



MANIFOLD SYSTEMS

Manifold Systems • Manifold Changeover Cabinet • Manifold Components

Solutions for Life



COMPANY INTRODUCTION

GENTEC[®] Company Overview





Company Overview

Genstar Technologies is a global leader in Gas Flow Control Systems for the industrial, specialty gas and medical sectors. We pride ourselves in our ability to provide our customers with high quality, value-added products and services that go beyond the industry standards. As a result, we have a global network of thousands of satisfied customers in over 60 countries.

Our Team

Our highly educated team of engineers, salespeople, technicians, managers, and customer service personnel are dedicated to providing you with products with the highest quality, reliability and performance. We hold the highest standards to our manufacturing processes; our total process management maximizes our production efficiency while ensuring product quality.

We work closely with all of our customers to design products specific to your needs. This includes developing new products, redesigning existing products, and customizing configuration / packaging. It is our priority to foster a strong relationship with each and every customer.

Quality Assurance

All of our products are manufactured under stringent quality control. We are ISO 9001:2001, ISO13485, and API certified. Our products meet UL, CE, SEMI, and various international standards and certifications.

Manufacturing Capabilities

The manufacturing facility is equipped with CNC machining centers, electoral polishing equipment, and precision automatic orbital welding systems, among other features, to ensure the production of the highest quality products.

Clean Room Facilities

Our class 10/100/1000 clean rooms are designed for Ultra High Purity (UHP) products. UHP products undergo precision machining, surface finishing, electro-polishing and passivation. All UHP products are cleaned by 18MΩ DI water in a cascade ultrasonic tank.

To ensure the highest UHP product quality, they are then vacuum-dried and double-bagged.

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AUTOMATIC MANIFOLD SYSTEMS

GENTEC[®] Product Advantage

Exhaust Port

Easy for installation

2 Outlet

• 3/4" NPT for easy connection

3 Light And Control Buttons

- Status indicator
- Integral alarm buzzer
- Manual switch button for changeover

Pressure Gauge

- Multiple gauge unit option
- · Work normally even in the event of power failure

5 Three-way Ball Valve

Easy maintenance

Automatic Differential Pressure Type Switch Valve

- Patented design
- Double Solenoid valve control to initiate manifold switchover for uninterrupted gas supply

Control Circuit Board

 RS 485 communication and Dry Contact Output, can be integrated to a central monitoring system

8 Pressure Switches Pressure Transmitter

- 0~10V or 4~20 mA output
- Monitoring the outlet pressure and alarm for inlet pressure

9 Secondary Regulator

- High flow line regulator
- Per NFPA 99 requirements to allow for isolation
- and service of one while other is in use
- Available for on site repair
- Easy for maintenance

Ventilation Window

- Ventilation window on both sides of cabinet
- Well-ventilated to ensure safety

1 Primary Regulator

- Dome bias regulator technology
- Provide stable flow and durable
- Easy for maintenance

Relief Valve

 Relief pressures downstream of line regulators in order to prevent over pressurization.

Belectrical Box

 NEMA 4 (IP66) electrical enclosure: Weatherproof protection against environmental elements.



AUTOMATIC MANIFOLD SYSTEMS

Solutions for Life

GENTEC[®] Product Advantage



MANIFOLD PURCHASE SPECIFICATIONS FORM

Solutions for Life

1	Application of the	e manifold syst	em: □Industrial □Spe	cialty Gas □Oth	ners	
2	Gas service: □O	xygen □Acety	lene □Propane □Air	Carbon Dioxide	(CO ₂)	
	□Inert Gases (Ar	rgon, Nitrogen,	Helium) Others		<u> </u>	
3	Type of manifold	system require	ed: □Manual □Semi-A	utomatic DAutom	natic	
4	Outlet pressure r	equired: (psi)		6		Ķ
5	Outlet flow rate re	equired: (SCFI	H)		CEL CEL	
6	Type of mounting	g: ⊡Wall Mount	t □Floor Mount			
7	Cylinder Spacing	(Center to Ce	nter): □5" □10" □13	" □18"		
8	Number of cylind	ers required: L	.eft Bank	Right Bar	nk	
9	Manifold system	layout:	- <u>,</u> , <u>,</u> ,			
1				<u>\$\$_</u>		- ,
ł	Series No	5200 Series	5300/5400/5500/GM Series	5600/5700 Series		
ļ	1 Standard Layout	<u>⊳ २ २ २</u>	<u> ১ ≅ ১ ১</u>	- ১১১ ⊠		
ß	2 "L" shape Layout	[∞] 555	<u>১১১</u>	Po Po	– <u>—</u> Manifolds	

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3 "U" shape Layout	CHAN C			👌 Cylinder
4 Crossover Layout				CENT CENT
5 Staggered Layout	∠ ≊ ব্যুচ_ ⊘	- প্রিহ 🖉 ব্যুহ	- প্রি - ৯	ALC ALC
			<u> </u>	

10 Accessories:

Pressure Switch	Model No.	Qty
Alarm System	Model No.	Qty
Gas Terminal (Pipeline)	Model No.	Qty
Gas Heater *	Model No.	Qty
Others	Model No	Qty

*: Optional 500 SCFH heater is available for CO2 & N2O gas service with withdrawal rates above 35 SCFH / cylinder.

Note: Please fill out the above form so GENTEC can recommend the most suitable manifold system for your application. Please do not hesitate to contact us for more information

5100 series manual dual cylinders manifold systems is a simple gas delivery system which provides a maximum of 2 cylinders in service at one time. This non-extendable system is suitable for maintenance and gas applications where only one cylinder is in service at any given time and a manual changeover is required.



Features

- · Silver brazing on piping joints for maximum leak prevention
- Individual Header Valves
- · Headers have been tested to withstand high cylinder pressure
- Wall mount installation only

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.
- Gentec's high flow regulator series 155M-A.
- Carbon Dioxide manifold systems are provided with 155CG electric heating regulator. Siphon cylinder should not be used in the manifold system.
- *: Refer to table on page 34 for pigtail information

Ordering Information

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
Oxygen	5100X	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA540
Acetylene	5100Y	435 (30)	2~15 (0.14~1)	700 (20)	3/4" NPT (M)	Pigtail, CGA510
Propane	5100F	435 (30)	15~125 (1~8.6)	1050 (30)	3/4" NPT (M)	Pigtail, CGA510
Carbon Dioxide	5100C	3000 (207)	50~125 (3.5~8.6)	2100 (60)	3/4" NPT (M)	Pigtail, CGA320
Argon, Nitrogen, Helium	5100IN	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA580
Hydrogen	5100H	3000 (207)	50~200 (3.5~14)	10500 (300)	3/4" NPT (M)	Pigtail, CGA350

Please specify the "model number" when ordering.

For example: 5100X indicates a dual "oxygen" manifold system.

Manual Single-Bank Manifold Systems

5200 series manual single-bank manifold system is designed for a single source of gas supply from one cylinder bank. Although this system can be used as a main delivery system, it is typically used in industrial and medical applications as a high pressure emergency back-up system for liquid vessel or bulk systems.

Features

- · Open-style manifold
- System can be designed for right or left bank
- · Silver brazing on piping joints for maximum leak prevention
- · System is designed to accomodate future expansion needs
- · System is mounted with gas filters
- Pressure switch port is 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.
- Gentec's high flow regulator series 155M-A.
- · Carbon Dioxide manifold systems are provided with 155CG electric heating regulator.
- Siphon cylinder should not be used in the manifold system.
- *: Refer to table on page 34 for pigtail information.

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
Oxygen	5200X	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA540
Acetylene	5200Y	435 (30)	2~15 (0.14~1)	700 (20)	3/4" NPT (M)	Pigtail, CGA510
Propane	5200F	435 (30)	15~125 (1~8.6)	1050 (30)	3/4" NPT (M)	Pigtail, CGA510
Carbon Dioxide	5200C	3000 (207)	50~125 (3.5~8.6)	2100 (60)	3/4" NPT (M)	Pigtail, CGA320
Argon, Nitrogen, Helium	5200IN	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA580
Air	5200Q	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA346
Hydrogen	5200H	3000 (207)	50~200 (3.5~14)	10500 (300)	3/4" NPT (M)	Pigtail, CGA350

Manual Single-Bank Manifold Systems

Installation Dimensions





Right-hand Single-Bank manifold system

Left-hand Single-Bank manifold system

Gas Service	W1 in.(mm)	H1 in.(mm)	W2 in.(mm)	H2 in.(mm)
Oxygen, Air, Argon, Nitrogen, Helium	21.0 (534)	55.2 (1400)	12.3 (313)	14.6 (372)
Acetylene, Propane	27.8 (708)	51.2 (1300)	12.3 (313)	21.5 (546)
Carbon Dioxide	27.5 (698)	55.2 (1400)	18.8 (477)	14.6 (372)

Manifold System Layouts

Standard Layout	"L" shape Layout	Crossover Layout	Staggered Layout
<u>►</u>	[™]		

Ordering Information

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Series	Manifold System Layout	Cylinder Valve Spacing	Gas Service	Number of Cylinders	Direction of Manifold Piping	Type of Mounting
52	1: Standard layout	1: 5" (127 mm)	X: Oxygen	1: One cylinder	L: left	1: Wall mount
	2: "L" Shape layout	2: 10" (254 mm)	Y: Acetylene	2: Two cylinders	R: right	2: Floor mount
U.	4: Crossover layout	3: 13" (330 mm)	F: Propane	3: Three cylinders		
	5: Staggered layout	4: 18" (457 mm)	C: Carbon Dioxide			6
\mathcal{O}			IN: Ar, He, N ₂		Note: Direction of	(
		Gr. Gr	Q: Air		indicated by facing the	
GY	6		H: Hydrogen		manifold.	

Example: **5212X-3R-1** indicates a 3 cylinder right-hand Single-bank oxygen manifold system. Distance between each cylinder is 10" on standard horizontal layout.

Manual Dual-Bank Manifold Systems

5300 series manual dual-bank manifold system consists of a main gas delivery bank and a reserve bank of cylinders. When the primary cylinder bank is depleted, manually "turn off" the valve on the primary bank and open the valve on the reserve bank to reactivate gas flow. The changeover of this system needs to be operated manually.



Features

- Open-style manifold
- Silver brazing on piping joints for maximum leak prevention
- · System is designed to accomodate future expansion needs
- System is mounted with gas filters
- Pressure switch port is 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.
- Gentec's high flow regulator series 155M-A.
- Carbon Dioxide manifold systems are provided with 155CG electric heating regulator. Siphon cylinder should not be used in the manifold system.
- : Refer to table on page 34 for pigtail information

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
Oxygen	5300X	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA540
Acetylene	5300Y	435 (30)	2~15 (0.14~1)	700 (20)	3/4" NPT (M)	Pigtail, CGA510
Propane	5300F	435 (30)	15~125 (1~8.6)	1050 (30)	3/4" NPT (M)	Pigtail, CGA510
Carbon Dioxide	5300C	3000 (207)	50~125 (3.5~8.6)	2100 (60)	3/4" NPT (M)	Pigtail, CGA320
Argon, Nitrogen, Helium	5300IN	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA580
Air	5300Q	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA346
Hydrogen	5300H	3000 (207)	50~200 (3.5~14)	10500 (300)	3/4" NPT (M)	Pigtail, CGA350

Manual Dual-Bank Manifold Systems

Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Argon, Nitrogen, Helium	25.3 (642)	19.2 (488)	55.1 (1400)
Acetylene, Propane, Hydrogen	25.3 (642)	26.1 (662)	55.1 (1400)
Carbon Dioxide	25.3 (642)	25.7 (652)	55.1 (1400)

Manifold System Layouts

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

53	(1)	2	X	- 5 x 5	<u> </u>
Series	Manifold System Layout	Cylinder Valve Spacing	Gas Service	Number of Cylinders (left-hand / right-hand)	Type of Mounting
53	1: Standard layout	1: 5" (127 mm)	X: Oxygen	1 x 2: One cylinder on the left,	1: Wall mount
	2: "L" Shape layout	2: 10" (254 mm)	Y: Acetylene	Two cylinders on the Right	2: Floor mount
	3: "U" shape layout	3: 13" (330 mm)	F: Propane	5 x 5: Five cylinders on the left,	
	4: Crossover layout	4: 18" (457 mm)	C: Carbon Dioxide	Five cylinders on the Right	6
	5: Staggered layout		IN: Ar, He, N ₂		
		Gr. Gr	Q: Air		
	y G		H: Hydrogen	Note: Direction of piping (Right or Left) is	
				indicated by facing the manifold.	G

Example: **5312X-5x5-1** indicates a 5 x 5 cylinder dual-bank manifold system. Distance between two cylinders is 10" on standard horizontal layout.

