

# GM2-A SERIES

Automatic Manifold Systems

Industrial Manifold Systems

GM2-A series automatic manifold system is designed to provide an uninterrupted gas supply without any manual adjustments. This system automatically changes over when the primary cylinder bank is depleted. Even in case of power failure, the system continues to supply gas without interruption.



## Features

### Automatic Changeover Cabinet

- Fully enclosed, tamper- resistant metal cabinet
- Light indicators provide system status
- Systems for fuel gas come with an anti-explosive device
- External filter facilitates replacement of filtration elements
- 5500EY, 5500EF come with anti-explosive devices

### Header

- Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expansion needs
- System is mounted with gas filters
- Pressure switch port available
- Headers have been tested to withstand high cylinder pressure
- Wall or floor mount available

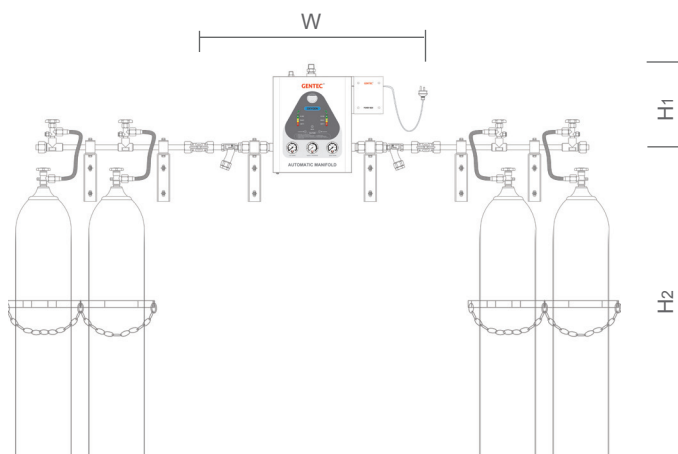
## Standard Construction

- 24" flexible high pressure stainless steel braided pigtails\* with check valve, Rigid copper pigtails are standard when gas service is oxygen. Pigtails for acetylene models are equipped with dry flashback arrestor.
- For Acetylene or Fuel gas model, regulator outlet is equipped with a dry flashback arrestor (FA30PF) for additional safety. As an option, hydraulic flashback arrestors are available for an additional charge.
- Carbon Dioxide manifold systems are provided with H900G electric heating regulator. Siphon cylinder should not be used in the manifold system.

## Specifications

Series	Gas Service	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m³/h)	Outlet Connection	Pigtail Specifications
GM2-AL-O2	Oxygen	3000 (207)	10~200 (0.7~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA540
GM2-AL-Y	Acetylene	400 (28)	2~15 (0.14~1)	700 (20)	3/4" NPT (M)	Pigtail, CGA510
GM2-AL-F	Propane	400 (28)	5~125 (0.35~8.6)	1050 (30)	3/4" NPT (M)	Pigtail, CGA510
GM2-AM-CO2	Carbon Dioxide	3000 (207)	5~125 (0.35~8.6)	1050 (30)	3/4" NPT (M)	Pigtail, CGA320
GM2-AM-IN	Argon, Helium, Nitrogen	3000 (207)	10~200 (0.7~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA580

## Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Argon, Nitrogen, Helium	41.3 (1050)	15.8 (400)	55.1 (1400)
Acetylene, Propane	59.8 (1520)	21.7 (550)	55.1 (1400)
Carbon Dioxide	55.5 (1410)	15.8 (400)	55.1 (1400)

## Manifold System Layouts

Standard Layout	"L" shape Layout	"U" shape Layout	Crossover Layout	Staggered Layout

## Ordering Information

GM2-A	L	- O2	- U	- ( 5 x 5	- S	2 )
Series	Delivery Pressure	Gas Service	Standard Code	Number of Cylinders (left-hand / right-hand)	Manifold System Layout	Cylinder Valve Spacing
automatic manifold system (Pressure Gauge)	USA (ISO) L: 55 psi (0.5 MPa) M: 100 psi (0.8 MPa) H: 185 psi (1 MPa)	X: Oxygen Y: Acetylene F: Propane C: Carbon Dioxide IN: Ar, He, N <sub>2</sub>	U: USA Standards E: ISO Standards UE: Canada Standards	1 x 2: One cylinder on the left, Two cylinders on the Right 5 x 5: Five cylinders on the left, Five cylinders on the Right ...	S: Standard layout L: "L" Shape layout U: "U" shape layout D: Crossover layout X: Staggered layout	1: 5" (127 mm) 2: 10" (254 mm) 3: 13" (330 mm) 4: 18" (457 mm)
Note: Direction of piping (Right or Left) is indicated by facing the manifold.						

Example: GM2-AL-O2-U-(5x5-S2) indicates a 5\*5 oxygen cylinder automatic manifold system. Distance between two cylinders is 10" on standard horizontal layout.  
 NFPA99 color code (USA)  
 GM2-AL-O2-U-(0x0) indicates an oxygen changeover system with filters and master shutoff valves. NFPA99 color code (USA)  
 GM2-AL-O2-U indicates an oxygen changeover system only. NFPA99 color code (USA)