

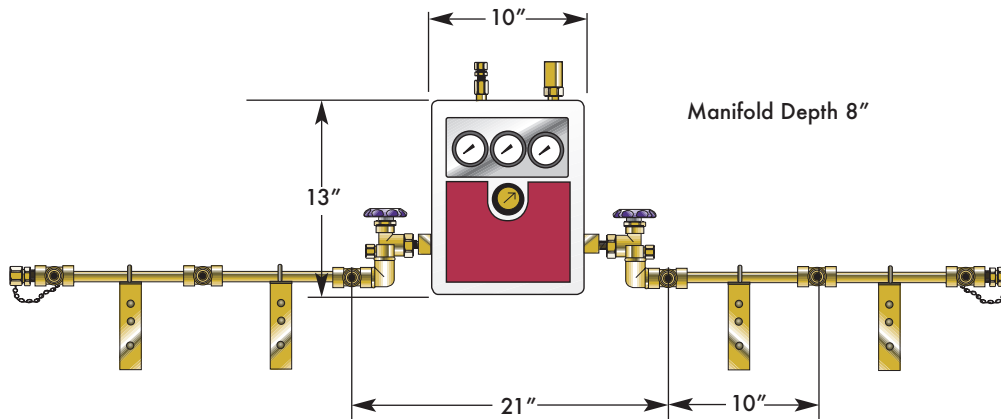
HIGH PURITY BRASS MANIFOLDS

specifications

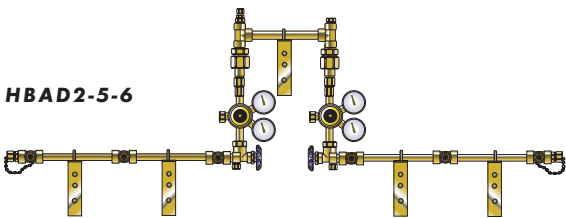
- Stainless steel diaphragm regulators.
- Helium leak rate integrity 2×10^{-6} scc/sec.
- Maximum inlet pressure 3000 psig. (2000 psi for CO₂ & N₂O systems)
- Maximum flow rate:
 - HBAC2 250 scfh
 - Acetylene 20 scfh
 - HBAD2 & HBMS2 200 scfh
- Delivery pressure range:
 - HBAC2 30–100 psig
 - Acetylene 0–15 psig
 - HBAC2HP 50–200 psig
 - HBAD2 50–100 psig
 - HBMS2 20–150 psig
- Manifold outlet: 1/4" OD tube.
- 1/2" Brass, silver brazed headers.
- 24" flexible stainless steel lined pigtails with check valves.

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-resistant case. A self-contained alarm system

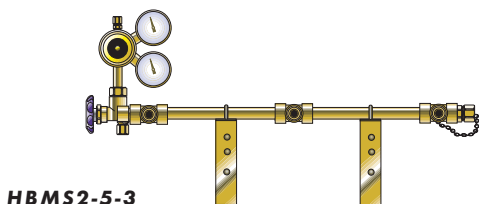
clearly indicates the system status. A green light means the service bank is functioning and the reserve bank is ready for service. A red light alerts the user that the unit has changed over and one or both banks are depleted. Dry contacts in the unit's power supply box allow connection to remote alarms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



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.



HOW TO ORDER

Specify: Control Type (V) - Service (W) - Number

Example : HBAC2-5-6 = Model HBAC2, Helium service

CONTROL TYPE (V)	GAS SERVICE (W)	# OF CYL'S (X)
HBAC2 (30 - 100 PSIG)	(1) Acetylene (POL)* (1A) Acetylene (Commercial)*	CGA-510 CGA-300
HBAC2HL (30 - 100 PSIG) (includes 500 SCFH heater)	(2) Zero Air (2A) Zero Air	CGA-346 CGA-590
HBAC2HP (50 - 200 PSIG)	(3) Argon (4) Carbon Dioxide	CGA-580 CGA-320
HBAD2 (30 - 100 PSIG)	(5) Helium (6) Hydrogen	CGA-580 CGA-350
HBMS2 (20 - 150 PSIG)	(6A) Argon/Methane (7) Nitrogen	CGA-350 CGA-580
	(8) Nitrous Oxide (9) Oxygen	CGA-326 CGA-540

