

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 (N₂O) and Carbon Dioxide (CO₂) 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: Input Voltage:	16"W x 18"H x 10.5"D 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)		Header Bar with Gas Specific Pigtails							
263433	0 ₂ , 50 lbs	Arrangement	0,2	N ₂ O	N ₂	Air	CO2	Estimated Weight	
263435	N ₂ O, 50 lbs	1x1	261664-01	261665-01	261666-01	261667-01	261668-01	10 lbs.	
263437	N _a , 50 lbs	2x2	261664-02	261665-02	261666-02	261667-02	261668-02	20 lbs.	
262420		3x3	261664-03	261665-03	261666-03	261667-03	261668-03	30 lbs.	
263439	Air, 50 dds	4x4	261664-04	261665-04	261666-04	261667-04	261668-04	40 lbs.	
263441	CO ₂ , 50 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.	
Optional Heater Kit for N ₂ O & CO ₂		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.	
263431	115v Heater, USA, 2 Required	9x9	261664-09	261665-09	261666-09	261667-09	261668-09	90 lbs.	
263409	220v Heater, Other, 2 Required	10x10	261664-10	261665-10	261666-10	261667-20	261668-10	100 lbs.	

Manifold Installation Kits							
263463	Installation Kit for 0_2 , N_20 , Air & CO_2	263464	Installation Kit for $\rm N_2$				
Installation Kit Includes		Installation Kit Includes					
232600	75 psi Relief Valve	232604	250 psi Relief Valve				
232602	1/2"Pipe Adaptor	232602	1/2"Pipe Adaptor				
261600-05	1/2" Locking Source Valve	261600-05	1/2" Locking Source Valve				

DIMENSIONAL DRAWING & ATTACHMENT ILLUSTRATION



Dimensions in parentheses are with optional Heaters.



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