GENTEC®
GENSTAR TECHNOLOGIES

MANIFOLD SYSTEMS

UL AP QMS REGISTERED

Genstar Technologies Company, Inc.

COMPANY OVERVIEW

Founded in 1969, **Genstar Technologies Co., Inc. (Gentec)** is a world-class manufacturer specializing in producing high quality gas control components. Gentec's product lines include ultra high purity, high purity, and industrial gas control and handling devices, medical gas control systems, high pressure gas products, and gas welding apparatus. As a total system solution provider, Gentec also offers its customer value-added services such as technical support, on-site evaluation, design, and implementation.

Today, Genstar Technologies is a global industrial leader renowned for outstanding customer service, excellent product quality, and continuous technological innovation.

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Manifold Purchase Specifications Form

1 Application of the manifold system: ☐ Industrial ☐ Specialty Gas ☐ Others _____

2 Gas service: ☐ Oxygen ☐ Acetylene ☐ Propane ☐ Air

☐ Carbon Dioxide (CO_2) ☐ Inert Gases (Argon, Nitrogen, Helium) ☐ Others _____

3 Type of manifold system required: ☐ Manual ☐ Semi-Automatic ☐ Automatic

4 Outlet pressure required: (PSI) _____

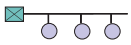
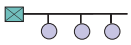
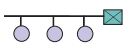
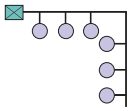
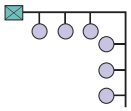
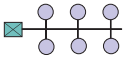
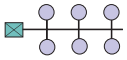
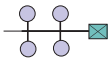
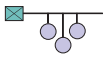
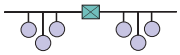
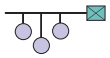
5 Outlet flow rate required: (SCFH) _____

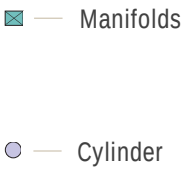
6 Type of mounting: ☐ Wall Mount ☐ Floor Mount _____

7 Cylinder Spacing (Center to Center): ☐ 5" ☐ 10" ☐ 13" ☐ 18"

8 Number of cylinders required: Left Bank _____ , Right Bank _____

9 Manifold system layout: _____

Layout \ Series No.	5200 Series	5300/5400/5500/5500D Series	5600 Series
1 Standard Layout			
2 "L" shape Layout			
3 "U" shape Layout			
4 Crossover Layout			
5 Staggered Layout			



10 Accessories:

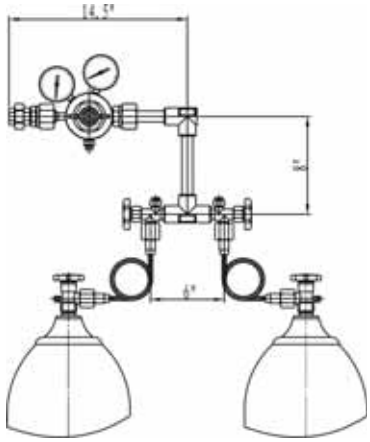
Pressure Switch	Model No.	_____	Qty	_____
Alarm System	Model No.	_____	Qty	_____
Gas Terminal (Pipeline)	Model No.	_____	Qty	_____
Gas Heater*	Model No.	_____	Qty	_____
Others	Model No.	_____	Qty	_____

***:** *Optional 500 SCFH heater is available for CO_2 & N_2O 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.*

Dual Manifold Systems

5100 series dual manifold system 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 simple gas applications or one cylinder in service at one time and one in reserve where a manual change over is required.



Features

- Silver brazing on piping joints for maximum leak prevention.
- Individual Header Valves.
- Wall mount installation only.

Standard Construction

- 24" flexible high pressure stainless steel braided pigtails with check valve, Rigid copper pigtails are available as an option. 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 153M.
- Relief valve at outlet for protecting downstream piping.

MODEL NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	OUTLET CONNECTION	INLET DESCRIPTION
5100X	OXYGEN	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA540
5100Y	ACETYLENE	400	2~15	3/4" NPT (M)	PIGTAIL, CGA510
5100F	PROPANE	400	5~125	3/4" NPT (M)	PIGTAIL, CGA510
5100C	CO_2	3000	5~125	3/4" NPT (M)	PIGTAIL, CGA320
5100IN	Ar, He, N_2	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA580
5100Q	AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA590
5100BQ	BREATHING AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA346

Ordering Information

Please specify the "model number" when ordering. For example: 5100X indicates a dual “oxygen” manifold system.