5400 series semi-automatic manifold system is designed to provide an uninterrupted gas supply. It consists of a primary bank and a reserve bank of cylinders. When the pressure in the primary cylinder bank reduces to the pre-set value, the changeover takes place automatically to provide continuous supply of gas from the reserve bank. Upon changing the cylinders, the regulators on both banks need to be re-adjusted in order for the changeover to occur automatically next time. The secondary regulator in the main pipeline stabilizes the outlet gas flow.



Features

Open-style manifold

5400 SERIES

Semi-Automatic Manifold Systems

- Secondary regulator for consistant high flow delivery pressure to the pipeline
- Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expanison needs
- System is mounted with gas filters
- Unique changeover valve provides uninterrupted supply of gas from primary and reserve banks
- Pressure switch port is 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.
- Gentec's high flow regulator series 155L (except for acetylene) & 155M-A.
- Carbon Dioxide manifold systems are provided with 155CG electric heating regulator. Siphon cylinder should not be used in the manifold system.

*: Refer to table on page 24 for pigtail information

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
Oxygen	5400X	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA540
Acetylene	5400Y	400 (28)	2~15 (0.14~1)	700 (20)	3/4" NPT (M)	Pigtail, CGA510
Propane	5400F	400 (28)	15~125 (1~8.6)	1050 (30)	3/4" NPT (M)	Pigtail, CGA510
Carbon Dioxide	5400C	3000 (207)	50~125 (3.5~8.6)	2100 (60)	3/4" NPT (M)	Pigtail, CGA320
Argon	5400IN	3000 (207)	50~200 (3.5~14)	1750 (50)	3/4" NPT (M)	Pigtail, CGA580
Helium	5400IN	3000 (207)	50~200 (3.5~14)	7000 (200)	3/4" NPT (M)	Pigtail, CGA580
Nitrogen	5400IN	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA580
Air	5400Q	3000 (207)	50~200 (3.5~14)	3500 (100)	3/4" NPT (M)	Pigtail, CGA346
Hydrogen	5400H	3000 (207)	50~200 (3.5~14)	10500 (300)	3/4" NPT (M)	Pigtail, CGA350

Semi-Automatic Manifold Systems

Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Argon, Nitrogen, Helium	35.9 (912)	29.1 (739)	55.1 (1400)
Acetylene, Propane, Hydrogen	35.9 (912)	36.0 (913)	51.2 (1300)
Carbon Dioxide	35.9 (912)	29.1 (739)	55.1 (1400)

Manifold System Layouts

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

54	(1)	2	X	- 5 x 5	< <u>- 1</u>
Series	Manifold System Layout	Cylinder Valve Spacing	Gas Service	Number of Cylinders (left-hand / right-hand)	Type of Mounting
54	1: Standard layout	1: 5" (127 mm)	X: Oxygen	1 x 2: One cylinder on the left,	1: Wall mount
	2: "L" Shape layout	2: 10" (254 mm)	Y: Acetylene	Two cylinders on the Right	2: Floor mount
	3: "U" shape layout	3: 13" (330 mm)	F: Propane	5 x 5: Five cylinders on the left,	
	4: Crossover layout	4: 18" (457 mm)	C: Carbon Dioxide	Five cylinders on the Right	6
	5: Staggered layout		IN: Ar, He, N ₂		
		Gr. Gr	Q: Air		
	y G		H: Hydrogen	Note: Direction of piping (Right or Left) is	
				indicated by facing the manifold.	C ²

Example: **5412X-5x5-1** indicates a 5 x 5 cylinder semi-automatic manifold system. Distance between two cylinders is 10" on standard horizontal layout.

GM1E-A SERIES

Dome-bias Semi-Automatic Manifold Systems

GM1E-A series Dome-bias Semi-automatic Manifold System is designed to provide an uninterrupted gas supply. It consists of a primary bank and a reserve bank of cylinders. When the pressure in the primary cylinder bank reduces to the preset value, the changeover takes place automatically to provide continuous supply of gas from the reserve bank. The priority handle should be manually switched during cylinder change.



Features

Semi-automatic Changeover System

- · Pressure gauge indicates gas source and outlet pressure
- Relief valve at outlet for protecting downstream piping
- Pressure switch port is available
- Mechanical dome-bias changeover design
- · Priority Indicator valve
- Suitable for high flow system; rated for 120 m³/h (4200 SCFH)* to 170 m³/h (6000 SCFH)**

Pipeline

- Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expansion needs
- Optional external filter provides easy replacement of filter element
- Optional master shutoff valves
- Headers have been tested to withstand high cylinder pressure
- Wall or floor mount available

* When delivery pressure is 50 psi ** When delivery pressure is 180 psi

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.
- Carbon Dioxide manifold systems are provided with H900G electric heating regulator. Siphon cylinder should not be used in the manifold system.

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
	GM1E-AL-O2	3000 (207)	50~75 (3.5~5.2)	3500 (100)	3/4" NPT (F)	Pigtail, CGA540
Oxygen	GM1E-AM-O2	3000 (207)	100~125 (6.9~8.6)	4200 (120)	3/4" NPT (F)	Pigtail, CGA540
	GM1E-AH-O2	3000 (207)	150~200 (10.35~13.8)	6000 (170)	3/4" NPT (F)	Pigtail, CGA540
Air	GM1E-AL-AIR	3000 (207)	50~75 (3.5~5.2)	3500 (100)	3/4" NPT (F)	Pigtail, CGA346
	GM1E-AM-AIR	3000 (207)	100~125 (6.9~8.6)	4200 (120)	3/4" NPT (F)	Pigtail, CGA346
	GM1E-AH-AIR	3000 (207)	150~200 (10.35~13.8)	6000 (170)	3/4" NPT (F)	Pigtail, CGA346
NIT	GM1E-AL-N2O	3000 (207)	50~75 (3.5~5.2)	1060 (30)	3/4" NPT (F)	Pigtail, CGA326
Nitrous Oxide	GM1E-AM-N2O	3000 (207)	100~125 (6.9~8.6)	1060 (30)	3/4" NPT (F)	Pigtail, CGA326
Qaabaa Diawida	GM1E-AL-CO2	3000 (207)	50~75 (3.5~5.2)	1060 (30)	3/4" NPT (F)	Pigtail, CGA320
Carbon Dioxide	GM1E-AM-CO2	3000 (207)	100~125 (6.9~8.6)	1060 (30)	3/4" NPT (F)	Pigtail, CGA320
A	GM1E-AL-IN	3000 (207)	50~75 (3.5~5.2)	3500 (100)	3/4" NPT (F)	Pigtail, CGA580
Argon, Helium, Nitrogen	GM1E-AM-IN	3000 (207)	100~125 (6.9~8.6)	4200 (120)	3/4" NPT (F)	Pigtail, CGA580
	GM1E-AH-IN	3000 (207)	150~200 (10.35~13.8)	6000 (170)	3/4" NPT (F)	Pigtail, CGA580

Dome-bias Semi-Automatic Manifold Systems

Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Nitrous Oxide, Argon, Nitrogen, Helium	41.3 (1050)	15.8 (400)	55.1 (1400)
Carbon Dioxide	56.3 (1430)	15.8 (400)	55.1 (1400)

Manifold System Layouts

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

GM1E-A	È C	- 02	- U	- (5L x 5R	- S	2)
Series	Delivery Pressure	Gas Service	Standard Code	Number of Cylinders (left-hand / right-hand)	Manifold System Layout	Cylinder Valve Spacing
GM1E-A	L: 50~75 psi	O2: Oxygen	U: USA Standard	1L x 2R: One cylinder on the left,	S: Standard layout	1: 5" (127 mm)
	M: 100~125 psi	AIR: Air	E: ISO Standard	Two cylinders on the Right	L: "L" Shape layout	2: 10" (254 mm)
	H: 150~200 psi	N2O: Nitrous	20	5L x 5R: Five cylinders on the left,	U: "U" shape layout	3: 13" (330 mm)
	.C .C	Oxide		Five cylinders on the Right	D: Crossover layout	4: 18" (457 mm)
		CO2: Carbon			X: Staggered layout	
		Dioxide	0	C		
	U U	IN: Ar, He, N ₂	.0.	Note: Direction of piping (Right or Left) is		
	6 10			indicated by facing the manifold.		G ^v

Example: GM1E-AL-O2-U-(5Lx5R-S2) indicates a 5*5 oxygen cylinder semi-automatic manifold system. Distance between two cylinders is 10" on standard horizontal layout. NFPA99 color code (USA)

GM1E-AL-O2-U-(0x0) indicates an oxygen changeover system with filters and master shutoff valves. NFPA99 color code (USA) GM1E-AL-O2-U indicates an oxygen changeover system only. NFPA99 color code (USA)

Dome-bias Semi-Automatic Manifold Systems

GM1-A series dome-bias semi-automatic manifold system is designed to provide an uninterrupted gas supply. It consists of a primary bank and a reserve bank of cylinders. When the pressure in the primary cylinder bank reduces to the preset value, the changeover takes place automatically to provide continuous supply of gas from the reserve bank. The priority handle should be manually switched during cylinder change.



Features

Semi-automatic Changeover System

- · Fully enclosed, dust-proof metal cabinet
- Pressure gauge indicates gas source and outlet pressure
- Secondary regulator for consistent pressure and flow delivery to the pipeline
- · Relief valve at outlet for protecting downstream piping
- Pressure switch port is available
- Mechanical dome-bias changeover design
- Priority Indicator valve
- Suitable for high flow system; rated for 120 m³/h (4200 SCFH)* to 170 m³/h (6000 SCFH)**
- When delivery pressure is 50 psi

Specifications

** When delivery pressure is 180 psi

Pipeline

- · Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expansion needs
- · Optional external filter provides easy replacement of filter element
- Optional master shutoff valves
- · Headers have been tested to withstand high cylinder pressure
- · Wall or floor mount available

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
	GM1-AL-O2	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA540
Oxygen	GM1-AM-O2	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA540
r Gr	GM1-AH-O2	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA540
	GM1-AL-AIR	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA346
Air	GM1-AM-AIR	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA346
\sim \leq	GM1-AH-AIR	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA346
Nites outsta	GM1-AL-N2O	3000 (207)	50~75 (3.5~5.2)	1060 (30)	Rc 3/4"Union	Pigtail, CGA326
INItrous Oxide	GM1-AM-N2O	3000 (207)	100~125 (6.9~8.6)	1060 (30)	Rc 3/4"Union	Pigtail, CGA326
O anh an Diavida	GM1-AL-CO2	3000 (207)	50~75 (3.5~5.2)	1060 (30)	Rc 3/4"Union	Pigtail, CGA320
Carbon Dioxide	GM1-AM-CO2	3000 (207)	100~125 (6.9~8.6)	1060 (30)	Rc 3/4"Union	Pigtail, CGA320
×	GM1-AL-IN	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA580
Argon, Hellum,	GM1-AM-IN	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA580
Nillogen	GM1-AH-IN	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA580
Acetylene	GM1-AL-C2H2	435 (30)	1.5~14.5 (0.1~1)	700 (20)	Rc 3/4"Union	Pigtail, CGA510
Propane	GM1-AL-C3H8	435 (30)	4.4~125 (0.3~8.5)	1060 (30)	Rc 3/4"Union	Pigtail, CGA510
Hydrogen	GM1-AH-H2	3000 (207)	10~200 (0.7~14)	30500 (300)	Rc 3/4"Union	Pigtail, CGA350

Solutions for Life

Dome-bias Semi-Automatic Manifold Systems

Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Nitrous Oxide, Argon, Nitrogen, Helium	41.3 (1050)	15.8 (400)	55.1 (1400)
Acetylene, Propane, Hydrogen	41.3 (1050)	21.7 (550)	55.1 (1400)
Carbon Dioxide	56.3 (1430)	15.8 (400)	55.1 (1400)

Manifold System Layouts

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

GM1-A	e c	- 02	- U	- (5L x 5R	- S	2)
Series	Delivery Pressure	Gas Service	Standard Code	Number of Cylinders (Left-hand x Right-hand)	Manifold System Layout	Cylinder Valve Spacing
GM1-A	L: 50~75 psi	O2: Oxygen	U: USA Standard	1L x 2R: One cylinder on the left,	S: Standard layout	1: 5" (127 mm)
6	M: 100~125 psi	AIR: Air	E: ISO Standard	Two cylinders on the Right	L: "L" Shape layout	2: 10" (254 mm)
	H: 150~200 psi	N2O: Nitrous Oxide	20	5L x 5R: Five cylinders on the left,	U: "U" shape layout	3: 13" (330 mm)
		CO2: Carbon Dioxide		Five cylinders on the Right	D: Crossover layout	4: 18" (457 mm)
		IN: Ar, He, N ₂	5 0		X: Staggered layout	.0.
		C2H2: Acetylene				
G		C3H8: Propane		Note: Direction of piping (Right or Left) is		
	6.	H2: Hydrogen		indicated by facing the manifold.	e de la companya de l	GY C

Example: GM1-AL-O2-U-(5Lx5R-S2) indicates a 5*5 oxygen cylinder semi-automatic manifold system. Distance between two cylinders is 10" on standard horizontal layout. NFPA99 color code (USA)

GM1-AL-O2-U-(0x0) indicates an oxygen changeover system with filters and master shutoff valves. NFPA99 color code (USA) GM1-AL-O2-U indicates an oxygen changeover system only. NFPA99 color code (USA)

Dome-bias Fully-Automatic Analog Manifold Systems

GM2-A series dome-bias fully-automatic analog manifold systems is designed to provide an uninterrupted gas supply without any manual adjustments. This system automatically switches over when the primary cylinder bank is depleted. Even in case of a power failure, the system continues to supply gas without interruption. The system is designed to meet the latest edition of NFPA 99 and CGA standards.



