

# HIGH PURITY STAINLESS STEEL MANIFOLDS

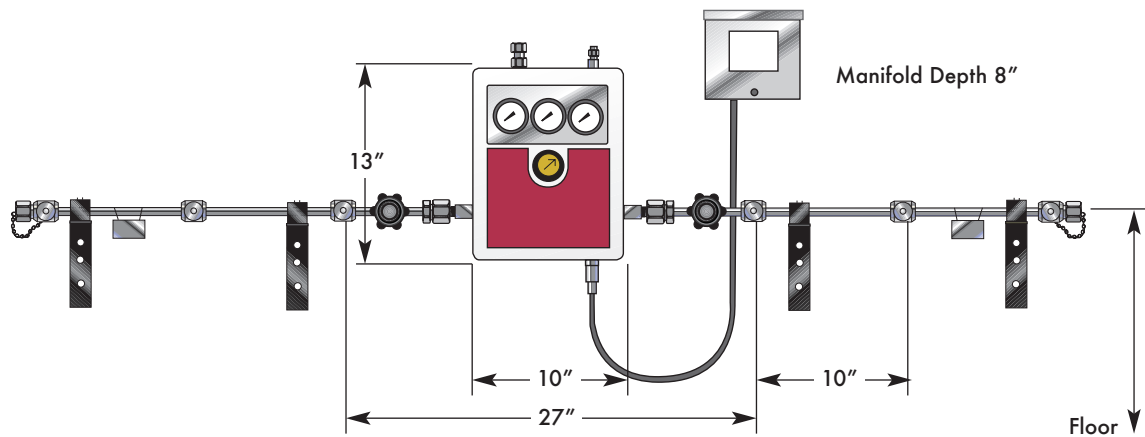
## specifications

- Stainless steel diaphragm regulators.
- Helium leak rate integrity  $2 \times 10^{-6}$  scc/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: 1/4" OD tube.
- Stainless steel orbital welded headers.
- 24" flexible stainless steel lined pigtails with check valves.

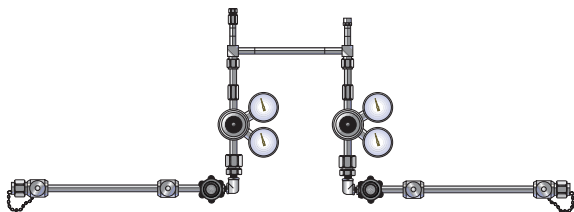
Western Innovator HSAC manifolds are designed and manufactured for high-purity gas delivery applications requiring uninterrupted gas flow and greater cylinder capacities. User friendly and easy to operate, a simple rotation of the control knob resets the unit following the system's automatic changeover.

tamper-resistant case. A self-contained alarm system clearly indicates the system status. A green light shows 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).

Factory-set functional components are protected inside a

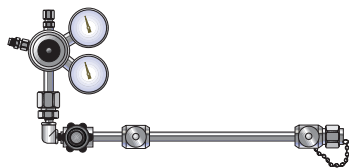


Western Innovator HSAD2 provides uninterrupted high-purity gas flow at an economical price. A simple adjustment of the manifold regulator is required following the system's automatic changeover.



HSAD2-5-4

Western Innovator's HSMS2 is designed to provide increased cylinder usage and high-purity gas to applications not requiring uninterrupted flow.



HSMS2-5-2

## HOW TO ORDER

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

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

CONTROL TYPE (V)	GAS SERVICE (W)	# OF CYL'S (X)
HSAC (30 - 100 psig)	(2) Zero Air CGA-346 (2A) Zero Air CGA-590	
HSACHP (50 - 200 psig)	(3) Argon CGA-580 (4) Carbon Dioxide CGA-320	
HSAD2 (50 - 100 psig)	(5) Helium CGA-580 (6) Hydrogen CGA-350	
HSMS2 (20 - 150 psig)	(6A) Argon/Methane CGA-350 (7) Nitrogen CGA-580 (8) Nitrous Oxide CGA-326	



**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" (.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" (.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" (.53m)	2' - 7" (.79m)	3' - 5" (1.04m)	4' - 3" (1.30m)	5' - 1" (1.55m)	5' - 11" (1.80m)	6' - 9" (2.06m)
HSMS2 Staggered (5" Centers) Overall Manifold Length	1' - 4" (.41m)	1' - 9" (.53m)	2' - 2" (.66m)	2' - 7" (.79m)	3' - 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" (.69m)	N/A	3' - 11" (1.19m)	N/A	5' - 7" (1.70m)	N/A	7' - 3" (2.21m)
HSAD2 Staggered (5" Centers) Overall Manifold Length	2' - 3" (.69m)	N/A	3' - 1" (.94m)	N/A	3' - 11" (1.19m)	N/A	4' - 9" (1.45m)



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

for six total cylinders 10" on center, wall mounted.

HEADER CONFIGURATION (Y)	MOUNTING (Z)
<b>BLANK</b> - Leave blank for STD 10 inch centers	<b>BLANK</b> = Wall mount <b>F</b> = Floor mounted
<b>S</b> - Staggered 5 inches on center	