Single-Side Manifold Systems

5200 series single-side 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-hand direction cylinder bank.
- Silver brazing on piping joints for maximum leak prevention.
- System is designed to accomodate future expansion needs.
- Pressure switch port is available.
- Wall or stand mount are available.

Standard Construction

- 24" flexible high pressure stainless steel braided pigtails with check valve. Rigid copper pigtails are available as an option. Pigtails for Acetylene models are equipped with a 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.
- Relief valve at outlet for protecting downstream piping.

SERIES NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	OUTLET CONNECTION	INLET DESCRIPTION
5200X	OXYGEN	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA540
5200Y	ACETYLENE	400	2~15	3/4" NPT (M)	PIGTAIL, CGA510
5200F	PROPANE	400	5~125	3/4" NPT (M)	PIGTAIL, CGA510
5200C	CO_2	3000	5~125	3/4" NPT (M)	PIGTAIL, CGA320
5200IN	Ar, He, N_2	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA580
5200Q	AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA590
5200BQ	BREATHING AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA346

Ordering Information

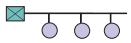
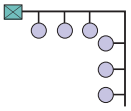
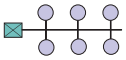
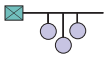
Please follow the instructions below to select the correct model number.

5 2 1 2 X - 3 R - 1

- 5 2 — Simplex manifold system series prefix
- 1 — Manifold system layout
- 2 — Cylinder valve spacing
- X — Gas service
- 3 — Number of cylinders
- R — Direction of manifold piping ("L" for left, "R" for right)
- 1 — Type of mounting

Note: Direction of piping (Right or Left) is indicated by facing the manifold

Manifold System Layouts

	Standard Layout
	"L" shape Layout
	Crossover Layout
	Staggered Layout

Manifold System Layout

PART NUMBER	MANIFOLD SYSTEM LAYOUT
1	STANDARD LAYOUT
2	"L" SHAPE LAYOUT
3	N/A
4	CROSSOVER LAYOUT
5	STAGGERED LAYOUT

Cylinder Spacing (Center to Center)

PART NUMBER	CYLINDER SPACING
1	5"
2	10"
3	13"
4	18"

Gas Service

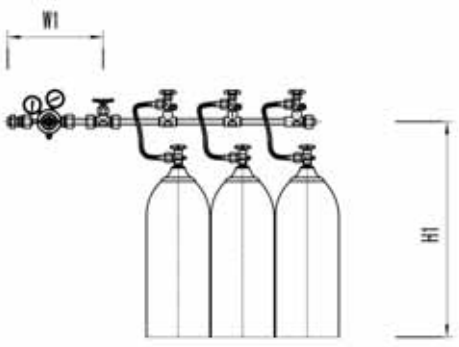
PART NUMBER	GAS SERVICE
X	OXYGEN
Y	ACETYLENE
F	PROPANE
C	CO_2
IN	Ar, He, N_2
Q	AIR
BQ	BREATHING AIR

Type of Mounting

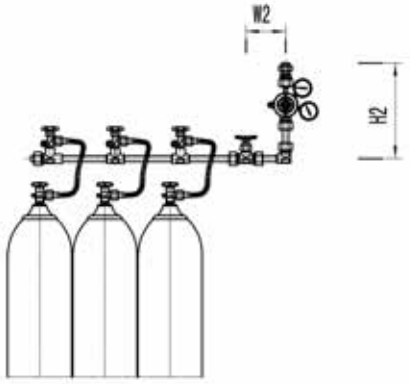
PART NUMBER	TYPE OF MOUNTING
1	WALL MOUNT
2	FLOOR MOUNT

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

Installation Dimensions



Right-handed simplex manifold system



Left-handed simplex manifold system

GAS SERVICE	W1 (inch)	H1 (inch)	W2 (inch)	H2 (inch)
OXYGEN, AIR, BRESTHING AIR, Ar, He, N_2, CO_2	14	61	6	15
ACETYLENE, PROPANE	21	61	6	21

Single Manifold Systems

5300 series single 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 accommodate future expanison needs.
- Pressure switch port is available.
- Easy Installation.
- Wall or stand mount are available.

