



WESTERN FULLY AUTOMATIC CHANGEOVER MANIFOLD



DS1000

Western Innovator DS1000 Digital Manifolds provide fully automatic system control. An Integrated Circuit Board monitors cylinder bank pressure electronically, controlling changeover and eliminating the need to manually reset levers or valves. Easy-to-read digital displays show the line and individual bank pressures. A series of lights for each bank indicates whether the bank is "in service", "ready for use", or "bank depleted".

FEATURES

- Fully Automatic Changeover - No levers to reset. Continuous, uninterrupted gas flow. The only manual function is to replace depleted cylinders.
- LED Indicators provide system status for each bank. Lights will indicate "In Service", "Ready for use" or "Bank Depleted".
- Large digital display provides constant readout of bank pressure and delivery pressure.
- Displays readout in psig, Kpa or Bar.
- Micro controller monitors all functions and controls changeover.
- Built to accommodate future cylinder expansion by adding header extensions.
- Special header configurations available upon request.
- Available for the following gases: Air, Argon, Carbon Dioxide, Helium, Nitrogen, Nitrous Oxide, and Oxygen.
- Optional Audio/Visual Alarm and FloorStand available.
- Made in the USA.

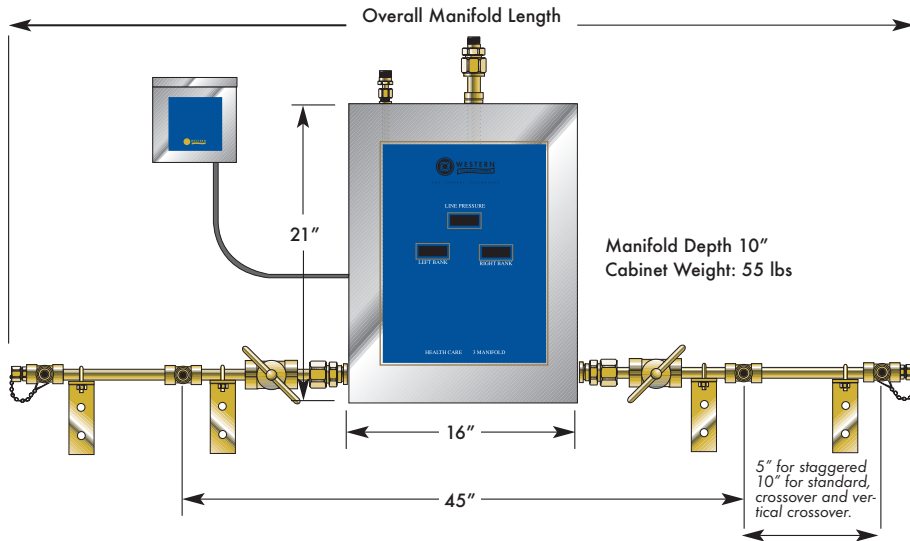
SPECIFICATIONS

- Maximum Inlet pressure 3000 psig (2000 for CO₂ & N₂O)
- Delivery Pressure:

DS1000	40-100 psig
DS1000HL	40-100 psig
DS1000HP	100-190 psig
- Maximum Flow:

DS1000	2000 SCFH
DS1000 (CO ₂ & N ₂ O)	35 SCFH
DS1000HL (CO ₂ & N ₂ O with heater)	500 SCFH
DS1000HP	2500 SCFH
- Manifold Outlet: 1/2" MNPT.
- Relief Valve Outlet: 1/2" MNPT.
- 24" flexible stainless steel pigtailed with check valves.
- 1/2" Brass, silver brazed headers.

Not for hospital applications. Does not meet NFPA-99 requirement for hospital use. See Western Innovator model FHM2.



