HBAC, Helium service for 6 total cylinders 10 inches on center, wall mounted				
Control Type (V)	Gas Service (W)	No. of Cyls (X)	Header Configuration (Y)	Mounting (Z)
HBAC2 (30-100 psig)	(1) Acetylene (POL) CGA 510 (1A) Acetylene (commercial) CGA 300		Blank- Standard 10" on center 13" on center for Acetylene & LPG	Blank = Wall Mount
HBAC2HL (30-100 psig) (includes 500 scfh header)	(2) Breathing Air CGA 346 (2A) Zero Air CGA 590		S- Staggered 5" on center 6.5" on center for Acetylene & LPG	
HBAC2HP (50-200 psig)	(3) Argon CGA 580 (4) Carbon Dioxide CGA 320		V- Vertical crossover Standard 10" on center 13" on center for Acetylene & LPG	F = Floor Mount
HBAD2 (30-100 psig)	(5) Helium CGA 580 (6) Hydrogen CGA 350		C- Crossover (Floor Mount Only) Standard 10" on center 13" on center for acetylene & LPG	
HBMS2 (20-150 psig)	(6A) Argon/Methane Mixtures CGA 350 (7) Nitrogen CGA 580 (8) Nitrous Oxide CGA 326 (9) Oxygen CGA 540		U- Shaped - Drawing Required L- Shaped - Drawing Required	

For ordering and technical support (858) 578-2622
WestAir Gases & Equipment, Inc.