Features

Semi-automatic Changeover System

- · 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

Pipeline

- Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expanison 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.
- Carbon Dioxide manifold systems are provided with H900G electric heating regulator. Siphon cylinder should not be used in the manifold system.

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
	GM2-AL-O2	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA540
Oxygen	GM2-AM-O2	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA540
	GM2-AH-O2	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA540
Air	GM2-AL-AIR	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA346
	GM2-AM-AIR	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA346
	GM2-AH-AIR	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA346
NIT	GM2-AL-N2O	3000 (207)	50~75 (3.5~5.2)	1060 (30)	Rc 3/4"Union	Pigtail, CGA326
Nitrous Oxide	GM2-AM-N2O	3000 (207)	100~125 (6.9~8.6)	1060 (30)	Rc 3/4"Union	Pigtail, CGA326
Qash an Disuida	GM2-AL-CO2	3000 (207)	50~75 (3.5~5.2)	1060 (30)	Rc 3/4"Union	Pigtail, CGA320
Carbon Dioxide	GM2-AM-CO2	3000 (207)	100~125 (6.9~8.6)	1060 (30)	Rc 3/4"Union	Pigtail, CGA320
A	GM2-AL-IN	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA580
Argon, Helium, Nitrogen	GM2-AM-IN	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA580
	GM2-AH-IN	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA580

Dome-bias Fully-Automatic Analog Manifold Systems

Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Nitrous Oxide, Argon, Nitrogen, Helium	44.1 (1120)	15.8 (400)	55.1 (1400)
Carbon Dioxide	56.3 (1430)	15.8 (400)	55.1 (1400)

Manifold System Layouts

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

GM2-A	de la constante	- 02	- U	- (5L x 5R	- S	2)
Series	Delivery Pressure	Gas Service	Standard Code	Number of Cylinders (left-hand / right-hand)	Manifold System Layout	Cylinder Valve Spacing
GM2-A	L: 50~75 psi	O2: Oxygen	U: USA Standard	1L x 2R: One cylinder on the left,	S: Standard layout	1: 5" (127 mm)
	M: 100~125 psi	AIR: Air	E: ISO Standard	Two cylinders on the Right	L: "L" Shape layout	2: 10" (254 mm)
	H: 150~200 psi	N2O: Nitrous Oxide	20	5L x 5R: Five cylinders on the left,	U: "U" shape layout	3: 13" (330 mm)
	,C 4	CO2: Carbon Dioxide		Five cylinders on the Right	D: Crossover layout	4: 18" (457 mm)
	AN AN	IN: Ar, He, N ₂	5 0		X: Staggered layout	.0.
		Gr				
				Note: Direction of piping (Right or Left) is	. S	
				indicated by facing the manifold.		67

Example: GM2-AL-O2-U-(5Lx5R-S2) indicates a 5*5 oxygen cylinder fully-automatic analog 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) Dome-bias Fully-Automatic Digital Manifold Systems

GM2-D series dome-bias fully-automatic digital manifold systems is designed to provide an uninterrupted gas supply. The fully automatic digital manifold system monitors cylinder bank pressure electronically, automatically changes over to secondary bank when the primary cylinder bank is depleted, and eliminates the need to manually set a priority side. In case of power failure, the system continues to supply gas without interruption. Using our second generation pressure differential switchover valve and newly designed manifold regulators boosts the flowrate and reliability of the system.





Automatic Changeover Cabinet

- · Fully enclosed, tamper- resistant metal cabinet
- On-site Display: Indicator lights of system status, gauge pressures, visual remote alarm box provide system status; digital display of pressure; with changeover alarm function
- Pressure switch control
- External filter facilitates replacement of filtration elements
- · Patent pending changeover technology

Standard Construction

Pipeline

- Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expanison 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
- 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.
- Carbon Dioxide manifold systems are provided with H900DG electric heating regulator. Siphon cylinder should not be used in the manifold system.

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
	GM2-DL-O2	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA540
Oxygen	GM2-DM-O2	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA540
	GM2-DH-O2	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA540
	GM2-DL-AIR	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA346
Air	GM2-DM-AIR	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA346
	GM2-DH-AIR	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA346
NIT	GM2-DL-N2O	3000 (207)	50~75 (3.5~5.2)	1060 (30)	Rc 3/4"Union	Pigtail, CGA326
Nitrous Oxide	GM2-DM-N2O	3000 (207)	100~125 (6.9~8.6)	1060 (30)	Rc 3/4"Union	Pigtail, CGA326
Qarkar Disuida	GM2-DL-CO2	3000 (207)	50~75 (3.5~5.2)	1060 (30)	Rc 3/4"Union	Pigtail, CGA320
Carbon Dioxide	GM2-DM-CO2	3000 (207)	100~125 (6.9~8.6)	1060 (30)	Rc 3/4"Union	Pigtail, CGA320
Argon, Helium, Nitrogen	GM2-DL-IN	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA580
	GM2-DM-IN	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA580
	GM2-DH-IN	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA580

GM2-D SERIES

Solutions for Life

Dome-bias Fully-Automatic Digital Manifold Systems

Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Nitrous Oxide, Argon, Nitrogen, Helium	44.1 (1120)	15.8 (400)	55.1 (1400)
Carbon Dioxide	56.3 (1430)	15.8 (400)	55.1 (1400)

Manifold System Layouts

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

GM2-D	e c	- 02	- U	- (5L x 5R	- s 🖉	2)
Series	Delivery Pressure	Gas Service	Standard Code	Number of Cylinders (left-hand / right-hand)	Manifold System Layout	Cylinder Valve Spacing
GM2-D	L: 50~75 psi	O2: Oxygen	U: USA Standard	1L x 2R: One cylinder on the left,	S: Standard layout	1: 5" (127 mm)
	M: 100~125 psi	AIR: Air	E: ISO Standard	Two cylinders on the Right	L: "L" Shape layout	2: 10" (254 mm)
	H: 150~200 psi	N2O: Nitrous Oxide	20	5L x 5R: Five cylinders on the left,	U: "U" shape layout	3: 13" (330 mm)
1	,C ,	CO2: Carbon Dioxide		Five cylinders on the Right	D: Crossover layout	4: 18" (457 mm)
		IN: Ar, He, N ₂			X: Staggered layout	
		G		6. 4		
G			.0.	Note: Direction of piping (Right or Left) is		
	·			indicated by facing the manifold.		GV C

Example: GM2-DL-O2-U-(5Lx5R-S2) indicates a 5*5 oxygen cylinder fully-automatic digital manifold system. Distance between two cylinders is 10" on standard horizontal layout. NFPA99 color code (USA) GM2-DL-O2-U-(0x0) indicates an oxygen changeover system with filters and master shutoff valves. NFPA99 color code (USA) GM2-DL-O2-U indicates an oxygen changeover system only. NFPA99 color code (USA) Dome-bias Fully-Automatic Touch Screen Manifold Systems

GM2-T Series dome-bias fully-automatic touch screen manifold systems is designed to provide an uninterrupted gas supply without any manual adjustments. This system automatically switches over when the primary cylinder bank is depleted. Even in case of a power failure, the system continues to supply gas without interruption. The system is designed to meet the latest edition of NFPA 99 and CGA standards.



Features

Automatic Changeover Cabinet

- Fully enclosed, dust-proof metal cabinet
- · Automatic Switchover when pressure is below preset limit
- Touch Screen LCD Display for easy control and monitoring
- · Automatically generated alarm table
- Built-in network connection, can be integrated to the network system for real-time monitoring with RS-485 or ethernet cable
- Suitable for high flow system; rated for 120 m3/h (4200 SCFH)* to 170m³/h (6000 SCFH)**

Pipeline

- Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expanison 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

* When delivery pressure is 50 psi ** When delivery pressure is 180 psi

Standard Construction

- 24" flexible high pressure stainless steel braided pigtails with check valve, Rigid copper pigtails are standard when gas service is oxygen.
- Carbon Dioxide manifold systems are provided with H900DG electric heating regulator. Siphon cylinder should not be used in the manifold system.

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
	GM2-TL-O2	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA540
Oxygen	GM2-TM-O2	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA540
	GM2-TH-O2	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA540
Air	GM2-TL-AIR	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA346
	GM2-TM-AIR	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA346
	GM2-TH-AIR	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA346
	GM2-TL-N2O	3000 (207)	50~75 (3.5~5.2)	1060 (30)	Rc 3/4"Union	Pigtail, CGA326
Nitrous Oxide	GM2-TM-N2O	3000 (207)	100~125 (6.9~8.6)	1060 (30)	Rc 3/4"Union	Pigtail, CGA326
Oark an Diswide	GM2-TL-CO2	3000 (207)	50~75 (3.5~5.2)	1060 (30)	Rc 3/4"Union	Pigtail, CGA320
Carbon Dioxide	GM2-TM-CO2	3000 (207)	100~125 (6.9~8.6)	1060 (30)	Rc 3/4"Union	Pigtail, CGA320
6	GM2-TL-IN	3000 (207)	50~75 (3.5~5.2)	3500 (100)	Rc 3/4"Union	Pigtail, CGA580
Argon, Helium, Nitrogen	GM2-TM-IN	3000 (207)	100~125 (6.9~8.6)	4200 (120)	Rc 3/4"Union	Pigtail, CGA580
	GM2-TH-IN	3000 (207)	150~200 (10.35~13.8)	6000 (170)	Rc 3/4"Union	Pigtail, CGA580

GM2-T SERIES

Solutions for Life

Dome-bias Fully-Automatic Touch Screen Manifold Systems

Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Nitrous Oxide, Argon, Nitrogen, Helium	44.1 (1120)	15.8 (400)	55.1 (1400)
Carbon Dioxide	56.3 (1430)	15.8 (400)	55.1 (1400)

Manifold System Layouts

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

GM2-T	de de	- 02	- U	- (5L x 5R	- s	2)
Series	Delivery Pressure	Gas Service	Standard Code	Number of Cylinders (left-hand / right-hand)	Manifold System Layout	Cylinder Valve Spacing
GM2-T	L: 50~75 psi	O2: Oxygen	U: USA Standard	1L x 2R: One cylinder on the left,	S: Standard layout	1: 5" (127 mm)
	M: 100~125 psi	AIR: Air	E: ISO Standard	Two cylinders on the Right	L: "L" Shape layout	2: 10" (254 mm)
	H: 150~200 psi	N2O: Nitrous Oxide	20	5L x 5R: Five cylinders on the left,	U: "U" shape layout	3: 13" (330 mm)
		CO2: Carbon Dioxide		Five cylinders on the Right	D: Crossover layout	4: 18" (457 mm)
		IN: Ar, He, N ₂			X: Staggered layout	
		G		C. (
			.0.	Note: Direction of piping (Right or Left) is		
				indicated by facing the manifold.		6

Example: GM2-TL-O2-U-(5Lx5R-S2) indicates a 5*5 oxygen cylinder fully-automatic touch screen manifold system. Distance between two cylinders is 10" on standard horizontal layout. NFPA99 color code (USA) GM2-TL-O2-U-(0x0) indicates an oxygen changeover system with filters and master shutoff valves. NFPA99 color code (USA) GM2-TL-O2-U indicates an oxygen changeover system only. NFPA99 color code (USA) GM3-A Series dome-bias fully-automatic analog hybrid manifold systems is designed to provide an uninterrupted gas supply without any manual adjustments. This system uses liquid cryogenic tank as primary gas source and automatically switches over to the cylinder bank when the tank is below the lower limit. Even in case of a power failure, the system continues to supply gas without interruption. The system is designed to meet the latest edition of NFPA 99 and EN ISO 7396-1 standards.