Standard Construction

- 24" flexible high pressure stainless steel braided pigtails with check valve. Rigid copper pigtails are available as an option. Pigtails for Acetylene models are equipped with dry flashback arrestor.
- For Acetylene or fuel gas model, regulator outlet is equipped with dry flashback arrestor (FA30PF) for additional safety. As an option, hydraulic flashback arrestors are available for an additional charge.
- Gentec's ultra high flow regulator series 155M.
- Relief valve at outlet for protecting downstream piping.

SERIES NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	OUTLET CONNECTION	INLET DESCRIPTION
5300X	OXYGEN	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA540
5300Y	ACETYLENE	400	2~15	3/4" NPT (M)	PIGTAIL, CGA510
5300F	PROPANE	400	5~125	3/4" NPT (M)	PIGTAIL, CGA510
5300C	CO_2	3000	5~125	3/4" NPT (M)	PIGTAIL, CGA320
5300IN	Ar, He, N_2	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA580
5300Q	AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA590
5300BQ	BREATHING AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA346

Ordering Information

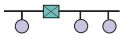
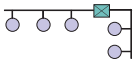
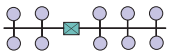
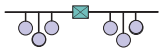
Please follow the instructions below to select the correct model number.

5 3 1 2 X - 5 × 5 - 1

- Single manifold system series prefix
- Manifold system layout
- Cylinder valve spacing
- Gas service
- Number of cylinders (left side)
- Number of cylinders (right side)
- Type of mounting

Note: Direction of piping (Right or Left) is indicated by facing the manifold

Manifold System Layouts

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

Manifold System Layout

PART NUMBER	MANIFOLD SYSTEM LAYOUT
1	STANDARD LAYOUT
2	"L" SHAPE LAYOUT
3	"U" SHAPE LAYOUT
4	CROSSOVER LAYOUT
5	STAGGERED LAYOUT

Cylinder Spacing (Center to Center)

PART NUMBER	CYLINDER SPACING
1	5"
2	10"
3	13"
4	18"

Gas Service

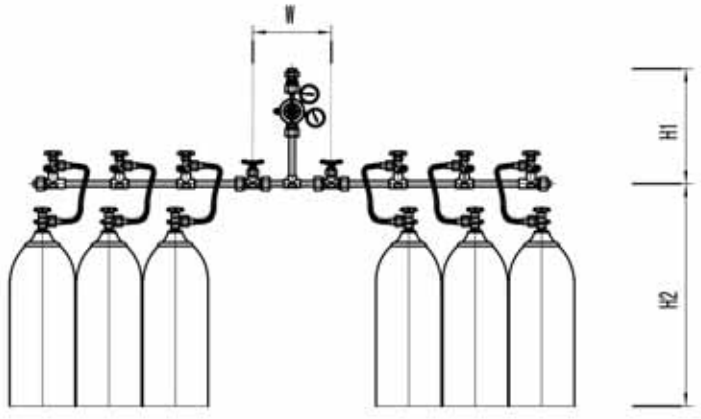
PART NUMBER	GAS SERVICE
X	OXYGEN
Y	ACETYLENE
F	PROPANE
C	CO_2
IN	Ar, He, N_2
Q	AIR
BQ	BREATHING AIR

Type of Mounting

PART NUMBER	TYPE OF MOUNTING
1	WALL MOUNT
2	FLOOR MOUNT

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

Installation Dimensions



GAS SERVICE	W (inch)	H1 (inch)	H2 (inch)
OXYGEN, AIR, BREATHING AIR, Ar, He, N_2, CO_2	11	19	61
ACETYLENE, PROPANE	11	26	61

Semi-Automatic Manifold Systems

5400 series manifold system is designed to provide an uninterrupted gas supply. It consists of a primary bank and a reserve bank of cylinders. When the primary cylinder bank is depleted, 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.

Features

- Open-style manifold.
- 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.
- Unique changeover valve provides uninterrupted supply of gas from primary and reserve banks.
- Pressure switch port is available.
- Easy installation.
- Wall or stand mount are available.

Standard Construction

- 24" flexible high pressure stainless steel braided pigtails with check valve. Rigid copper pigtails are available as an option. Pigtails for Acetylene models are equipped with dry flashback arrestor.
- For Acetylene or fuel gas model, manifold outlet is equipped with dry flashback arrestor (FA30PF) for additional safety. As an option, hydraulic flashback arrestors are available for an additional charge.
- Gentec's ultra high flow regulator series 155L (except for acetylene) & 155M.
- Relief valve at outlet for protecting downstream piping.

