

Dome Loaded Analog Manifold NFPA



Features

- · Fully automatic with dual line regulators
- Input power 110 VAC to 240 VAC, 50 to 60 HZ
- Control panel incorporates six LED's which, when illuminated, is noticeable even in poor lighting conditions
- 3/4" (19 mm) isolation valve for supply line
- · Includes wall mounting bracket
- Removable cabinet enclosure for easy installation and service
- · Manifold complies with NFPA 99
- Flow capacity:
 - Oxygen, Medical Air, Nitrous Oxide and Carbon Dioxide – 4,500 SCFH [2,123 L/min]
 - Nitrogen and Instrument Air 6,000 SCFH [2,831 L/min]

General Specifications:

The manifold shall be a fully automatic type and shall switch from "Bank In Use" to "Reserve Bank" without fluctuation in the final line pressure.

After the switchover, the "Reserve Bank" shall then become the "Bank in Use" and the "Bank In Use" shall become the "Reserve Bank." The control panel includes a line gauge, two bank gauges and incorporates six LED's: two green for "Bank In Use," two yellow for "Bank Ready" and two red for "Bank Empty" on the front of the cabinet. The manifold consists of two bank regulators (dome bias) used to reduce the cylinder pressure to the two line regulators which in turn controls the final line pressure. The manifold has an intermediate and line relief valve that is internally connected to a common vent port, terminating into a 1/2" (13 mm) FNPT pipe.

The unit shall be compact, measuring 19" high x 17" wide x 9" deep (483 mm x $432 \text{ mm} \times 229 \text{ mm}$).

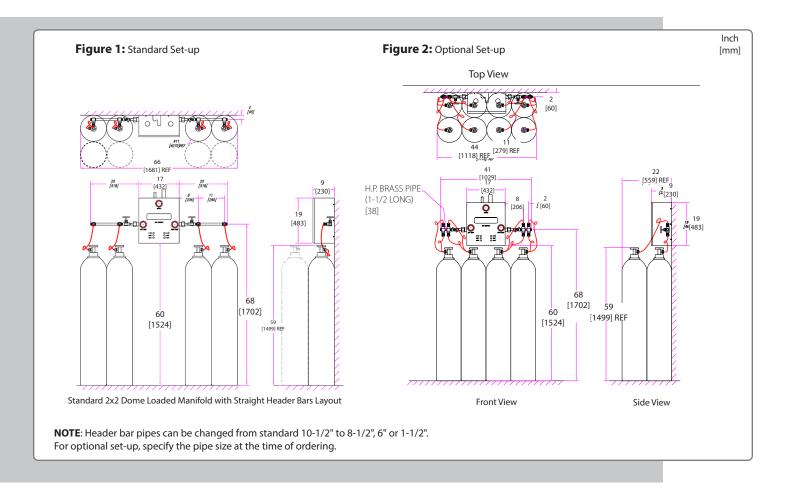
PLEASE NOTE:

- The manifold shall be equipped with a 3/4" (19 mm) outlet shutoff valve.
 The valve comes complete with a 3/4" (19 mm) type "K" 6-3/4" (172 mm) long pipe extensions and 1/8" (3 mm) port for an optional pressure switch.
- The header bars shall be equipped with 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 is equipped with pressure transducers, which sends information to the main circuit board for operation of the fail-safe relay which transmits a remote signal to the master alarm or buzzer.
- The header bar mounting brackets are only supplied with more than 10 cylinders, for a staggered header bar, and more than 4 cylinders for a straight header bar.
- The manifold cabinet is for general purpose use with an optional NEMA-3R enclosure for the power supply.
- NEMA-4 enclosure is an option for outdoor use.
- Optional heaters are available for Nitrous Oxide and Carbon Dioxide manifolds.
- The flow capacity of a nitrous oxide and carbon dioxide manifold depends upon the environmental conditions at the installation site and the number of cylinders in service. Installing them in a location that exposes it to an ambient temperature below 32°F (0°C) is not recommended.
- The manifold shall be installed in accordance with the requirements stated by NFPA 99, CGA, and all applicable local codes. Amico recommends the control cabinet be located at an installation site protected from rain, snow and direct sunlight.
- CGA gas specific header bar with integral check valves and cylinder pigtail assemblies (to be ordered separately).



Technical Specifications





Standard Setup Overall Length

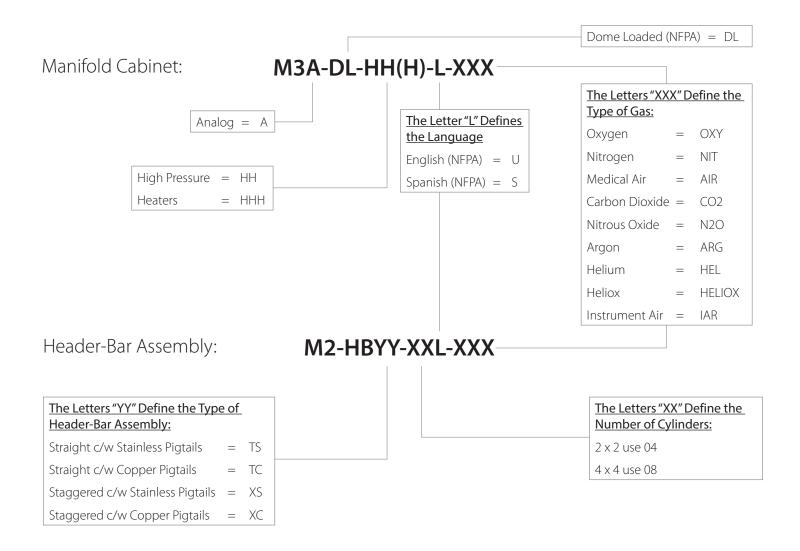
Approximate length of a standard header bar with the manifold.

No. of Cylinders	StaggeredOverall Length Inch [mm]	Straight Overall Length Inch [mm]
2	38 [965]	38 [965]
4	40 [1016]	62 [1575]
6	40 [1016]	62 [1575]
8	62 [1575]	104 [2642]
10	62 [1575]	104 [2642]
12	80 [2032]	126 [3200]
14	80 [2032]	126 [3200]
16	104 [2642]	148 [3759]
18	104 [2642]	148 [3759]
20	126 [3200]	170 [4318]

NOTE: For 5x5 or 7x7 cylinder, the length of the header bar is the same as a 4x4 cylinder or 6x6 cylinder. Instead of a plug at the end, a CGA gas specific adaptor is provided.

Model Numbers





Wall Bracket for Header-Bar Assembly: M-X-HB-WLBRKIT

Note: For oxygen service use only copper pigtails

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ACP-SP-DL-MANI-NFPA-ANALOG 10.31.2019