

# Medical Gas Manifold

## Automatic High Pressure

### FEATURES & BENEFITS

- Digital LCD Pressure Display
- NEMA 4x Enclosure
- Automatic Leak Detection
- Automatic Transducer Diagnostic Testing

### SPECIFICATIONS

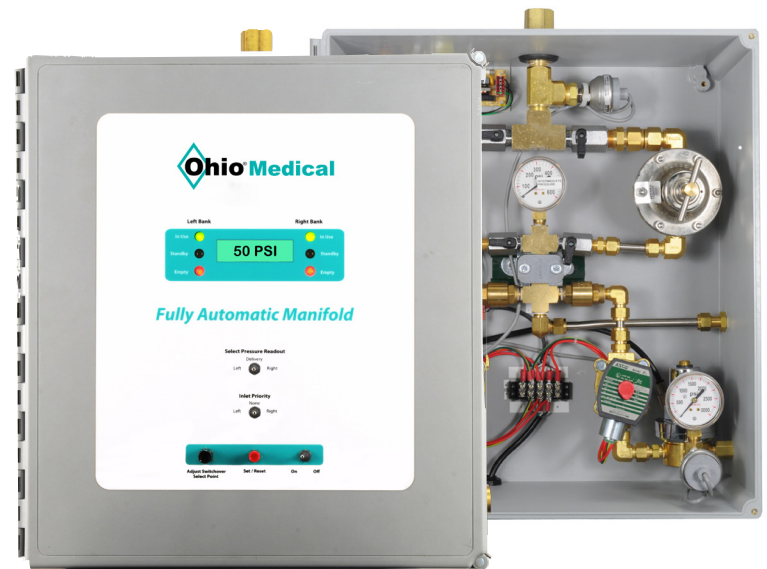
The medical gas manifold shall be Ohio Medical Healthcair® series. The manifold shall comply with the latest edition of NFPA® 99.

The manifold shall provide an uninterrupted supply of gas to the pipeline at a constant pressure. The manifold shall permit automatic switchover for the “in use” (primary) bank of cylinders to the “reserve” (secondary) bank of cylinders.

The manifold shall have a NEMA 4x enclosure allowing the manifold to be mounted outdoors in a semi-protected environment (0° - 140°F). The manifold shall be equipped with an internal power supply module, header bars/cylinder connections, master shut off valves and optional external heaters for Nitrous Oxide (N<sub>2</sub>O) and Carbon Dioxide (CO<sub>2</sub>) service.

The pressure control cabinet shall contain dual pressure regulators and switches that assure an uninterrupted, regulated flow of gas to the pipeline. The cabinet shall have a digital pressure display and analog three pressure gauges, one for each supply side and one for the pipeline delivery pressure. A group of indicator lights shall be used to indicate the status of the left and right cylinder banks. “In Service” is indicated by the green light, and the “Reserve” cylinder bank is indicated by the yellow “Ready to Use” light. A red “Replace Cylinder” light indicates a depleted cylinder bank. The manifold shall be equipped with a left or right bank inlet priority switch. An external switch over setting module shall be provided.

The control cabinet shall be equipped with a leak detection alert, in the event the reserve cylinder bank decreases by 25% from the initial standby pressure. When this occurs, the standby status light and the empty status light will blink indicating that a leak has been detected. The unit shall include a self diagnostic testing feature to check the internal inlet and delivery pressure transducer sensors. During this test if a fault is found the digital display will read “ERROR” Right, Left, or Delivery depending on where the fault was generated.



Dry contacts are provided in the internal alarm terminal strip for connection to a remote alarm to signal when the reserve bank (secondary) is in use. No manual resetting is required when the bank has been replaced with new cylinders and re-pressurized, the red light goes off and the yellow “Ready to Use” light comes on and the replaced bank is now the reserve bank.

Product Includes: UL / CSA / CE / ISO 5175, BS 6158 / EN 730 (BAM / DIN) / AS 4603 - Components  
 Designed to: National Fire Protection Association (NFPA® 99 and 51)  
 Compressed Gas Association (V-1, E-1, E-3, E-4, G-1)  
 American National Standards Institute (A-13.1, B.57-1)