Features

Automatic Changeover Cabinet

- · Fully enclosed, tamper- resistant metal cabinet
- Light indicators provide system status
- Dual-stage regulator, stable output pressure and flow
- Systems for fuel gas come with an anti-explosive device
- · External filter facilitates replacement of filtration elements

PipelineSilver I

- Silver brazing on piping joints for maximum leak prevention
 System is designed to accommodate future expanison 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

- 59" (1500mm) stainless steel braided pigtails for primary gas supply and 36" (914mm) stainless steel braided pigtails for auxiliary air supply
- Rigid copper pigtails are standard when gas service is oxygen
- · Carbon dioxide manifold systems are provided with H900G electric gas heater

Gas Service	Series	Max. Inlet Pressure psi (bar)		Delivery Pressure	Max. Delivery Flow	Outlet Connection	Pigtail Specifications	
		Primary	Secondary	psi (bar)	SCFH (m ³ /h)		Primary	Secondary
S	GM3-AL-O2	435 (30)	3000 (207)	50~75 (3.5~5.2)	1060~3500 (30~100)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA540
Oxygen	GM3-AM-O2	435 (30)	3000 (207)	100~125 (6.9~8.6)	1060~4200 (30~120)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA540
	GM3-AH-O2	435 (30)	3000 (207)	150~200 (10.35~13.8)	1060~6000 (30~170)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA540
	GM3-AL-AIR	435 (30)	3000 (207)	50~75 (3.5~5.2)	1060~3500 (30~100)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA346
Air	GM3-AM-AIR	435 (30)	3000 (207)	100~125 (6.9~8.6)	1060~4200 (30~120)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA346
	GM3-AH-AIR	435 (30)	3000 (207)	150~200 (10.35~13.8)	1060~6000 (30~170)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA346
Carbon Diavida	GM3-AL-CO2	435 (30)	3000 (207)	50~75 (3.5~5.2)	1060~1750 (30~50)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA320
Carbon Dioxide	GM3-AM-CO2	435 (30)	3000 (207)	100~125 (6.9~8.6)	1060~1750 (30~50)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA320
	GM3-AL-IN	435 (30)	3000 (207)	50~75 (3.5~5.2)	1060~3500 (30~100)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA580
Argon, Nitrogen	GM3-AM-IN	435 (30)	3000 (207)	100~125 (6.9~8.6)	1060~4200 (30~120)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA580
	GM3-AH-IN	435 (30)	3000 (207)	150~200 (10.35~13.8)	1060~6000 (30~170)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA580

GM3-A SERIES

Solutions for Life

Dome-bias Fully-Automatic Analog Hybrid Manifold Systems

Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Argon, Nitrogen	44.1 (1120)	15.8 (400)	55.1 (1400)
Carbon Dioxide	56.3 (1430)	15.8 (400)	55.1 (1400)

Manifold System Layouts

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

GM3-A	de la constante	- 02	- U	- (5L x 5R	- s	2)
Series	Delivery Pressure	Gas Service	Standard Code	Number of Cylinders (left-hand / right-hand)	Manifold System Layout	Cylinder Valve Spacing
GM3-A	L: 50~75 psi	O2: Oxygen	U: USA Standard	1L x 2R: One cylinder on the left,	S: Standard layout	1: 5" (127 mm)
	M: 100~125 psi	AIR: Air	E: ISO Standard	Two cylinders on the Right	L: "L" Shape layout	2: 10" (254 mm)
	H: 150~200 psi	CO2: Carbon Dioxide	20	5L x 5R: Five cylinders on the left,	U: "U" shape layout	3: 13" (330 mm)
	,C ,A	IN: Ar, N ₂		Five cylinders on the Right	D: Crossover layout	4: 18" (457 mm)
			5 0		X: Staggered layout	
		G		()		
				Note: Direction of piping (Right or Left) is		
				indicated by facing the manifold.		George C

Example: GM3-AL-O2-U-(5Lx5R-S2) indicates a 5*5 oxygen cylinder fully-automatic analog hybrid manifold system. Distance between two cylinders is 10" on standard horizontal layout. NFPA99 color code (USA) GM3-AL-O2-U-(0x0) indicates an oxygen changeover system with filters and master shutoff valves. NFPA99 color code (USA) GM3-AL-O2-U indicates an oxygen changeover system only. NFPA99 color code (USA) GM3-T series dome-bias fully-automatic touch screen hybrid manifold systems is designed to provide an uninterrupted gas supply without any manual adjustments. This system uses liquid cryogenic tank as primary gas source and automatically switches over to the cylinder bank when the tank is below the lower limit. Even in case of a power failure, the system continues to supply gas without interruption. The system is designed to meet the latest edition of NFPA 99 and EN ISO 7396-1 standards.



Features

Automatic Changeover Cabinet

- · Fully enclosed, dust-proof metal cabinet
- 10" Touch Screen Display with Password protected interface
- Dual-stage regulator, stable output pressure and flow
- · With safety device to prevent the system pressure from being too high
- · Full networking capabilities including Modbus RTU/TCP,
- UDP protocols, Auto generated alarm table and trend log

Header

- Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expanison needs
- System is mounted with gas filters
- Pressure switch port available
- · Headers have been tested to withstand high cylinder pressure
- · Cleaned for Oxygen use according to CGA 4.1 and ISO 15001
- Comply with NFPA 99, HTM 02-01 and ISO 7396
- Wall or floor mount available

Standard Construction

- 59" (1500mm) stainless steel braided pigtails for primary gas supply and 36" (914mm) stainless steel braided pigtails for auxiliary air supply
- Rigid copper pigtails are standard when gas service is oxygen
- Carbon dioxide manifold systems are provided with H900G electric gas heater

Gas Service	Series	Max. Inlet Pressure psi (bar)		Delivery Pressure	Max. Delivery Flow	Outlet Connection	Pigtail Specifications	
		Primary	Secondary	psi (bar)	SCFH (m ³ /h)		Primary	Secondary
S	GM3-TL-O2	435 (30)	3000 (207)	50~75 (3.5~5.2)	1060~3500 (30~100)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA540
Oxygen	GM3-TM-O2	435 (30)	3000 (207)	100~125 (6.9~8.6)	1060~4200 (30~120)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA540
	GM3-TH-O2	435 (30)	3000 (207)	150~200 (10.35~13.8)	1060~6000 (30~170)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA540
	GM3-TL-AIR	435 (30)	3000 (207)	50~75 (3.5~5.2)	1060~3500 (30~100)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA346
Air	GM3-TM-AIR	435 (30)	3000 (207)	100~125 (6.9~8.6)	1060~4200 (30~120)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA346
	GM3-TH-AIR	435 (30)	3000 (207)	150~200 (10.35~13.8)	1060~6000 (30~170)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA346
Carbon Diavida	GM3-TL-CO2	435 (30)	3000 (207)	50~75 (3.5~5.2)	1060~1750 (30~50)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA320
Carbon Dioxide	GM3-TM-CO2	435 (30)	3000 (207)	100~125 (6.9~8.6)	1060~1750 (30~50)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA320
	GM3-TL-IN	435 (30)	3000 (207)	50~75 (3.5~5.2)	1060~3500 (30~100)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA580
Argon, Nitrogen	GM3-TM-IN	435 (30)	3000 (207)	100~125 (6.9~8.6)	1060~4200 (30~120)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA580
	GM3-TH-IN	435 (30)	3000 (207)	150~200 (10.35~13.8)	1060~6000 (30~170)	Rc 3/4"Union	Rc 3/4"Union	Pigtail, CGA580

GM3-T SERIES

Solutions for Life

Dome-bias Fully-Automatic Touch Screen Hybrid Manifold Systems

Installation Dimensions



Gas Service	W in.(mm)	H1 in.(mm)	H2 in.(mm)
Oxygen, Air, Argon, Nitrogen	44.1 (1120)	15.8 (400)	55.1 (1400)
Carbon Dioxide	56.3 (1430)	15.8 (400)	55.1 (1400)

Manifold System Layouts

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

GM3-T	de la constante	- 02	- U	- (5L x 5R	- s	2)
Series	Delivery Pressure	Gas Service	Standard Code	Number of Cylinders (left-hand / right-hand)	Manifold System Layout	Cylinder Valve Spacing
GM3-T	L: 50~75 psi	O2: Oxygen	U: USA Standard	1L x 2R: One cylinder on the left,	S: Standard layout	1: 5" (127 mm)
	M: 100~125 psi	AIR: Air	E: ISO Standard	Two cylinders on the Right	L: "L" Shape layout	2: 10" (254 mm)
	H: 150~200 psi	CO2: Carbon Dioxide	20	5L x 5R: Five cylinders on the left,	U: "U" shape layout	3: 13" (330 mm)
	,C ,	IN: Ar, N ₂		Five cylinders on the Right	D: Crossover layout	4: 18" (457 mm)
					X: Staggered layout	
		G		C		
			.C.	Note: Direction of piping (Right or Left) is		
				indicated by facing the manifold.		67 0

 Example: GM3-TL-O2-U-(5Lx5R-S2) indicates a 5*5 oxygen cylinder fully-automatic touch screen hybrid manifold system. Distance between two cylinders is 10" on standard horizontal layout. NFPA99 color code (USA)
 GM3-TL-O2-U-(0x0) indicates an oxygen changeover system with filters and master shutoff valves. NFPA99 color code (USA)
 GM3-TL-O2-U indicates an oxygen changeover system only. NFPA99 color code (USA)

Solutions for Life

5500E series explosion-proof fully-automatic manifold systems are suitable for flammable gases and are specially designed to provide an uninterrupted gas upply without any manual adjustments. This system automatically changes over when the primarycylinder 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

Pipeline

- Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expanison 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

- 36" (914mm) flexible high pressure stainless steel braided pigtails with check valve
- For Acetylene or Fuel gas model, regulator outlet is equipped with a dry flashback arrestor (FA30PF) for additional safety.
- Siphon-type cylinder should not be used in the manifold system

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
Acetylene	5500EY	435 (30)	1.5~14.5 (0.1~1)	700 (20)	3/4" NPT (M)	Pigtail, CGA510
Propane	5500EF	435 (30)	4.4~125 (0.3~8.5)	1050 (30)	3/4" NPT (M)	Pigtail, CGA510
Hydrogen	5500EH	3000 (207)	10~200 (0.7~14)	10500 (300)	3/4" NPT (M)	Pigtail, CGA350

5500E SERIES

Solutions for Life

Explosion-proof Fully-Automatic Manifold Systems

Installation Dimensions



Manifold System Layouts

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

55	1 6	2	E	Υ	- 5 x 5	- 1
Series	Manifold System Layout	Cylinder Valve Spacing	Explosion-proof Type	Gas Service	Number of Cylinders (left-hand / right-hand)	Type of Mounting
55	1: Standard layout	1: 5" (127 mm)	E:Explosion-proof	Y: Acetylene	1 x 2: One cylinder on the left,	1: Wall mount
	2: "L" Shape layout	2: 10" (254 mm)	type	F: Propane	Two cylinders on the Right	2: Floor mount
	3: "U" shape layout	3: 13" (330 mm)		H: Hydrogen	5 x 5: Five cylinders on the left,	
	4: Crossover layout	4: 18" (457 mm)			Five cylinders on the Right	U.
	5: Staggered layout			GY		10
	32 67				Note: Direction of piping (Right or Left) is	
		STR.			indicated by facing the manifold.	GY (

Example: 5512EY-5x5-1 indicates a 5 x 5 cylinder acetylene fully-automatic manifold system. Distance between two cylinders is 10" on standard horizontal layout.

Solutions for Life

5600 series semi-automatic manifold systems is designed specifically for liquid vessels to provide an uninterrupted gas supply. When the primary liquid vessel is depleted, the changeover takes place automatically to provide continuous supply of gas from the reserve liquid vessel. Upon changing the vessel, the regulators on both banks need to be re-adjusted in order for the changover to occur automatically next time.



Features

- Semi-automatic changeover control
- Unique changeover valve provides uninterrupted supply of gas from primary and reserve vessels
- The whole system is pressure resistance tested
- Wall mount available

Ordering Information

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
Carbon Dioxide	5600C	435 (30)	5~125 (0.35~8.6)	1050 (30)	3/4" NPT (M)	Pigtail, CGA320
Argon		435 (30)	5~125 (0.35~8.6)	1750 (50)	3/4" NPT (M)	Pigtail, CGA580
Helium	5600IN	435 (30)	5~125 (0.35~8.6)	5250 (150)	3/4" NPT (M)	Pigtail, CGA580
Nitrogen		435 (30)	5~125 (0.35~8.6)	3150 (90)	3/4" NPT (M)	Pigtail, CGA580

Note: The flow rate depends on the vaporization rate of gas supplied.

· Please specify the "model number" when ordering.

Example: "5600C" indicates semi-automatic manifold system for liquid vessels.

Fully-Automatic Analog Manifold Systems for Liquid Vessel

5700A series fully-automatic analog manifold systems is designed specifically for liquid vessels to provide an uninterrupted gas supply without any manual operation. This system automatically changes over when the primary bank is depleted. Even in case of power failure, the system continues to operate without interruption.