SERIES NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	OUTLET CONNECTION	INLET DESCRIPTION
5400X	OXYGEN	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA540
5400Y	ACETYLENE	400	2~15	3/4" NPT (M)	PIGTAIL, CGA510
5400F	PROPANE	400	5~125	3/4" NPT (M)	PIGTAIL, CGA510
5400C	CO_2	3000	5~125	3/4" NPT (M)	PIGTAIL, CGA320
5400IN	Ar, He, N_2	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA580
5400Q	AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA590
5400BQ	BREATHING AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA346

Ordering Information

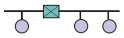
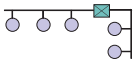
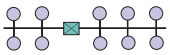
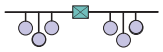
Please follow the instructions below to select the correct model number.

5 4 1 2 X - 5 × 5 - 1

- **5 4** — Semi-automatic manifold system prefix
- **1** — Manifold system layout
- **2** — Cylinder valve spacing
- **X** — Gas service
- **5** — Number of cylinders (left side)
- **5** — Number of cylinders (right side)
- **1** — Type of mounting

Note: Direction of piping (Right or Left) is indicated by facing the manifold

Manifold System Layouts

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

Manifold System Layout

PART NUMBER	MANIFOLD SYSTEM LAYOUT
1	STANDARD LAYOUT
2	"L" SHAPE LAYOUT
3	"U" SHAPE LAYOUT
4	CROSSOVER LAYOUT
5	STAGGERED LAYOUT

Cylinder Spacing (Center to Center)

PART NUMBER	CYLINDER SPACING
1	5"
2	10"
3	13"
4	18"

Gas Service

PART NUMBER	GAS SERVICE
X	OXYGEN
Y	ACETYLENE
F	PROPANE
C	CO_2
IN	Ar, He, N_2
Q	AIR
BQ	BREATHING AIR

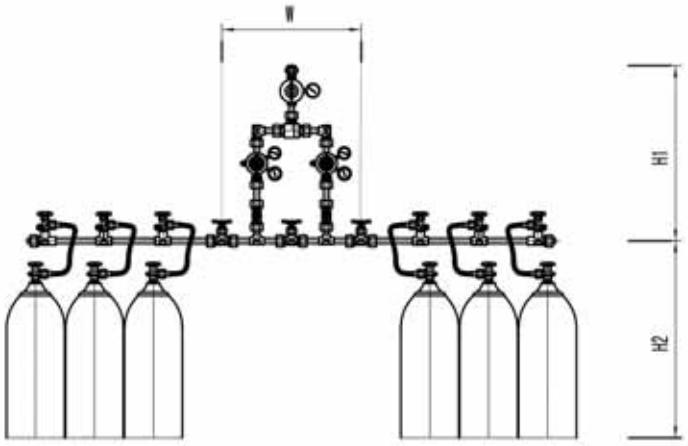
Type of Mounting

PART NUMBER	TYPE OF MOUNTING
1	WALL MOUNT
2	FLOOR MOUNT

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

Installation Dimensions

GAS SERVICE	W (inch)	H1 (inch)	H2 (inch)
OXYGEN, AIR, BREATHING AIR, Ar, He, N_2, CO_2	22	19	61
ACETYLENE, PROPANE	22	26	61



Automatic Manifold Systems

5500 series automatic manifold system is designed to provide an uninteruppted gas supply without any manual adjustments. This system automatically changes over when the primary cylinder bank is depleted. Even in case of power failure, the system continues to supply gas without interruption.

Features

Automatic Changeover System

- Fully enclosed, tamper- resistant metal cabinet.
- Pressure switch control.
- Light indicators provide system status.
- Systems for fuel gas come with an Anti-explosive device.
- Remote alarm panels are available as an option.
- Pressure switch port is available.

Pipeline

- Open-style manifold.
- Silver brazing on piping joints for maximum leak prevention.
- System is designed to accommodate future expanison needs.
- Unique changeover valve provides uninterrupted supply of gas from primary and reserve banks.
- Easy Installation.
- Wall or floor mount are available.

Standard Construction

- 24" flexible high pressure stainless steel braided pigtails with check valve. Rigid copper pigtails are available as an option. Acetylene models equipped with dry flashback arrestor.
- For Acetylene or fuel gas model, manifold outlet is equipped with dry flashback arrestor (FA30PF). As an option, hydraulic flashback arrestors are available for an additional charge.
- Gentec's ultra high flow regulator series 153 & 155L.
- Relief valve at outlet for protecting down-stream piping.