Cabinet Dimensions: 16”W x 18”H x 10.5”D  
 Input Voltage: 90 - 264 VAC

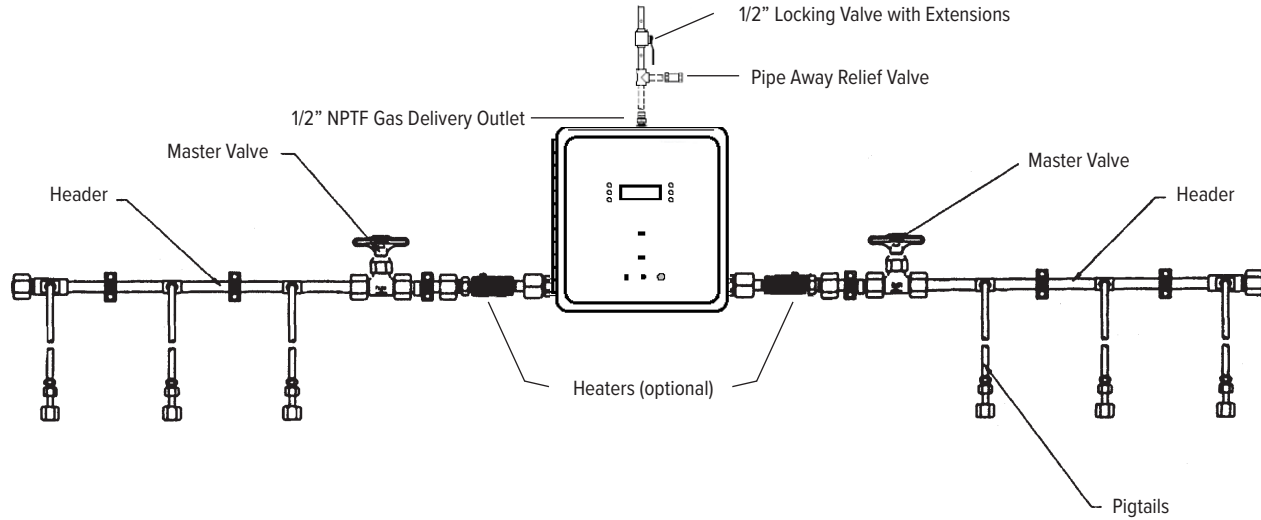
The header bars shall be modular in design, allowing for future expansion. Each inlet port shall be equipped with an individual check valve and each brass header bar shall include a master shutoff valve to shut off the gas in emergency situations. Cylinder connections shall have a stainless steel mesh covering\* and be flexible to facilitate cylinder alignment with the header bar and include gas specific CGA fittings on each end.

Piping regulators and control switchover components shall be cleaned for oxygen service.

\*Oxygen manifolds shall be equipped with copper pigtails.

Equipment is manufactured in the USA and produced in an ISO 9001 registered facility.

## PIPE AWAY RELIEF VALVE ILLUSTRATION



## MANIFOLD ORDERING

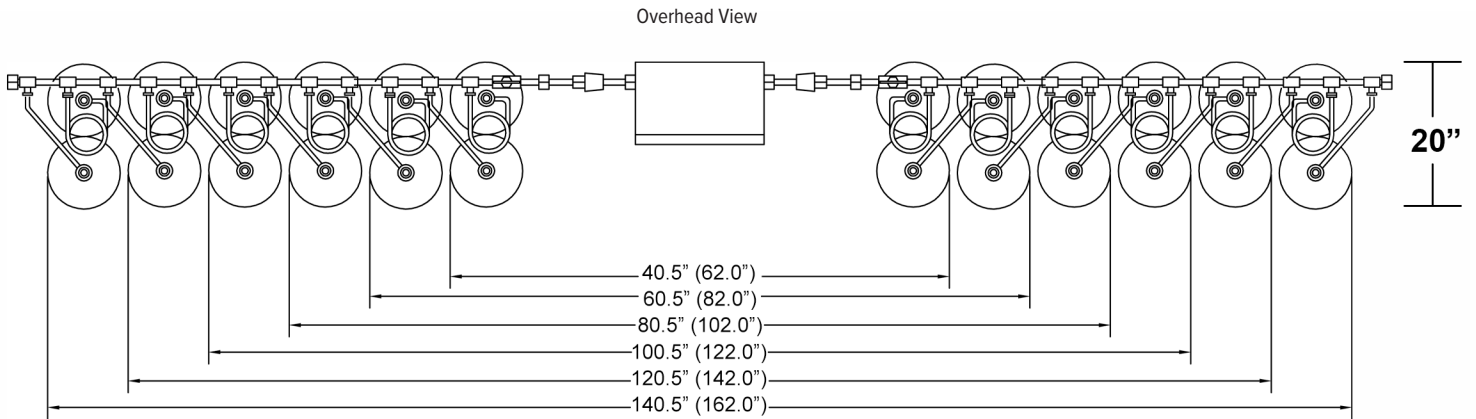
Multi-Voltage Digital Manifold (Cabinet Only)	
<b>263433</b>	O <sub>2</sub> , 50 lbs
<b>263435</b>	N <sub>2</sub> O, 50 lbs
<b>263437</b>	N <sub>2</sub> , 50 lbs
<b>263439</b>	Air, 50 lbs
<b>263441</b>	CO <sub>2</sub> , 50 lbs

Optional Heater Kit for N <sub>2</sub> O & CO <sub>2</sub>	
<b>263431</b>	115v Heater, USA, 2 Required
<b>263409</b>	220v Heater, Other, 2 Required