Features

Automatic Changeover Cabinet

- Fully enclosed, tamper-resistant metal cabinet
- Light indicators provide system status, with changeover alarm function
- Gas saving structure reduces gas consumption in the reserve cylinder, safe and economical
- Pressure switch valve control
- External filter provides easy replacement of filteration element

Header

- Silver brazing on piping joints for maximum leak prevention
- System is designed to accommodate future expanison 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

Ordering Information

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
Oxygen	5700AX	435 (30)	4.4~87 (0.3~6.0)	2450 (70)	3/4" NPT (M)	Pigtail, CGA540
Carbon Dioxide	5700AC	435 (30)	4.4~87 (0.3~6.0)	1050 (30)	3/4" NPT (M)	Pigtail, CGA320
Argon		435 (30)	4.4~87 (0.3~6.0)	1750 (50)	3/4" NPT (M)	Pigtail, CGA580
Helium	5700AIN	435 (30)	4.4~87 (0.3~6.0)	6300 (180)	3/4" NPT (M)	Pigtail, CGA580
Nitrogen		435 (30)	4.4~87 (0.3~6.0)	2800 (80)	3/4" NPT (M)	Pigtail, CGA580

Note: The flow rate depends on the vaporization rate of gas supplied.

Please specify the "model number" when ordering.

Example: "5700AC" indicates fully-automatic analog manifold system for liquid vessels. Please provide gas phase delivery pressure of Dewar Vessel and operating pressure of the equipment to help us set the system parameters. Fully-Automatic Digital Manifold Systems for Liquid Vessel

5700AD series fully-automatic digital manifold systems is designed specifically for liquid vessels to provide an uninterrupted gas supply without any manual operation. This system automatically changes over when the primary bank is depleted. Even in case of power failure, the system continues to operate without interruption.



Features

Automatic Changeover Cabinet

- Fully enclosed, tamper-resistant metal cabinet
- On-site Display: Indicator lights of system status, Gauge Pressures, visual Remote alarm box provide system status;
 - Digital display of pressure; with changeover alarm function
- Pressure switch control
- External filter provides easy replacement of filteration element
- Patent pending changeover technology

Header

- · Silver brazing on piping joints for maximum leak prevention
- · System is designed to accommodate future expanison 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

Ordering Information

Gas Service	Series	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Outlet Connection	Pigtail Specifications
Oxygen	5700ADX	435 (30)	4.4~87 (0.3~6.0)	2450 (70)	3/4" NPT (M)	Pigtail, CGA540
Carbon Dioxide	5700ADC	435 (30)	4.4~87 (0.3~6.0)	1050 (30)	3/4" NPT (M)	Pigtail, CGA320
Argon		435 (30)	4.4~87 (0.3~6.0)	1750 (50)	3/4" NPT (M)	Pigtail, CGA580
Helium	5700ADIN	435 (30)	4.4~87 (0.3~6.0)	6300 (180)	3/4" NPT (M)	Pigtail, CGA580
Nitrogen		435 (30)	4.4~87 (0.3~6.0)	2800 (80)	3/4" NPT (M)	Pigtail, CGA580

Note: The flow rate depends on the vaporization rate of gas supplied.

· Please specify the "model number" when ordering.

Example: "5700ADX" indicates automatic digital manifold system for liquid vessels.

MANIFOLD CHANGEOVER CABINET

Manifold Changeover Cabinet

Single-bank Changeover System

Designed for Single-Bank cylinder manifold systems (right or left).

- Inlet connection thread: 1-11 1/2NPS RH(M)
- Outlet connection thread: 3/4" NPT(M)
- Max.Inlet Pressure: 3000 psi for Oxygen, Carbon Dioxide, Argon, Nitrogen, Helium, Air 400 psi for Acetylene, Propane



Model Number	Gas Service	Description		
5200X-00L	Oxygen	Left Bank		
5200X-00R	Oxygen	Right Bank		
5200YD-00L	Acetylene	Left Bank With FA (FA30PF)		
5200YD-00R	Acetylene	Right Bank With FA (FA30PF)		
5200FD-00L	Propane	Left Bank With FA (FA30PF)		
5200FD-00R	Propane	Right Bank With FA (FA30PF)		
5200FH-00R Propane		Left Bank With FA (GFA-1000 LPG)		
5200C-00L	Carbon Dioxide	Left Bank With Gas Heater		
5200C-00R	Carbon Dioxide	Right Bank With Gas Heater		
5200IN-00L	Argon, Nitrogen, Helium	Left Bank		
5200IN-00R	Argon, Nitrogen, Helium	Right Bank		
5200Q-00L	Air G	Left Bank		
5200Q-00R Air Right Banl		Right Bank		
5200H-00L Hydrogen		Left Bank		
5200H-00R	Hydrogen	Right Bank		

Dual-bank Changeover System

Designed for dual-bank manifold systems

Inlet connection thread:1"-11-1/2NPS RH (M)



Model Number	Gas Service	Accessories
5300X-00	Oxygen	.0
5300YD-00	Acetylene	With FA (FA30PF)
5300FD-00	Acetylene	With FA (FA30PF)
5300C-00	Carbon Dioxide	With Gas Heater
5300IN-00	Argon, Nitrogen, Helium	
5300H-00	Hydrogen	

MANIFOLD CHANGEOVER CABINET

Manifold Changeover Cabinet

Semi-automatic Changeover Manifold Systems



Automatic Changeover Cabinet



GM2-AL-O2-U

Designed for semi-automatic changeover manifold systems.

- Inlet connection thread: 1-11 1/2NPS RH(M)
- Outlet connection thread: 3/4" NPT(M)
- Max.Inlet Pressure: 3000 psi for Oxygen, Carbon Dioxide, Argon, Nitrogen, Helium, Air; 400 psi for Acetylene, Propane

Model Number	Gas Service	Accessories
5400X-00	Oxygen	- 67
5400YD-00	Acetylene	With FA (FA30PF)
5400FD-00	Propane	With FA (FA30PF)
5400C-00	Carbon Dioxide	With Gas Heater
5400IN-00	Argon, Nitrogen, Helium	- 62 67
5400Q-00	Air	-
5400H-00	Hydrogen	- 19

- Suitable for automatic manifold changeover system. Even in case of power failure, the system continues to operate without interruption
- Detachable rollover cabinet cover, easy to maintain and service
- Three-way gas pressure display
- The panel shows the system working status
- Two-stage regulator construction for stable gas delivery
- High accuracy pressure switch control
- · Wall mount available
- Inlet connection thread: 1"-11-1/2NPS(M)
 Outlet connection thread: Rc 3/4"Union
- Safety Discharge Port: G 3/4"
- Electrical setting: Operating voltage 220VAC, insulation between strong and weak current
- Dimensions: 20"(W) x 24"(H) x 8"(D) (508 x 610 x 203mm)

Model Number	Gas Service	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Max. Delivery Flow SCFH (m ³ /h)	Accessories
GM2-*-O2-U					
GM2-*-O2-U-(0X0)	Oxygen	3000 (207)		6000 (170)	With filters and master shutoff valves
GM2-*-IN-U	Araon. Helium.	3000 (207)		6000 (170)	- , , , , , , , , , , , , , , , , , , ,
GM2-*-IN-U-(0X0)	Nitrogen		50~75 (3.5~5.2)		With filters and master shutoff valves
GM2-*-N2O-U		3000 (207) 3000 (207)	100~125 (6.9~8.6)	G	-
GM2-*-N2O-U-(0X0)	Nitrous Oxide		150~200 (10.35~13.8)	1750 (50)	With filters, master shutoff valves and Gas Heater
GM2-*-CO2-U	_				- X
GM2-*-CO2-U-(0X0)	Carbon Dioxide			1750 (50)	With filters, master shutoff valves and Gas Heater

*: Suitable for GM2-A, GM2-D, GM2-T Series Manifold Systems.

Manifold Pipings & Header Extensions

Solutions for Life

Manifold Pipings

Header extension consists of a gas delivery pipe and header valves. It is expandable for different application requirements.



GHNS-310X (Single valve per header block for straight configuration) GHND-310X (Dual Valves per header block for staggered configuration) GHNQ-102X (Quad Valves per header block for space saving) GHNQ-102X (Dual Valves per header block for space saving) Machined with class "A" brass stock Silver brazing on piping joints for maximum leak prevention Maximum working pressure: 3000 psi

- Inlet (Header valve): Fuel Gas-CGA 510
 - Other gases-CGA540
- Outlet: 1"-11-1/2NPS

Ordering Information

• Please follow the instructions below to select the correct model number.

GH	E	R	- 3	10	x
Series	Valve Type	Piping Shape & Layout joints	No. of Joints	Joints Spacing	Gas Service
GH	E: Globe Valve	R: Right-hand manifold pipings	2: Two Joints	02: 1.5" (40 mm)	X: Oxygen
		L: Right-hand manifold pipings	3: Three Joints	05: 5" (127 mm)	Y: Acetylene
2		C: Dual manifold pipings	4: Four Joints	10: 10" (254 mm)	F: Propane
	N: Check valve	S: Single joint manifold pipings	5: Five Joints	13: 13" (330 mm)	C: Carbon Dioxide
	, (D: Dual joints manifold pipings	·	18: 18" (457 mm) (Does not apply to "C" Piping Shape.)	IN: Argon, Nitrogen, Helium
		Q: Quad joints manifold pipings			Q: Air

Example: GHER-210X indicates a right-hand oxygen manifold piping system with 2 joints, and 10" joint distance.

Header Extensions



Model Number	Length	Inlet Connection	Outlet Connection	Description	
GEE-4	4-1/2"	1"-11-1/2NPS-RH (M)	1"-11-1/2NPS-RH (F)	, (J	
GEE-8	8-1/3"	1"-11-1/2NPS-RH (M)	1"-11-1/2NPS-RH (F)	Elbow	
GEE-11	11-1/3"	1"-11-1/2NPS-RH (M)	1"-11-1/2NPS-RH (F)		
GET-9X	8-2/3"	1"-11-1/2NPS-RH (F)	1"-11-1/2NPS-RH (F)	"T" shape	
GCC-4	4"	1"-11-1/2NPS-RH (F)	1"-11-1/2NPS-RH (F)	Eutonoian	
GCC-4L	4"	1"-11-1/2NPS-RH (F)	1"-11-1/2NPS-LH (F)	Extension	

Valves & Accessories, Manifold Components

Valves & Accessories



GMV-81



GMV-180



H900G





B-BV312-NT8



Manifold Components

- Machined with class "A" brass stock Maximum working pressure: 3000 psi
- D: 22.5mm, ID: 11.5mm



	Model Number	Inlet / Outlet Connection	Gas Service	Description
	GMV-81	1"-11-1/2NPS	*All Gas	Master Valve, Work Pressure: 4500 psi
	GMV-180	1"-11-1/2NPS	*All Gas	Master Valve, Work Pressure: 2800 psi
	GMV-90X	CGA540 / 1/2" NPT	O2, CO2, Air, Ar, He, N2	
	GMV-90F	CGA510 / 1/2" NPT	C2H2, C3H8, H2	Header valve
Ĭ	GMV-91X	1/2" NPT / G5/8-RH	O_2 , CO_2 , Air, Ar, He, N_2	In line Check Value
	GMV-91F	1/2" NPT / G5/8-LH	C2H2, C3H8, H2	
	B-RV95-T350-NT4	1/4"NPT	*All Gas	Relief Valve, Set Pressure: 350 psi
	B-RV95-T280-NT4	1/4"NPT	*All Gas	Relief Valve, Set Pressure: 280 psi
	B-RV95-T150-NT4	1/4"NPT	*All Gas	Relief Valve, Set Pressure: 150 psi
/	B-RV95-F80-NT4	1/4"NPT	*All Gas	Relief Valve, Set Pressure: 80 psi
	B-BV312-NT8	1/4"NPT	*All Gas	3-Way Ball Valve, Work Pressure: 450 psi
	H900G	1" -11-1/2 NPS RH	CO ₂	Heater, 110V or 220V Work Pressure: 2200 psi

*All gases = non-corrosive gases

Model Number	Description				
R155-103	1/2"NPT				
R155-103A	1/4"NPT				
R155-103B	19mm weld tube				
R155-111	Adaptor, 1/4"NPT(M) / 1"-11-1/2NPS-RH(M)				
R155-111A	Adaptor, 1/4"NPT(M) / 1"-11-1/2NPS-LH(M)				
R155-110	Adaptor, 1/2"NPT(M) / 1"-11-1/2NPS-RH(M)				
GHER-210-02	Retaining Nut, 27/32"-20UNS(F)				
GCC-A	Adaptor, 3/4"NPT(M) / 1"-11-1/2NPS-RH(M)				
GCC-C	Adaptor, 3/4"NPT(M) / 1"-11-1/2NPS-LH(M)				
GCC-B	Adaptor, 3/4"NPT(M) / 3/4"NPT(M)				
GCC-D	Adaptor, 3/4"NPT(M) / 1/2"NPT(M)				
EN-100A	Plug				
GHFN-X	Nut, 1"-11-1/2NPS-RH(F)				