Example: DS1000-9-4 - Oxygen (9=CGA-540) Manifold for 4 Cylinders

DESIGN LENGTHS

TOTAL NO. OF CYLINDERS	4	6	8	10	12	16	20
Standard (10" Centers) Overall Manifold Length	5' - 11" (1.80m)	7' - 7" (2.31m)	9' - 3" (2.82m)	10' - 11" (3.33m)	12' - 7" (3.84m)	15' - 11" (4.85m)	19' - 3" (5.87m)
Staggered (5" Centers) Overall Manifold Length	5' - 1" (1.55m)	5' - 11" (1.80m)	6' - 9" (2.06m)	7' - 7" (2.31m)	8' - 5" (2.57m)	10' - 1" (3.07m)	11' - 9" (3.58m)
Vertical Crossover (10" Centers) Overall Manifold Length	4' - 3" (1.30m)	N/A	5' - 11" (1.80m)	N/A	7' - 7" (2.31m)	9' - 3" (2.82m)	10' - 11" (3.33m)
Crossover (10" Centers) Overall Manifold Length	4' - 3" (1.30m)	N/A	5' - 11" (1.80m)	N/A	7' - 7" (2.31m)	9' - 3" (2.82m)	10' - 11" (3.33m)

HOW TO ORDER

Specify: Control Type (V) - Service (W) - Number of Cylinders (X) - Header Configuration (Y) - Mounting (Z)

Example: DS1000-5-4 = Model DS1000 Helium service for 4 cylinders

CONTROL TYPE (V)	GAS SERVICE (W)	# OF CYL'S (X)	HEADER CONFIGURATION (Y)	MOUNTING (Z)
DS1000 (40-100psig)	(2) Air CGA-346 (3) Argon CGA-580		BLANK - Standard 10" Centers 	Blank=Wall Mount F=Floor Stand (FloorStand option required with Crossover option)
DS1000HL (40-100psig) (For CO ₂ and N ₂ O- includes 500 SCFH heater)	(4) Carbon Dioxide CGA-320 (5) Helium CGA-580 (7) Nitrogen CGA-580		V - Vertical Crossover 10" Centers 	
DS1000HP (100-190psig)	(8) Nitrous Oxide CGA-326 (9) Oxygen CGA-540		S - Staggered 5" Centers 	
			C - Crossover 10" Centers 	
			U-Shaped - Drawing Required L-Shaped - Drawing Required	

MANIFOLD TYPE: FULLY AUTOMATIC

Adjustable Delivery Pressure Range:

DS1000 40-100 psig

DS1000HP 100-190 psig

Filtration: 20-30 micron

Maximum inlet pressure: 3000 psig

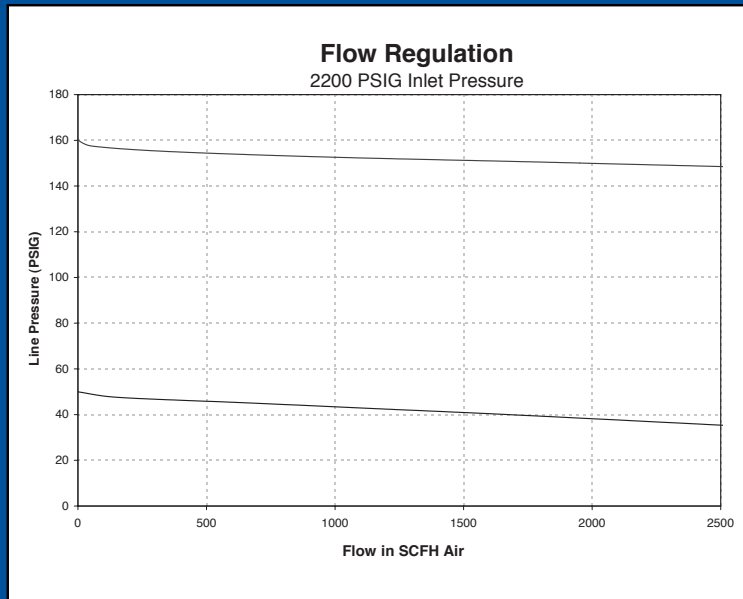
(2000 for CO₂ & N₂O systems)

Operating temperature range: 0°F - 120°F

Nitrous Oxide & Carbon Dioxide: 20°F - 120°F

Shipping Weight: 55 lbs.

Inlet Pressure (PSIG)	Line Pressure Drop (PSIG)	Flow in SCFH Air
400	5	930
	10	1910
	15	2330
1000	5	700
	10	1690
	15	2630
2200	5	670
	10	1660
	15	2560



GAS CONTROL TECHNOLOGY

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