SERIES NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	OUTLET CONNECTION	INLET DESCRIPTION
5500X	OXYGEN	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA540
5500EY	ACETYLENE	400	2~15	3/4" NPT (M)	PIGTAIL, CGA510
5500EF	PROPANE	400	5~125	3/4" NPT (M)	PIGTAIL, CGA510
5500C	CO_2	3000	5~125	3/4" NPT (M)	PIGTAIL, CGA320
5500IN	Ar, He, N_2	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA580
5500Q	Air	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA590
5500BQ	BREATHING AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA346

Ordering Information

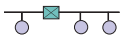
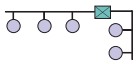
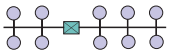
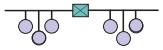
Please follow the instructions below to select the correct model number.

5 5 1 2 E X - 5 × 5 - 1

- **5 5** — Automatic manifold system series prefix
- **1** — Manifold system layout
- **2** — Cylinder valve spacing
- **E** — Anti-explosion service for fuel gas
- **X** — Gas service
- **5** — Number of cylinders (left side)
- **5** — Number of cylinders (right side)
- **1** — Type of mounting

Note: Direction of piping (Right or Left) is indicated by facing the manifold

Manifold System Layouts

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

Manifold System Layout

PART NUMBER	MANIFOLD SYSTEM LAYOUT
1	STANDARD LAYOUT
2	"L" SHAPE LAYOUT
3	"U" SHAPE LAYOUT
4	CROSSOVER LAYOUT
5	STAGGERED LAYOUT

Cylinder Spacing (Center to Center)

PART NUMBER	CYLINDER SPACING
1	5"
2	10"
3	13"
4	18"

Gas Service

PART NUMBER	GAS SERVICE
X	OXYGEN
Y	ACETYLENE
F	PROPANE
C	CO_2
IN	Ar, He, N_2
Q	Air
BQ	BREATHING AIR

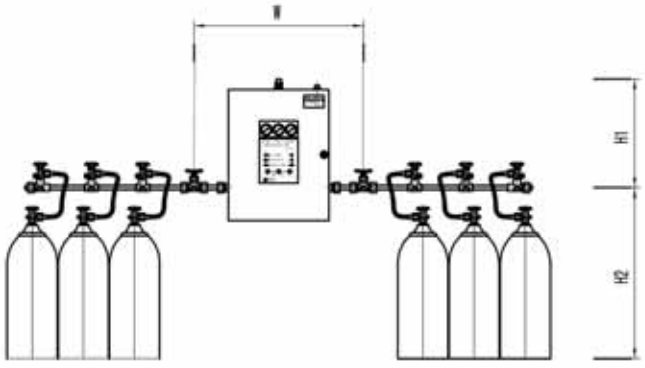
Type of Mounting

PART NUMBER	TYPE OF MOUNTING
1	WALL MOUNT
2	FLOOR MOUNT

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

Installation Dimensions

GAS SERVICE	W (inch)	H1 (inch)	H2 (inch)
OXYGEN, AIR, BREATHING AIR, Ar, He, N_2, H_2	22	19	61
ACETYLENE, PROPANE	22	26	61



Digital Automatic Manifold Systems

5500D series digital automatic manifold system is designed to provide an uninteruppted gas supply with an integrated circuit board. The fully automatic manifold system monitors cylinder bank pressure electronically, controls the changover when the primary cylinder bank is depleted, and eliminates the need to manually reset the valve. Even in case of power failure, the system continues to supply gas without interruption.

Features

Automatic Changeover System

- Fully enclosed, tamper- resistant metal cabinet.
- Pressure switch control.
- LED indicators provide system status.
- Pressure switch port is available.

Pipeline

- Open-styled manifold.
- Silver brazing on piping joints for maximum leak prevention.
- System is designed to accomodate future expansion needs.
- Unique changeover valve provides uninterrupted supply of gas from primary and reserve banks.
- Easy Installation.
- Wall or floor mount are available.

Standard Construction

- 24" flexible high pressure stainless steel braided pigtails with check valve. Rigid copper pigtails are available as an option.
- Gentec's ultra high flow regulator series 153 & 155L.
- Relief valve at outlet for protecting downstream piping.