Length	1/2" NPT	1/2"
1-1/2" (38mm)	GHBP-1A	<u>.</u>
2" (51mm)	GHBP-2A	GHBP-2C
4" (102mm)	GHBP-4A	GHBP-4C
6" (152mm)	GHBP-6A	GHBP-6C
8-1/2" (216mm)	GHBP-8A	GHBP-8C
11-1/2" (292mm)	GHBP-11A	GHBP-11C
6' (1829mm)	-0	GHBP-180C
12' (3658mm)		GHBP-360C

Solutions for Life

Manifold Fittings

• Machined with class "A" brass stock Maximum working pressure: 3000 psi

Three-way Connector



Model Number	Α	в	C	E	Figure
GHFT-1A	1/2" NPT	1/2" NPT	1/2" NPT	2-1/2"	1
GHFT-1B	0.873-0.886	0.873-0.886	1/2" NPT	2-1/2"	2
GHFT-1C	1/2" NPT	1/2" NPT	0.873-0.886	2-1/2"	3
GHFT-1D	0.873-0.886	1/2" NPT	1/2" NPT	2-1/2"	4
GHFT-1E	0.873-0.886	0.873-0.886	0.873-0.886	2-1/2"	5

Four-way Connector







Figure 1



Model Number	Α	В	С	D	E	Figure
GHFC-1A	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT	2-3/4"	1
GHFC-1B	0.873-0.886	0.873-0.886	1/2" NPT	1/2" NPT	2-3/4"	2

Elbow Connector









Model Number	A	В	E	Figure
GHFE-1A	1/2" NPT	1/2" NPT	1-1/4"	1
GHFE-1B	1/2" NPT	0.873-0.886	1-1/4"	2
GHFE-1C	0.873-0.886	0.873-0.886	1-1/4"	3

Pigtails, Wall Mounts, Pipe Holders and Pipe Supports



				(10)		mended
GPF:	24:24" (610 mm)	Blank: Without	C320: CGA320 (CO2)	510:CGA 510	Strong oxidizing	High Pressure
Flexible pigtail	36:36" (914 mm)	check valve	C326: CGA 326 (N2O)	(Fuel Gas)	Strong corrosive	Medical Oxygen*
(Teflon-lined)	59:59" (1500 mm)		C346: CGA 346 (Air)	540:CGA 540	gas	
	79:79" (2000 mm)	CVO: Check valve	C350: CGA 350 (C2H2)	(Inert Gas)		
		at manifold	C510: CGA 510	6	20	
	G	header side	(C2H2, Low Pressure)			
		.6 .4	C540: CGA 540 (O2)			6
GPS:		CVI: Check valve	C580: CGA 580 (Inert Gas)		Fuel gas	High Pressure
Stainless steel		at cylinder	BS02: BS341 No 2 (C2H2)		Non fuel gas	Oxygen**
flexible pigtail	S G	valve side	BS03: BS341 No 3			
(316SST)		6 .0	(Air, O2, N2, Inert Gas)			
pigtail(316SST)	<i>.</i>	FA: With flashback	BS04: BS341 No 4 (H2,CH4)			
pigtail(316SST)		arrestor	BS08: BS341 No 8 (CO2)			6
		Gv Gv	BS13: BS341 No 13 (N2O)	<u>(</u> ,		
			DN1: DIN 477 No 1			
GPR:	6.		(H2, C2H6, C2H4, Fuel Gas)		Oxygen	Acetylene
Copper rigid			DN3: DIN 477 No 3 (C2H2)			
pigtail			DN6 : DIN 477 No 6		6.	
			(Ar, CO2, Inert Gas)			
		0. 0	DN8: DIN 477 No 8 (N2O)			
			DN10: DIN 477 No 10 (N2)			Y

* According to HTM, high pressure medical oxygen is not compatible with Teflon lining pigtail. ** High pressure oxygen should not be used with stainless steel pigtail according to relevant standards.

Cylinder Wall Mounts, Pipe Holders and Pipe Supports

GMB-7



GMB-1







GMB-9B

Model Number	Description
GMB-1	Single Cylinder Wall Mount, OD. 9" (229 mm)
GMB-2	Single Cylinder Wall Mount, OD. 14" (356 mm)
GMB-3	Dual Cylinder Wall Mount, OD. 9" (229 mm)
GMB-4	Dual Cylinder Wall Mount, OD. 14" (356 mm)
GMB-7	Mounting Bracket
GMB-9B	Header Support
CB-2	Single Cylinder Wall Bracket with strap

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36.

Flashback Arrestors & Pressure Switches & Pressure Transmitter

In-line Low Pressure Flashback Arrestors

Designed for use on Acetylene or Fuel Gas Manifold Systems with low pressure piping system to protect the main gas supply from the dangers of reverse flow and flashbacks by stainless steel sintered elements and check valves.

Model Number	Gas Sercive	Working Pressure psi (bar)	Delivery Flow (SCFH)	Inlet / Outlet Connection
FA30PF	Acetylene, Propane, LPG	22 (1.5)	2450	3/4" NPT(F) / 3/4" NPT(F)
FA30PO	Oxygen	145 (10)	5800	3/4" NPT(F) / 3/4" NPT(F)
FA33SP	Hydrogen	50 (3.4)	1250	1/4" NPT(F) / 1/4" NPT(M)
, si	Hydrogen	145 (10)	4100	3/8" NPT(F) / 3/8" NPT(F)
HFA43SP	Acetylene, Propane	115 (8)	900	3/8" NPT(F) / 3/8" NPT(F)



Pressure Switches

Pressure switchs are designed for gas manifold systems to activate remote alarm systems. Operates when cylinder/line pressure is below minimum pressure setting.

Model Number	Pressure Range psi (bar)	Max.Inlet Pressure psi (bar)	Pressure Connection
GHPS-1	5~50 (0.35~3.5)	440 (30)	1/8" NPT
GHPS-2	30~600 (2.1~41.5)	2200 (152)	1/8" NPT
GHPS-3	100~1500 (6.9~103)	2200 (152)	1/4" NPT
GHPS-4E	0.01~0.07 (1.5~10)	4.14 (600)	1/4" NPT (F)
GHPS-5E	0.1~0.52 (15~75)	4.14 (600)	1/4" NPT (F)
GHPS-6E	0.35~3.1 (51~450)	13.79 (2000)	1/4" NPT (F)

Pressure Transmitter

GHPS-4E

Explosion-Proof

Model Number	Parameter
5310-B-36CP	High Pressure: 0~3600 psi, Threaded Connection: 1/4-18NPT, Electrical Connection: Din 9.4 mm, Output: 4~20mA
5310-B-300P2	Low Pressure: 0~300 psi, Threaded Connection: 1/4-18NPT, Electrical Connection: Din 9.4 mm, Output: 4~20mA

GHPS-1

Regular



Gas Filter, Filter Elements, Alarm Systems, Gas Heater & Remote Alarm Panels

Solutions for Life

Gas Filter

The gas filter is used in high pressure pipeline system to effectively eliminate the dust in the gas. Its main body is made of high quality brass and its unique structure facilitates the replacement of the filter screen.



Model Number	Gas Service	Max.Inlet Pressure psi (bar)	Inlet Connection	Outlet Connection
GF40HP	All Gases (Except Oxygen)	3000 (207)	1"-11-1/2NPS RH (F)	1"-11-1/2NPS RH (M)
GF40HPO	Oxygen	3000 (207)	1"-11-1/2NPS RH (F)	1"-11-1/2NPS RH (M)

All gases = non-corrosive gases

Filter Elements



Model Number	Gas Service	Description
CF30P-03A	Oxygen	Sintered Brass, Filtration precision: 100 µm
CF30P-03	All Gases (Except Oxygen)	Sintered Stainless Steel, Filtration precision:30 µm

Gas Alarm Panel

GAP-02-DC24 gas alarm panel is designed to simultaneously monitor two gas supply systems. When the pressure is lower than set pressure, light-indicated and audible alarm will be triggered to inform operator to check.

- Two-input dry contact signal (electronic contact gauge or pressure switch)
- Aluminum alloy cover with compact design of 88 x 38 x 120mm
- Extra safety with external DC24V adapter power supply
- Sound and light alarm indication, adjustable alarm sound
- The audible alarm can be muted by the silence button
- When one alarm signal is alarmed and muted, the activation of the other alarm signal will not be hindered
- Built-in PCB board plug-in blocks to facilitate input and output signal lines connection
- Optional strobe light for distance sound and light alarm



GAP-02-DC24

GM100M Series LCD Alarm Systems



- 10" (25.2cm) Touch Screen Display with Password protected interface
- Provides master, area, and combination alarm signals as required by the latest edition of NFPA99
- The alarm is ETL listed to UL 1069 and CSA C22.2 No. 205 Signal Equipment
- Full networking capabilities including Modbus RTU/TCP, UDP protocols
- A Trend Log to view the pressure trends and forecast if maintenance or additional support is required
- An Event Log allows for a view history of time-stamped alarm events
- · On-site customization without the use of a laptop, tablet, or mobile device

Gas Terminal Box, Station Drops, Terminal Gas Control Panel

Solutions for Life

Gas Terminal Box

GSOB & GSOL Series Gas Terminals are designed for gas delivery workstations. GSOB (Box) and GSOL series (Line piping) consist of 3 types of gas outlets within a casing: direct, regulator, and flowmeter outlet. (Inlet Connection: 1/2" union).

Model Number	Gas Service	NO. of Outlet	Outlet Connection	Description
GSOB-3X	Oxygen	3	M16 X 1.5-RH (M)	Direct Type
GSOB-3Y	Atylene	3	M16 X 1.5-LH (M)	Direct Type, with Flashback Arrestor
GSOB-3F	Propane, LPG	3	M16 X 1.5-LH (M)	Direct Type, with Flashback Arrestor
GSOB-3C	Carbon Dioxide	3	M16 X 1.5-RH (M)	Direct Type
GSOB-3IN	Argon	3	M16 X 1.5-RH (M)	Direct Type
GSOB-3RX	Oxygen	3	M16 X 1.5-RH (M)	Regulator Type
GSOB-3RY	Atylene	3	M16 X 1.5-LH (M)	Regulator Type, with Flashback Arrestor
GSOB-3RF	Propane, LPG	3	M16 X 1.5-LH (M)	Regulator Type, with Flashback Arrestor
GSOB-2RX	Oxygen	2	M16 X 1.5-RH (M)	Regulator Type
GSOB-2RY	Atylene	2	M16 X 1.5-LH (M)	Regulator Type, with Flashback Arrestor
GSOB-2RF	Propane, LPG	2	M16 X 1.5-LH (M)	Regulator Type, with Flashback Arrestor
GSOB-1RX	Oxygen	1	M16 X 1.5-RH (M)	Regulator Type
GSOB-1RY	Atylene	1	M16 X 1.5-LH (M)	Regulator Type, with Flashback Arrestor
GSOB-1RF	Propane, LPG	1	M16 X 1.5-LH (M)	Regulator Type, with Flashback Arrestor
GSOB-3FC	Carbon Dioxide	3	M16 X 1.5-RH (M)	Flowmeter Type
GSOB-3FIN	Argon	3	M16 X 1.5-RH (M)	Flowmeter Type
GSOB-2FC	Carbon Dioxide	2	M16 X 1.5-RH (M)	Flowmeter Type
GSOB-2FIN	Argon	2	M16 X 1.5-RH (M)	Flowmeter Type
GSOB-1FC	Carbon Dioxide	1	M16 X 1.5-RH (M)	Flowmeter Type
GSOB-1FIN	Argon	1	M16 X 1.5-RH (M)	Flowmeter Type



GSOB-3FC (Box)



GSOB-3RF (Box)

Station Drops



GSOL-2X-R (Line Piping)

Model Number	Gas Service	NO. of Outlet	Outlet Connection
GSOL-1X-R	Argon, Carbon Dioxide, Oxygen	1	G5/8"-14RH (M)
GSOL-2X-R	Argon, Carbon Dioxide, Oxygen	2	G5/8"-14RH (M)
GSOL-1X-H	Argon, Carbon Dioxide, Oxygen	1	M16 X 1.5-RH (M)
GSOL-1F-R	Acetylene, Propane	1	G5/8"-14RH (M)
GSOL-4F-R	Acetylene, Propane	4	G5/8"-14RH (M)
GSOL-2F-H	Acetylene, Propane	2	M16 X 1.5-LH (M)
GSOL-4F-H	Acetylene, Propane	4	M16 X 1.5-LH (M)

Terminal Gas Control Panel

Model Number	Gas Service	Max.Inlet Pressure psi (bar)	Delivery PRESSURE psi (bar)	Inlet Connection	Outlet Connection
P1520F	Propane	400 (25)	0~40 (2.5)	BSP 1/4"	1/4" Hose Nipple
P1520X	Oxygen	400 (25)	0~125 (8.5)	BSP 1/4"	1/4" Hose Nipple
P1520Y	Acetylene	400 (25)	0~15 (1)	BSP 1/4"	1/4" Hose Nipple
P1520IN	Ar, He, N ₂	400 (25)	0~125 (8.5)	BSP 1/4"	1/4" Hose Nipple



Flashback Arrestors, Quick Connectors & Flowmeters

Regulator Flashback Arrestors

Designed for mounting on the regulator outlet. Internal stainless steel sintered elements and check valves are constructed to provide protection from flashbacks.



