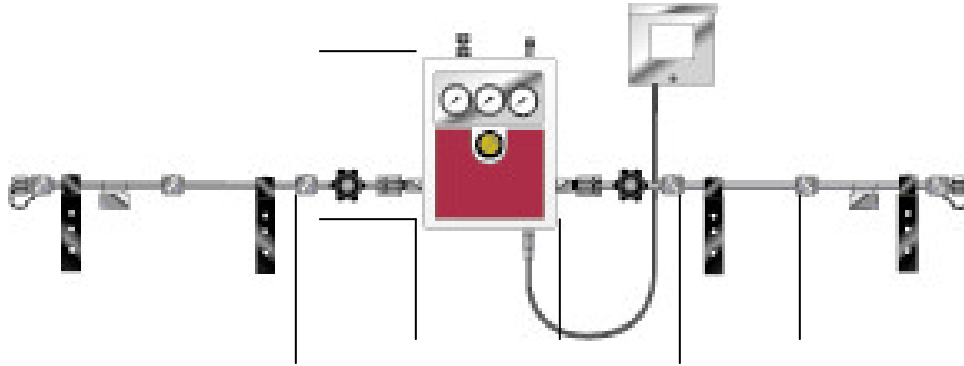


## Manifolds

### High Purity Stainless Steel Manifolds



Western Innovator HSAC 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

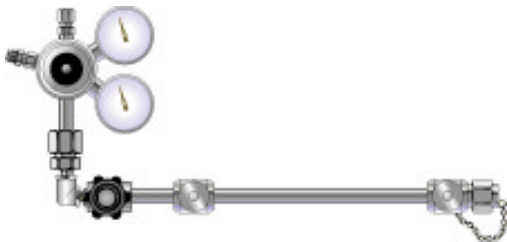
system status. A green light means the service bank is functioning and the reserve bank is ready for service. A red light alerts the user that the unit has changed over and one or both banks have been depleted. Dry contacts in the unit's power supply box allow connection to remote alarm systems. (Up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

#### HSAD2-5-4



*Western innovator HSAD2 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*

#### HSMS2-5-2



*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
- $2 \times 10^6$  sec/sec
- Maximum inlet pressure 3000 psig (2000 psi for CO<sub>2</sub> & N<sub>2</sub>O systems)
- Maximum flow rate 95 scfh (35 scfh for CO<sub>2</sub> & N<sub>2</sub>O systems)
- Delivery pressure range
 

HSAC	30-100 psig
HSACHP	50-200 psig
HSAD2	50-100 psig
HSMS2	20-150 psig
- Manifold outlet: ¼" OD tube
- Stainless orbital welded headers
- 24" flexible stainless steel pigtails with check valves

## Manifolds



### High Purity Stainless Steel Manifolds

#### Design Lengths HSAC / HSMS2 / HSAD2

Total No. of Cylinders	2	4	6	8	10	12	16
HSAC Standard (10" centers) Overall Manifold Length	3' 0" (0.91m)	4' 8" (1.42m)	6' 4" (1.93m)	8' 0" (2.44m)	9' 8" (2.95m)	11' 4" (3.45m)	14' 8" (4.47m)
HSAC Staggered Design (5" centers) Overall Manifold Length	3' 0" (0.91m)	3' 10" (1.17m)	4' 8" (1.42m)	5' 6" (1.67m)	6' 4" (1.93m)	7' 2" (2.18m)	8' 0" (2.44m)

Total No. of Cylinders	2	3	4	5	6	7	8
HSMS2 Standard (10" centers) Overall Manifold Length	1' 9" (0.53m)	2' 7" (0.79m)	3' 5" (1.04m)	4' 3" (1.30m)	5' 1" (1.55m)	5' 11" (1.80m)	6' 9" (2.06m)
HSMS2 Staggered Design (5" centers) Overall Manifold Length	1' 4" (0.41m)	1' 9" (0.53m)	2' 2" (0.66m)	2' 7" (0.79m)	3' 0" (0.91m)	3' 5" (1.04m)	3' 10" (1.17m)

Total No. of Cylinders	2	3	4	5	6	7	8
HSAD2 Standard (10" centers) Overall Manifold Length	2' 3" (0.69m)	N/A	3' 11" (1.19m)	N/A	5' 7" (1.70m)	N/A	7' 3" (2.12m)
HSAD2 Staggered Design (5" centers) Overall Manifold Length	2' 3" (0.69m)	N/A	3' 1" (0.94m)	N/A	3' 11" (1.19m)	N/A	4' 9" (1.45m)

### Ordering Information

Specify: Control Type (V) – Service (W) – Number of Cylinders (X) Header Configuration (Y) Mounting (Z)					
<i>Example 1:</i> HSAC2-5-6 = Model HSAC, 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)
HSAC (30-100 psig)	(2) Breathing Air	CGA 346		Blank- Standard 10" on center 13 " on center for Acetylene & LPG	Blank = Wall Mount
HSAC2HP (50-200 psig)	(2A) Zero Air	CGA 590			
	(3) Argon	CGA 580			
HSAD (50-100 psig)	(4) Carbon Dioxide	CGA 320			
	(5) Helium	CGA 580			
HBAD2 (30-100 psig)	(6) Hydrogen	CGA 350			
	(6A) Argon/Methane Mixtures	CGA 350			
HSMS2 (20-150 psig)	(7) Nitrogen	CGA 580		S- Staggered 5" on center 6.5" on center for Acetylene & LPG	F = Floor Mount
	(8) Nitrous Oxide	CGA 326			