SERIES NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	OUTLET CONNECTION	INLET DESCRIPTION
5500DX	OXYGEN	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA540
5500DC	CO_2	3000	5~125	3/4" NPT (M)	PIGTAIL, CGA320
5500DIN	Ar, He, N_2	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA580
5500DN	N_2O	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA590
5500DQ	Air	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA590
5500DBQ	BREATHING AIR	3000	10~200	3/4" NPT (M)	PIGTAIL, CGA346

Ordering Information

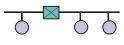
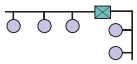
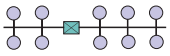
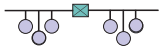
Please follow the instructions below to select the correct model number.

5 5 1 2 D X - 5 × 5 - 1

- Digital automatic manifold system series prefix
- Manifold system layout
- Cylinder valve spacing
- Digital
- Gas service
- Number of cylinders (left side)
- Number of cylinders (right side)
- Type of mounting

Note: Direction of piping (Right or Left) is indicated by facing the manifold

Manifold System Layouts

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

Manifold System Layout

PART NUMBER	MANIFOLD SYSTEM LAYOUT
1	STANDARD LAYOUT
2	"L" SHAPE LAYOUT
3	"U" SHAPE LAYOUT
4	CROSSOVER LAYOUT
5	STAGGERED LAYOUT

Cylinder Spacing (Center to Center)

PART NUMBER	CYLINDER SPACING
1	5"
2	10"
3	13"
4	18"

Gas Service

PART NUMBER	GAS SERVICE
X	OXYGEN
C	CO_2
IN	Ar, He, N_2
N	N_2O
Q	AIR
BQ	BREATHING AIR

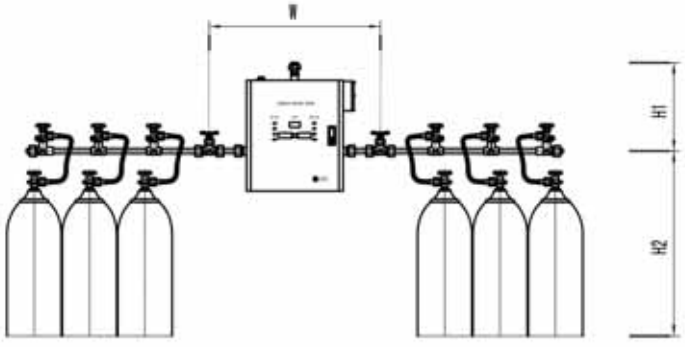
Type of Mounting

PART NUMBER	TYPE OF MOUNTING
1	WALL MOUNT
2	FLOOR MOUNT

Example: 5512DX-5x5-1 indicates a 5 x 5 oxygen cylinder, digital automatic manifold system. Distance between two cylinders is 10" on standard horizontal layout.

Installation Dimension

GAS SERVICE	W (inch)	H1 (inch)	H2 (inch)
OXYGEN, AIR, BREATHING AIR, Ar, He, N_2, CO_2, N_2O	22	19	61



Semi-Automatic Manifold Systems For Liquid Vessel

5600 series manifold system 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 bank. Upon changing the cylinders, 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 provide uninterrupted supply of gas from primary and reserve banks.
- Easy Installation.
- Check valve on liquid vessel side to prevent high pressure reverse flow to liquid regulator.
- Relief valve at outlet for protecting downstream piping.
- GENTEC high flow regulator series 153M & 853MLC.

MODEL NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	OUTLET CONNECTION	INLET DESCRIPTION
5600X	OXYGEN	500	5~125	3/4" NPT (M)	PIGTAIL, CGA540
5600C	CO_2	500	5~125	3/4" NPT (M)	PIGTAIL, CGA320
5600IN	Ar, He, N_2	500	5~125	3/4" NPT (M)	PIGTAIL, CGA580

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

125PSIG is typical, 300PSIG models are available upon request.

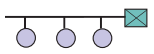
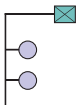
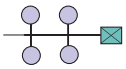
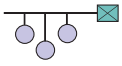
Ordering Information

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

5 6 1 2 X - 5 × 1 - 1

- 5 6 — Semi-automatic manifold system series prefix
- 1 — Cylinder side (Left Bank)layout
- 2 — Cylinder spacing
- X — Gas service
- 5 — Number of cylinders (left side)
- 1 — One liquid vessel (right side)
- 1 — Type of mounting

Manifold System Layouts

	Standard Layout
	"L" shape Layout
	Crossover Layout
	Staggered Layout

Manifold System Layout

PART NUMBER	MANIFOLD SYSTEM LAYOUT
1	STANDARD LAYOUT
2	"L" SHAPE LAYOUT
4	CROSSOVER LAYOUT
5	STAGGERED LAYOUT

Cylinder Spacing (Center to Center)