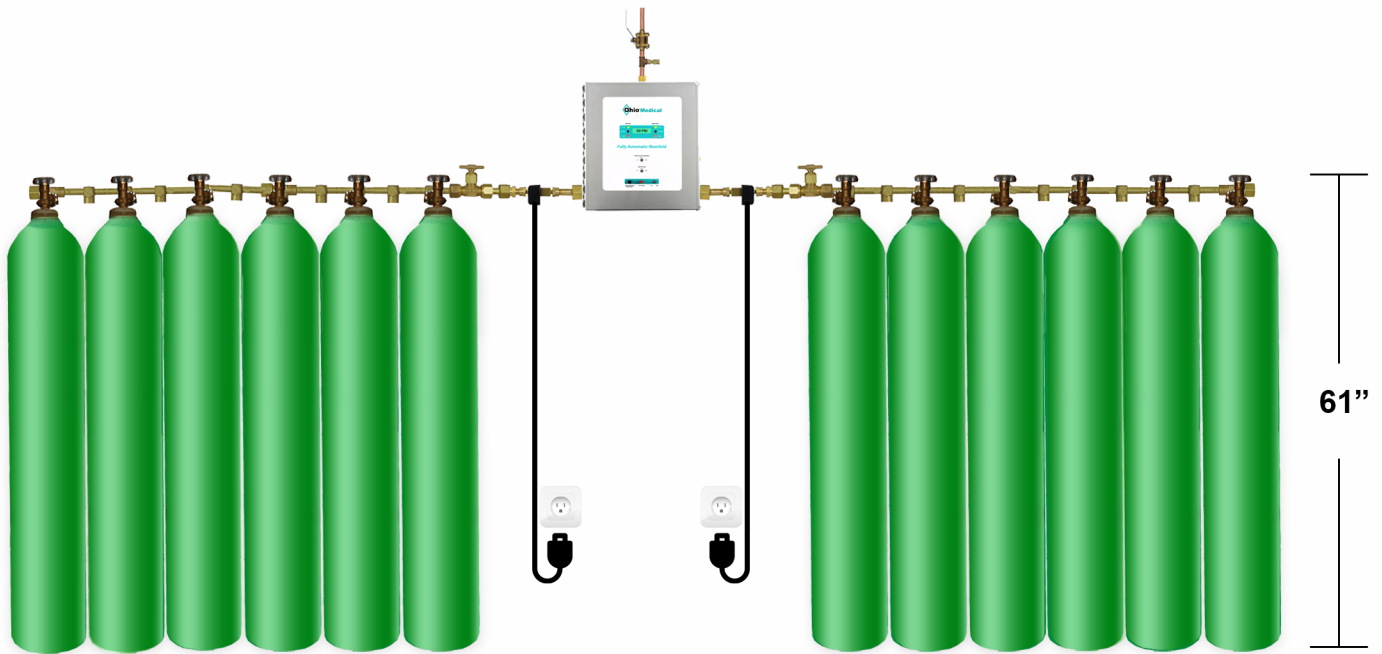
Header Bar with Gas Specific Pigtails						
Arrangement	O <sub>2</sub>	N <sub>2</sub> O	N <sub>2</sub>	Air	CO <sub>2</sub>	Estimated Weight
1x1	261664-01	261665-01	261666-01	261667-01	261668-01	10 lbs.
2x2	261664-02	261665-02	261666-02	261667-02	261668-02	20 lbs.
3x3	261664-03	261665-03	261666-03	261667-03	261668-03	30 lbs.
4x4	261664-04	261665-04	261666-04	261667-04	261668-04	40 lbs.
5x5	261664-05	261665-05	261666-05	261667-05	261668-05	54 lbs.
6x6	261664-06	261665-06	261666-06	261667-06	261668-06	60 lbs.
7x7	261664-07	261665-07	261666-07	261667-07	261668-07	70 lbs.
8x8	261664-08	261665-08	261666-08	261667-08	261668-08	80 lbs.
9x9	261664-09	261665-09	261666-09	261667-09	261668-09	90 lbs.
10x10	261664-10	261665-10	261666-10	261667-20	261668-10	100 lbs.

Manifold Installation Kits	
<b>263463</b>	Installation Kit for O <sub>2</sub> , N <sub>2</sub> O, Air & CO <sub>2</sub>
<b>Installation Kit Includes</b>	
<b>232600</b>	75 psi Relief Valve
<b>232602</b>	1/2" Pipe Adaptor
<b>261600-05</b>	1/2" Locking Source Valve
<b>263464</b>	Installation Kit for N <sub>2</sub>
<b>Installation Kit Includes</b>	
<b>232604</b>	250 psi Relief Valve
<b>232602</b>	1/2" Pipe Adaptor
<b>261600-05</b>	1/2" Locking Source Valve

## DIMENSIONAL DRAWING & ATTACHMENT ILLUSTRATION



Dimensions in parentheses are with optional Heaters.



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255074 (Rev. 14) 08/2020