*Not available for HBAD



Design Lengths HBAC2 / HBAD2 / HBMS2

TOTAL NO. OF CYLINDERS	2	4	6	8	10	12	16	20
HBAC2 Standard (10 inch centers) Overall Manifold Length	2' - 3" (.7m)	3' - 11" (1.2m)	5' - 7" (1.7m)	7' - 3" (2.21m)	8' - 11" (2.72m)	10' - 7" (3.23m)	13' - 11" (4.24m)	17' - 3" (5.26m)
HBAC2 Staggered Design (5 inch centers) Overall Manifold Length	2' - 3" (.7m)	3' - 1" (.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 inch centers) Overall Manifold Length	N/A	2' - 3" (.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) (Acetylene) Overall Manifold Length	2' - 3" (.7m)	4' - 5" (1.35m)	6' - 7" (2m)	8' - 9" (2.7m)	10' - 11" (3.3m)	13' - 1" (4m)	17' - 5" (5.31m)	21' - 9" (6.63m)
HBAC2 Staggered Design (6.5 inch centers) (Acetylene) Overall Manifold Length	2' - 3" (.7m)	3' - 4" (1m)	4' - 5" (1.35m)	5' - 6" (1.67m)	6' - 7" (2m)	7' - 8" (2.34m)	9' - 10" (3.00m)	12' - 9" (3.66m)
TOTAL NO. OF CYLINDERS	2	3	4	5	6	7	8	
HBAD2 Standard (10 inch centers) Overall Manifold Length	1' - 6" (.46m)	N/A	3' - 2" (.97m)	N/A	4' - 0" (1.47m)	N/A	6' - 6" (1.98m)	
HBAD2 Staggered (5 inch centers) Overall Manifold Length	1' - 6" (.46m)	N/A	2' - 4" (.71m)	N/A	3' - 2" (.97m)	N/A	4' - 0" (1.96m)	
HBAD2 Vertical Crossover (10 inch centers) Overall Manifold Length	N/A	N/A	1' - 6" (.46m)	N/A	N/A	N/A	3' - 2" (.97m)	
TOTAL NO. OF CYLINDERS	2	3	4	5	6	7	8	
HBMS2 Standard (10 inch centers) Overall Manifold Length	1' - 5" (.43m)	2' - 3" (.69m)	3' - 1" (.84m)	3' - 11" (1.19m)	4' - 9" (1.45m)	5' - 7" (1.70m)	6' - 5" (1.96m)	
HBMS2 Staggered Design (5 inch centers) Overall Manifold Length	1' - 0" (.30m)	1' - 5" (.43m)	1' - 10" (.56m)	2' - 3" (.69m)	2' - 8" (.81m)	3' - 1" (.94m)	3' - 6" (1.07m)	
HBMS2 Vertical Crossover & Crossover (10 inch centers) Overall Manifold Length	1' - 5" (.43m)	N/A	2' - 3" (.69m)	N/A	3' - 1" (.84m)	N/A	3' - 11" (1.19m)	



of Cylinders (X) Header Configuration (Y) Mounting (Z)

for 6 total cylinders 10 inches on center, wall mounted.

HEADER CONFIGURATION (Y)	MOUNTING (Z)
<p>BLANK - Standard 10 inches on center 13 inches on center for Acetylene & LPG</p> <p>S - Staggered 5 inches on center 6.5 inches on center for Acetylene & LPG</p> <p>V - Vertical crossover Standard 10 inches on center 13 inches on center for Acetylene & LPG</p> <p>C - Crossover (Floor Mount Only) Standard 10 inches on Center 13 inches on center for Acetylene & LPG</p> <p>U-Shaped - Drawing Required</p> <p>L-Shaped - Drawing Required</p>	<p>BLANK = Wall mount</p> <p>F = Floor mounted</p>