PART NUMBER	CYLINDER SPACING
1	5"
2	10"
3	13"
4	18"

Gas Service

PART NUMBER	GAS SERVICE
X	OXYGEN
C	CO_2
IN	Ar, He, N_2

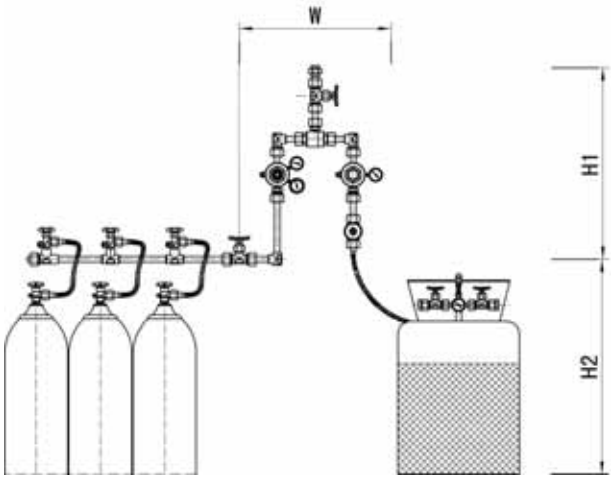
Type of Mounting

PART NUMBER	TYPE OF MOUNTING
1	WALL MOUNT
2	FLOOR MOUNT

Example: 5612X-5x1-1 indicates a 5 x 1 oxygen cylinder, semi-automatic liquid vessel manifold system. Distance between two cylinders is 10" on standard horizontal layout of left bank.

Installation Dimension

GAS SERVICE	W (inch)	H1 (inch)	H2 (inch)
OXYGEN, Ar, He, N_2, CO_2	22	19	61



Semi-Automatic Manifold Systems For Dual Liquid Vessel

5700 series manifold system 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 provide uninterrupted supply of gas from primary and reserve vessels .
- Check valve at outlets of regulators to prevent high pressure, reverse flow to liquid regulator.
- Easy Installation.
- Relief valve at the outlet for protecting downstream piping.
- GENTEC high flow regulator series 853MLC.

MODEL NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	OUTLET CONNECTION	INLET DESCRIPTION
5700X	OXYGEN	500	5~125	3/4" NPT (M)	PIGTAIL, CGA540
5700C	CO_2	500	5~125	3/4" NPT (M)	PIGTAIL, CGA320
5700IN	Ar, He, N_2	500	5~125	3/4" NPT (M)	PIGTAIL, CGA580

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

125PSIG is typical, 300PSIG models are available upon request.

Ordering Information

Example: 5700X indicates oxygen dual liquid vessels manifold system.

Single-Side Manifolds Without Cylinder Header

Designed for single-side 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 psig for Oxygen, CO_2, Ar, He, N_2, Air
400 psig for Acetylene, Propane

5200X-00R

5200X-00L

MODEL NUMBER	GAS SERVICE	DESCRIPTION
5200X-00L	OXYGEN	LEFT BANK with RV
5200X-00R	OXYGEN	RIGHT BANK with RV
5200YD-00L	ACETYLENE	LEFT BANK WITH FA (FA30PF) & RV
5200YH-00L	ACETYLENE	LEFT BANK WITH FA (GFA-1000A) & RV
5200YD-00R	ACETYLENE	RIGHT BANK WITH FA (FA30PF) & RV
5200YH-00R	ACETYLENE	RIGHT BANK WITH FA (GFA-1000A) & RV
5200FD-00L	PROPANE	LEFT BANK WITH FA (FA30PF) & RV
5200FH-00L	PROPANE	LEFT BANK WITH FA (GFA-1000LPG) & RV
5200FD-00R	PROPANE	RIGHT BANK WITH FA (FA30PF) & RV
5200FH-00R	PROPANE	RIGHT BANK WITH FA (GFA-1000LPG) & RV
5200C-00L	CO_2	LEFT BANK with RV
5200C-00R	CO_2	RIGHT BANK with RV
5200IN-00L	Ar, He, N_2	LEFT BANK with RV
5200IN-00R	Ar, He, N_2	RIGHT BANK with RV
5200Q-00L	AIR, BREATHING AIR	LEFT BANK with RV
5200Q-00R	AIR, BREATHING AIR	RIGHT BANK with RV

FA : Flashback Arrestor
RV: Relief Valve

Dual Manifolds Without Cylinder Header

Designed for dual changeover manifold systems. Inlet connection thread: 1-11 1/2NPS RH(M). Outlet connection thread: 3/4 NPT(M)
Max.Inlet Pressure: 3000 psig for Oxygen, CO_2, Ar, He, N_2, Air.
400 psig for Acetylene, Propane.

