



ALERT-2 MEDICAL GAS MANIFOLD Digital Dual Line Regulator - CSA

SPECIFICATIONS:

The Digital Medical Gas Manifold shall be an Amico **Alert-2** Heavy Duty series and shall provide expansion capabilities through the use of the optional Ethernet Interface. This manifold shall also include a five-year warranty which warrants a defect-free product.

The Manifold shall be a digital, fully automatic type and shall switch from "Bank in Use" to "Reserve" bank without fluctuation in delivery line pressure and without the need for external power. After the switch-over, the "Reserve" bank shall then become the "Bank in Use" and the "Bank in Use" shall become the "Reserve" bank. The manifold will be powered by a microprocessor located behind the front door panel. The unit will be compact measuring 16-3/4" high x 17" wide x 9" deep.

The control panel incorporates three large, red, illuminated LED displays, for the Left Bank, the Right Bank and for Delivery Pressure. The control panel also uses six LED's, two Green for "Bank in Use", two Amber for "Bank Ready" and two Red for "Bank Empty".

NOTE: The manifold shall be equipped with a 3/4" outlet shutoff valve. The valve comes complete with a 3/4" type "K" 6-3/4" [172 mm] long pipe extension and 1/8" port for an optional pressure switch.

The header bars shall be equipped with emergency high pressure shutoff valves outside the cabinet to allow for emergency isolation of the header bars. The header bar shall incorporate integral check valves for each station. The manifold shall be equipped with limit switches and pressure transducers for indication and for operation of the fail-safe relay which transmits a remote Normally Closed signal to the master medical gas alarm.

NOTE: The header bar comes with universal mounting brackets to be mounted direct or with a 12" wall spacing mounting when the optional wall mounting bracket is used. The header bar brackets are only supplied with more than 10 cylinders, for a staggered header bar, and more than 4 cylinders, for a straight header bar.

All manifold regulators, piping and control switching equipment shall be cleaned for oxygen service and installed inside the cabinet to minimize tampering with the regulators or switch settings.

NOTE: Manifold cabinets are for general purposes use.

The Manifold shall include three pressure relief valves, one high pressure at 200 psi [1,379 kPa] for all gases, except Nitrogen, and two low pressure at 75 psi [517 kPa] for Oxygen, Air, and Carbon Dioxide and 65 psi [448 kPa] for Nitrous Oxide. Nitrogen has one high pressure relief valve at 350 psi [2,413 kPa] and two low pressure at 200 psi [1,379 kPa].

The Manifold is **UL** Listed to U.S. and Canadian safety standards.

FLOW CAPACITY:

Oxygen, Medical Air, Nitrous Oxide, Carbon Dioxide:

4,500 SCFH (2,123 L/min)

Nitrogen:

6,000 SCFH (2,831 L/min)



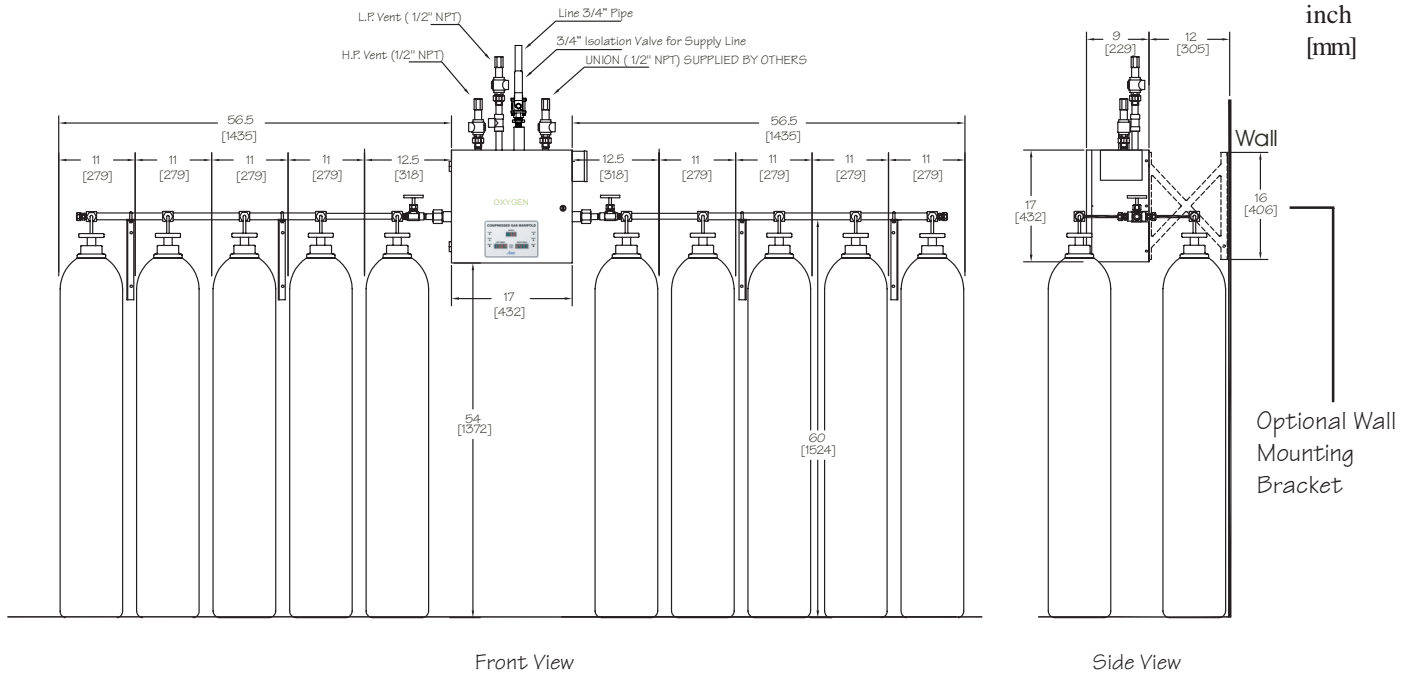
FEATURES:

- Fully automatic self-contained shuttle-valve, with no electrical power required for switching
- Input power 110 VAC to 240 VAC, 50 to 60 HZ
- Microprocessor based Control panel incorporates six LED's and illuminated LED display readable even in poor lighting conditions
- Unit of measure switching (psi/kPa/BAR)
- Two limit switches for positive indication of bank in use
- CGA gas specific header bar with integral check valves and cylinder pigtail assemblies (to be ordered separately)
- Dual line pressure regulators
- 3/4" isolation valve for supply line
- Manifold complies with CSA Z305.1
- Interface to Amico AIMS system

PROJECT:



DIMENSIONS



MODEL NUMBERS

Manifold Cabinet:

- = Standard

H = Heaters (CO2 or N2O only)

"C" = Dual Line - CSA

M2HD-C-HH-E-XXX

"HH" = High Pressure

"LH" = Liquid * HP

"LL" = Liquid * Liquid

E = English (ISO Colors)

F = French (ISO Colors)

The XXX defines the Gas:

Oxygen = OXY

Nitrous Oxide = N2O

Nitrogen = NIT

Medical Air = AIR

Carbon Dioxide = CO2

Header-bar Assembly:

"TS" = Straight c/w Stainless Pigtails

"TC" = Straight c/w Copper Pigtails

"XS" = Staggard c/w Stainless Pigtails

"XC" = Staggard c/w Copper Pigtails

Number of Cylinders (2*2)

M2-HBXC-04E-XXX

E = English (ISO Colors)

Wall Bracket for Header-bar Assembly: M-X-HB-WBRKT

X-Support Bracket for Manifold: M2-X-MAN-SUP

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