Model Number	Gas Service	Working Pressure psi (bar)	Inlet Connection	Outlet Connection
FA9RF	Acetylene, Propane, LPG	22 (1.5)	9/16-18LH (F)	9/16-18LH (M)
FA9RO	Oxygen	145 (10)	9/16-18RH (F)	9/16-18RH (M)

Quick Connectors with Check Valve

Designed with a check valve to provide protection from flashbacks during gas cutting processes. The quick-opening valve at the end of the connector facilitates the connections.



Model Number	Gas Service	Working Pressure psi (bar)	Inlet Connection	Outlet Connection
RH36X	Oxygen	145 (10)	9/16-18RH (F)	9/16-18RH (F)
RH36F	Fuel Gas	30 (2)	9/16-18LH (F)	9/16-18LH (F)
RH39X	Oxygen	145 (10)	9/16-18RH (F)	5/16" Hose Nipple
RH39F	Fuel Gas	30 (2)	9/16-18LH (F)	5/16" Nipple

Flowmeters (Suitable for use on Piping Systems)

		Series	Model Number	Gas Service	Delivery Flow (SCFH)	Mx. Inlet Pressure psi (bar)	Inlet Connection	Outlet Connection
			191FM-25L	Carbon Dioxide	0-55	50 (3.5)	1/4" NPT (M)	9/16-18RH (M)
E		G	191FM-25L	Argon	0-55	50 (3.5)	1/4" NPT (M)	9/16-18RH (M)
			191FM-25L	Helium	0-170	50 (3.5)	1/4" NPT (M)	9/16-18RH (M)
E			191FM-50L	Carbon Dioxide	0-105	50 (3.5)	1/4" NPT (M)	9/16-18RH (M)
	a h	191FM SERIES	191FM-50L	Argon	0-105	50 (3.5)	1/4" NPT (M)	9/16-18RH (M)
TTL-			191FM-50L	Helium	0-240	50 (3.5)	1/4" NPT (M)	9/16-18RH (M)
		1	191FM-30L	Nitrogen	0-65	50 (3.5)	1/4" NPT (M)	9/16-18RH (M)
A			191FM-30L	Air	0-65	50 (3.5)	1/4" NPT (M)	9/16-18RH (M)
1º			191FM-100L	Hydrogen	0-210	50 (3.5)	1/4" NPT (M)	9/16-18LH (M)
	-		191FM-25L-F	Carbon Dioxide	0-55	50 (3.5)	9/16-18RH (F)	9/16-18RH (M)
191FM-25L			191FM-25L-F	Argon	0-55	50 (3.5)	9/16-18RH (F)	9/16-18RH (M)
			191FM-25L-F	Helium	0-170	50 (3.5)	9/16-18RH (F)	9/16-18RH (M)
	ð		191FM-50L-F	Carbon Dioxide	0-105	50 (3.5)	9/16-18RH (F)	9/16-18RH (M)
		191FM-F	191FM-50L-F	Argon	0-105	50 (3.5)	9/16-18RH (F)	9/16-18RH (M)
	C III	SERIES	191FM-50L-F	Helium	0-340	50 (3.5)	9/16-18RH (F)	9/16-18RH (M)
	191FM-25L-F		191FM-30L-F	Nitrogen	0-65	50 (3.5)	9/16-18RH (F)	9/16-18RH (M)
			191FM-30L-F	Air	0-65	50 (3.5)	9/16-18RH (F)	9/16-18RH (M)
			191FM-100L-F	Hydrogen	0-210	50 (3.5)	9/16-18RH (F)	9/16-18LH (M)

Manifold Regulators

155CG, 155M, 155TM, 153M Series Manifold Regulators



155CG







153M

Series	Model Number	Gas Service	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Inlet Connection	Outlet Connection
155CG series	155CG-125-220		2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
electric heating	155CG-200-220	CO2	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
Gr	155MX-125-A		2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
	155MX-200-A	O ₂	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
	155MY-15-A	C_2H_2	435 (30)	1.5~14.5 (0.1~1)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
155M-A series	155MF-40-A	C ₃ H ₈ , LPG	435 (30)	1.5~40 (0.1~2.8)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
(ultra high flow	155MIN-125-A	. /	2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
system)	155MIN-200-A	Ar, He, N ₂	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
single-stage	155MQ-125-A		2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
18 6	155MQ-200-A	- Air G	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
Gr C	155MH-200-A	H ₂	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
.0.	155MC-125-A	CO2	2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
	155MC-200-A		2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
6 G	155TMX-125-A	O ₂	2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
>	155TMX-200-A		2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
155TM-A series	155TMY-15-A	C ₂ H ₂	435 (30)	1.5~14.5 (0.1~1)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
(ultra high flow	155TMF-40-A	C₃H₅, LPG	435 (30)	1.5~40 (0.1~2.8)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
system)	155TMIN-125-A	Ar, He, N2	2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
dual-stage	155TMIN-200-A		2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
	155TMC-125-A	CO2	2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
	155TMC-200-A		2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
S GY	153MX-125-A	-	2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
	153MX-200-A	O ₂	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
	153MY-15-A	C2H2	435 (30)	1.5~14.5 (0.1~1)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
	153MF-40-A	C3H8, LPG	435 (30)	1.5~40 (0.1~2.8)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
153M-A series	153MF-125-A	LPG	435 (30)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
(ultra high flow	153MIN-125-A	A	2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
system)	153MIN-200-A	Ar, He, N ₂	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
single-stage	153MQ-125-A	G	2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
G.	153MQ-200-A	Air	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)
C. 19	153MH-15-A		2200 (150)	1.5~14.5 (0.1~1)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
	153MH-200-A	H ₂	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
	153MC-125-A	0	2200 (150)	4.4~120 (0.3~8.5)	1"-11-1/2"NPS LH (M)	1"-11-1/2"NPS LH (F)
0	153MC-200-A	CO2	2200 (150)	10~200 (0.7~14)	1"-11-1/2"NPS RH (M)	1"-11-1/2"NPS RH (F)

Manifold Regulators

591, LC853, 155HF Series Manifold Regulators





				001	8 10011	
Series	Model Number	Gas Service	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Inlet Connection	Outlet Connection
GENTE	591X-750		2900 (200)	4.4~125 (0.3~8.5)	G5/8"-RH (F)	Ф6
	591X-1500	X GV	2900 (200)	102~145 (7~10)	G5/8"-RH (F)	Ф6
	591X-3000	O2	2900 (200)	200~2900 (14~200)	G5/8"-RH (F)	Ф6
	591X-3000-577		3600 (250)	200~2900 (14~200)	CGA577	Ф6
	591X-4500-701		3600 (250)	300~4350 (21~300)	CGA701	Ф6
	591IN-1500	6	2900 (200)	100~145 (7~10)	G5/8"-RH (F)	Ф6
591 series	591IN-3000	Ar, He, N ₂	3600 (250)	200~2900 (14~200)	G5/8"-RH (F)	Ф6
(suitable for high outlet pressure)	591IN-4500-667		5100 (350)	300~4350 (21~300)	CGA667	Ф6
	591Q-1500	Air	2900 (200)	100~145 (7~10)	G5/8"-RH (F)	Ф6
	591Q-3000		2900 (200)	200~2900 (14~200)	G5/8"-RH (F)	Ф6
	591Q-4500-680		5100 (350)	300~4350 (21~300)	CGA680	Ф6
	591H-750		2900 (200)	50~725 (3.5~50)	W21.8-14LH	Ф6
	591H-1500	H ₂	2900 (200)	100~145 (7~10)	W21.8-14LH	Ф6
	591H-3000	G	2900 (200)	200~2900 (14~200)	W21.8-14LH	Ф6
LC853 series	LC853X-125	O ₂	500 (35)	4.4~120 (0.3~8.5)	G3/4"-RH (F)	G3/4"-RH (F)
(suitable for liquid	LC853C-125	CO ₂	500 (35)	4.4~120 (0.3~8.5)	G3/4"-RH (F)	G3/4"-RH (F)
vessels)	LC853IN-125	Ar, N ₂	500 (35)	4.4~120 (0.3~8.5)	G3/4"-RH (F)	G3/4"-RH (F)
155HF series	155HFX-800	O ₂	2200 (150)	50~800 (3.5~55)	G5/8"-RH (F)	M22-1.5RH (M)
(suitable for high pressure and flow)	155HFIN-800	Ar, He, N ₂	2200 (150)	50~800 (3.5~55)	G5/8"-RH (F)	M22-1.5RH (M)

R66B Series Manifold Regulators

• suitable for low pressure and high flow, see details in the table below.





R66B	J	в	- F	н	P	- 00	- 00
Series	Body Ports	Seat	Inlet Pressure	Outlet Pressure	Pressure Gauge	Inlet Connection	Outlet Connection
R66B (Brass)	A B G	B: Nitrile Rubber	F: 0~500 psi	G: 0~250 psi H: 0~1250 psi I: 0~100 psi	W: Without pressure gauge P: with psi/bar gauge G: with Mpa gauge	06: 3/4" NPT (F) 08: 1" NPT (F)	06: 3/4" NPT (F) 08: 1" NPT (F)
	J	CEN (K: 0~50 psi L: 0~25 psi		Other types of connectors are available.	Other types of connectors are available.

Station & Line Regulators

155L, 152L, 853L, 210SR, 152S, 853SR Series Station & Line Regulators

- Station & Line regulators should not be used with cylinders.
- 152L, 155L, 853L series regulators can adopt M16*1.5 inlet and outlet thread connections.
- *: Adjusting T-bar can be replaced by adjusting knob for all regulators listed above







152L (T-Bar)







Series	Model Number	Gas Service	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Inlet Connection	Outlet Connection
2. 2.	155LX-80	G	360 (25)	2.9~80 (0.2~5.6)	3/4" NPT (F)	3/4" NPT (F)
	155LX-125	O2	360 (25)	4.4~120 (0.3~8.5)	3/4" NPT (F)	3/4" NPT (F)
	155LX-200		360 (25)	10~200 (0.7~14)	3/4" NPT (F)	3/4" NPT (F)
	155LY-15	C ₂ H ₂	360 (25)	1.5~14.5 (0.1~1)	3/4" NPT (F)	3/4" NPT (F)
	155LF-125	C ₃ H ₈ , LPG	360 (25)	4.4~120 (0.3~8.5)	3/4" NPT (F)	3/4" NPT (F)
155L series	155LIN-80	Y	360 (25)	2.9~80 (0.2~5.6)	3/4" NPT (F)	3/4" NPT (F)
high flow gas	155LIN-125	Ar, He, N ₂	360 (25)	4.4~120 (0.3~8.5)	3/4" NPT (F)	3/4" NPT (F)
distribution system)	155LIN-200		360 (25)	10~200 (0.7~14)	3/4" NPT (F)	3/4" NPT (F)
	155LQ-80	A .	360 (25)	2.9~80 (0.2~5.6)	3/4" NPT (F)	3/4" NPT (F)
	155LQ-125	Air	360 (25)	4.4~120 (0.3~8.5)	3/4" NPT (F)	3/4" NPT (F)
	155LQ-200		360 (25)	10~200 (0.7~14)	3/4" NPT (F)	3/4" NPT (F)
	155LH-125	H ₂	360 (25)	4.4~120 (0.3~8.5)	3/4" NPT (F)	3/4" NPT (F)
	155LC-125	CO ₂	360 (25)	4.4~120 (0.3~8.5)	3/4" NPT (F)	3/4" NPT (F)
	152LX-125	O ₂	360 (25)	4.4~120 (0.3~8.5)	1/4" NPT (F)	1/4" NPT (F)
	152LY-15	C ₂ H ₂	360 (25)	1.5~14.5 (0.1~1)	1/4" NPT (F)	1/4" NPT (F)
52L series	152LF-80	C ₃ H ₈ , LPG	360 (25)	2.9~80 (0.2~5.6)	1/4" NPT (F)	1/4" NPT (F)
low flow gas	152LIN-125	Ar, He, N ₂	360 (25)	4.4~120 (0.3~8.5)	1/4" NPT (F)	1/4" NPT (F)
listribution system)	152LQ-125	Air	360 (25)	4.4~120 (0.3~8.5)	0 1/4" NPT (F)	1/4" NPT (F)
	152LH-80	H ₂	360 (25)	2.9~80 (0.2~5.6)	1/4" NPT (F)	1/4" NPT (F)
	152LC-125	CO ₂	360 (25)	4.4~120 (0.3~8.5)	1/4" NPT (F)	1/4" NPT (F)
	853LX-125	O ₂	360 (25)	4.4~120 (0.3~8.5)	1/4" NPT (F)	1/4" NPT (F)
	853LY-15	C ₂ H ₂	360 (25)	1.5~14.5 (0.1~1)	1/4" NPT (F)	1/4" NPT (F)
	853LF-80		360 (25)	2.9~80 (0.2~5.6)	1/4" NPT (F)	1/4" NPT (F)
353L series	853LF-125	C3H8, LPG	360 (25)	4.4~120 (0.3~8.5)	1/4" NPT (F)	1/4" NPT (F)
Moderate flow gas	853LIN-125	Ar, He, N ₂	360 (25)	4.4~120 (0.3~8.5)	1/4" NPT (F)	1/4" NPT (F)
listribution system)	853LQ-125	Air	360 (25)	4.4~120 (0.3~8.5)	1/4" NPT (F)	1/4" NPT (F)
	853LH-80		360 (25)	2.9~80 (0.2~5.6)	1/4" NPT (F)	1/4" NPT (F)
	853LH-125	Π2	360 (25)	4.4~120 (0.3~8.5)	1/4" NPT (F)	1/4" NPT (F)
	853LC-125	CO ₂	360 (25)	4.4~120 (0.3~8.5)	1/4" NPT (F)	1/4" NPT (F)

Station & Line Regulators

210SR, 152S, 853SR Series Station & Line Regulators



210SR





Series	Model Number	Gas Service	Max. Inlet Pressure psi (bar)	Delivery Pressure psi (bar)	Inlet Connection	Outlet Connection
	210SRX-80		200 (14)	2.9~80 (0.2~5.6)	M16-1.5RH (F)	M16-1.5RH (M)
	210SRX-125	O ₂	200 (14)	4.4~120 (0.3~8.5)	M16-1.5RH (F)	M16-1.5RH (M)
	210SRY-15	C ₂ H ₂	200 (14)	1.5~14.5 (0.1~1)	M16-1.5LH (F)	M16-1.5LH (M)
210SR series	210SRF-15	C₃H₀, LPG	200 (14)	1.5~14.5 (0.1~1)	M16-1.5LH (F)	M16-1.5LH (M)
llow flow noo	210SRIN-80		200 (14)	2.9~80 (0.2~5.6)	M16-1.5RH (F)	M16-1.5RH (M)
low now gas	210SRIN-125	Ar, He, N ₂	200 (14)	4.4~120 (0.3~8.5)	M16-1.5RH (F)	M16-1.5RH (M)
distribution system)	210SRQ-80		200 (14)	2.9~80 (0.2~5.6)	M16-1.5RH (F)	M16-1.5RH (M)
Rear input structure	210SRQ-125	Air	200 (14)	4.4~120 (0.3~8.5)	M16-1.5RH (F)	M16-1.5RH (M)
	210SRH-80		200 (14)	2.9~80 (0.2~5.6)	M16-1.5LH (F)	M16-1.5LH (M)
	210SRH-125	H ₂	200 (14)	4.4~120 (0.3~8.5)	M16-1.5LH (F)	M16-1.5LH (M)
	210SRC-125	CO ₂	200 (14)	4.4~120 (0.3~8.5)	M16-1.5RH (F)	M16-1.5RH (M)
	152SX-40	2	200 (14)	1.5~14.5 (0.1~1)	G5/8"-RH (F)	M16-1.5RH (M)
	152SX-80	O2	200 (14)	2.9~80 (0.2~5.6)	G5/8"-RH (F)	M16-1.5RH (M)
	152SX-125		200 (14)	4.4~120 (0.3~8.5)	G5/8"-RH (F)	M16-1.5RH (M)
	152SY-15	C ₂ H ₂	200 (14)	1.5~14.5 (0.1~1)	G5/8"-LH (F)	M16-1.5LH (M)
	152SF-80	0.11.1.00	200 (14)	2.9~80 (0.2~5.6)	G5/8"-LH (F)	M16-1.5LH (M)
	152SF-125	C ₃ H ₈ , LPG	200 (14)	4.4~120 (0.3~8.5)	G5/8"-LH (F)	M16-1.5LH (M)
152S series	152SIN-40	6	200 (14)	1.5~14.5 (0.1~1)	G5/8"-RH (F)	M16-1.5RH (M)
Moderate and high flow	152SIN-80	Ar, He, N ₂	200 (14)	2.9~80 (0.2~5.6)	G5/8"-RH (F)	M16-1.5RH (M)
as distribution system)	152SIN-125		200 (14)	4.4~120 (0.3~8.5)	G5/8"-RH (F)	M16-1.5RH (M)
	152SQ-40	Air	200 (14)	1.5~14.5 (0.1~1)	G5/8"-RH (F)	M16-1.5RH (M)
	152SH-80	H2	200 (14)	2.9~80 (0.2~5.6)	G5/8"-LH (F)	M16-1.5LH (M)
	152SH-125		200 (14)	4.4~120 (0.3~8.5)	G5/8"-LH (F)	M16-1.5LH (M)
	152SC-40		200 (14)	1.5~14.5 (0.1~1)	G5/8"-RH (F)	M16-1.5RH (M)
	152SC-80	CO2	200 (14)	2.9~80 (0.2~5.6)	G5/8"-RH (F)	M16-1.5RH (M)
	152SC-125		200 (14)	4.4~120 (0.3~8.5)	G5/8"-RH (F)	M16-1.5RH (M)
	853SRX-80		200 (14)	2.9~80 (0.2~5.6)	G5/8"-RH (F)	M16-1.5RH (M)
	853SRX-125	02	200 (14)	4.4~120 (0.3~8.5)	G5/8"-RH (F)	M16-1.5RH (M)
	853SRY-15	C2H2	200 (14)	1.5~14.5 (0.1~1)	G5/8"-LH (F)	M16-1.5LH (M)
	853SRF-80		200 (14)	2.9~80 (0.2~5.6)	G5/8"-LH (F)	M16-1.5LH (M)
	853SRF-125	C3H8, LPG	200 (14)	4.4~120 (0.3~8.5)	G5/8"-LH (F)	M16-1.5LH (M)
·	853SRIN-40	X V	200 (14)	1.5~14.5 (0.1~1)	G5/8"-RH (F)	M16-1.5RH (M)
353SR series	853SRIN-80	Ar, He, N ₂	200 (14)	2.9~80 (0.2~5.6)	G5/8"-RH (F)	M16-1.5RH (M)
high flow gas	853SRIN-125		200 (14)	4.4~120 (0.3~8.5)	G5/8"-RH (F)	M16-1.5RH (M)
distribution system)	853SRQ-40		200 (14)	1.5~14.5 (0.1~1)	G5/8"-RH (F)	M16-1.5RH (M)
Rear input structure	853SRQ-80	Air	200 (14)	2.9~80 (0.2~5.6)	G5/8"-RH (F)	M16-1.5RH (M)
	853SRQ-125		200 (14)	4.4~120 (0.3~8.5)	G5/8"-RH (F)	M16-1.5RH (M)
	853SRH-80		200 (14)	2.9~80 (0.2~5.6)	G5/8"-LH (F)	M16-1.5LH (M)
	853SRH-125	1 12	200 (14)	4.4~120 (0.3~8.5)	G5/8"-LH (F)	M16-1.5LH (M)
	853SRC-40		200 (14)	1.5~14.5 (0.1~1)	G5/8"-RH (F)	M16-1.5RH (M)
	853SRC-80	CO ₂	200 (14)	2.9~80 (0.2~5.6)	G5/8"-RH (F)	M16-1.5RH (M)
	853SRC-125		200 (14)	4.4~120 (0.3~8.5)	G5/8"-RH (F)	M16-1.5RH (M)

Any **GENTEC**[®] apparatus found to be defective either in material or workmanship during the time set forth below will be replaced by Genstar Technologies Company, Incorporated or its Authorized Distributors, provided that said apparatus was used under normal conditions for the purpose intended.

Limited Warranty Period: The warranty period is as shown below, from the date of original purchase.

Product Type	Warranty from the Date of Original Purchase				
Gas Manifold Systems	2 years				
Pigtails	90 days				

GENTEC[®] apparatus damaged or rendered inoperative due to abuse, negligence, misuse, accident or abnormal wear and tear is not covered by this warranty and must be repaired at the sole expense of the equipment owner. **GENTEC**[®] apparatus should be serviced or repaired by Genstar Technologies Company, Incorporated or designated service facilities only. Service or repair of this apparatus by other than Genstar Technologies Company, Incorporated or designated or designated service facilities may void any warranties and relieve Genstar Technologies Company, Incorporated of any claims for

damage and/or liability.

To make a claim under this warranty, Buyer must notify Genstar Technologies Company, Incorporated or its Authorized Distributor of the details of such claim within 30 days of discovering a defect in material or workmanship along with proof of purchase. The Buyer will be responsible for transportation costs and related risks.

Genstar Technologies Company, Incorporated shall not, under any circumstances, be liable for any damages including but not limited to: indirect, incidental, consequential, or special damages, whether such damages result from negligence, breach of warranty or otherwise.

There are no other warranties, expressed or implied, except as stated herein. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Genstar Technologies Company, Incorporated reserves the right to discontinue manufacturing of any product or change product materials, design or specifications without notice.

CRYOGENIC VESSEL

What you need to know?

- □ Vaporization Rate: Typically 250 to 350 SCFH.
- Outlet Pressure: Typically 125 psi, 300 psi Models are also available.
- Evaporization Rate: Up to 3% per day will vent to atmosphere.
- Temperature: Vaporizing gas is very cold. Approximately -300° Fahrenheit.
- Warning: Multiple liquid cylinder manifolds MUST have the pressure building regulator of

each vessel set at the same pressure to insure proper cylinder withdrawal.

HOW MANY CYLINDERS DO I NEED?

Example of argon mix manifold system at a mig welding shop:

□ For a 250 CF cylinder, automatic changeover uses 230 CF and leaves 20CF in the cylinder. Manual changeover uses 250CF.

(28 CFH/Station) x 6.5 Hours/Day x 50% Duty Cycle = 91.0 CF/Day/Station □ 91.0 CF/Day/Station x 8 Welding Stations - 728 CF/Day

728 CF/Day

= 3.16 Cylinders/Day

230 CF/Cylinder

12 Cylinders per Header

3.16 Cylinders/Day

= 3.8 Days per Header x 2 Headers = Maximum 7.6 Days between deliveries

Minimum Gas supply of 1 day required. Thus, in order to get gas delivered once a week (ie. every Wednesday) there will be 24 cylinders delivered every seven days in order to have uninterrupted service with an automatic manifold.

CATALOGS GENTEC® Related Catalogs



Gas Welding & Cutting Apparatus

- Gold Series Deluxe Outfits
- Cutting Outfits
- Torch HandlesCutting Attachments
- Hand Cutting Torches
- Machine Cutting Torches & Accessories
- Check Valves, Quick Connectors,
- Flashback ArrestorsWelding , Heating Nozzles, Cutting Tips
- The Small Torch, The Compact Torch
- MUL-T-TORCH Outfit & Components
- Compressed Gas Regulators





Air Gas Kits

- Air Gas Auto-Ignite Kits
- Air Gas Torch Handles
- Air Gas Auto-Ignite Tips
- Air Acetylene Tips
- Air Propane/MAPP® Tips
- Air Propane/MAPP® Hand Torch Kits
- Air Propane/MAPP® Hand Torch
- Oxy-Fuel Outfits
- Oxy-Fuel Apparatus
- Cutting Attachment & Tips
- The Compact TorchTM Kits
- RegulatorsGauges

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The Small Torch[™] Kits

- Air-Acetylene
- Oxy-Acetylene & Oxy-Fuel Kits
- Regulators
- Replacement Hoses
- Air- Acetylene Torch Handle & TipsOxy-Acetylene / Oxy-Fuel Torch
- Handle & Tips



PROWELD

Gas Welding & Cutting Apparatus (Proweld)

- 7320, 7330 Series Duty Outfits
- 320, 330 Series Single Stage Regulators
- 394C Series Electrically Heated Regulator
- 791 Series Flowmeter Regulators
- Welding & Cutting Torches, Tips
- Flashback Arrestors, Check Valves,
- Quick Connectors
- Electrode Holders, Welding Cables
- Welding , Heating Nozzles, Cutting Tips
- Ground Clamps, Cable Connectors
- Welding Goggles, Helmets
- Strikers & Replacement Flints, Tip Cleaners
- Grade T Twin Hoses, Pressure Gauges

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