5300X-00

MODEL NUMBER	GAS SERVICE	DESCRIPTION
5300X-00	OXYGEN	
5300YD-00	ACETYLENE	WITH FA (FA30PF) with RV
5300YH-00	ACETYLENE	WITH FA (GFA-1000A) with RV
5300FD-00	PROPANE	WITH FA (FA30PF) with RV
5300FH-00	PROPANE	WITH FA (GFA-1000LPG) with RV
5300C-00	CO_2	with RV
5300IN-00	Ar, He, N_2	with RV
5300Q-00	AIR, BREATHING AIR	with RV

FA : Flashback Arrestor
RV: Relief Valve

Semi-Automatic Manifolds Without Cylinder Hesder

Designed for semi-automatic changeover manifold systems. Outlet connection thread: 3/4" NPT(M). Inlet connection thread: 1-11 1/2NPS RH(M); Max.Inlet Pressure: 3000 psig for Oxygen, CO_2, Ar, He, N_2, Air; 400 psig for Acetylene, Propane.

5400X-00

MODEL NUMBER	GAS SERVICE	DESCRIPTION
5400X-00	OXYGEN	
5400YD-00	ACETYLENE	WITH FA (FA30PF) & RV
5400YH-00	ACETYLENE	WITH FA (GFA-1000A) & RV
5400FD-00	PROPANE	WITH FA (FA30PF) & RV
5400FH-00	PROPANE	WITH FA (GFA-1000LPG) & RV
5400C-00	CO_2	WITH RV
5400IN-00	Ar, He, N_2	WITH RV
5400Q-00	AIR, BREATHING AIR	WITH RV
5400H-00	H_2	WITH RV

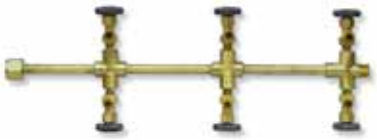
FA : Flashback Arrestor
RV: Relief Valve

Manifold Cylinder Header

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

GHER-310X (right-sided manifold pipings)

GHEL-310X (left-sided manifold pipings)



GHEC-310X (dual-sided manifold pipings)

Features

- Machined with class "A" brass stock.
- Silver brazing on piping joints for maximum leak prevention.
- Maximum working pressure: 3000 psig
- Inlet (Header valve): Fuel Gas - CGA510
  Oxygen - CGA540
  CO_2 - CGA320
  Ar,He,N_2 - CGA580
  Air - CGA590
  Breathing Air - CGA346
- Outlet: 1-11 1/2NPS
- GHER, GHEL and GHEC series are designed with inlet connection for each cylinder.

Ordering Infomation for Manifold Cylinder Header

GHEX - X X X X

- Gas service (X/C/IN/Q/F)
- Valve Spacing(05"/10"/13"/18")
- Number of joints(2/3/5)
- Series number

SERIES NUMBER	PIPING SHAPE & LAYOUT JOINTS	NUMBER OF JOINTS	JOINT DISTANCE	GAS SERVICE
GHER	Right-Side	2,3,5	5" 10" 13" 18"	**X:** O_2 **C:** CO_2 **IN:** Ar, He, N_2 **Q:** Air, **F:** Acetylene Propane **BQ:** Breathing Air
GHEL	Left-Side	2,3,5	5" 10" 13" 18"	
GHEC	Dual-Side	2,3,5	5" 10" 13"	

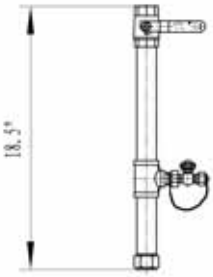
Example:GHER-210X indicates a right side oxygen manifold piping system with 2 joints, and 10" joint distance.

Station Drops

- GSOL series station drops are
- Inlet connection:1/2"NPT
- Station Regulators are available (page 24)
- In-Line shut-off valves (Ball Valves) are available (page 18)
- Check valves for oxygen and fuel gases are available (page 18)
- Labeled for Gas Service

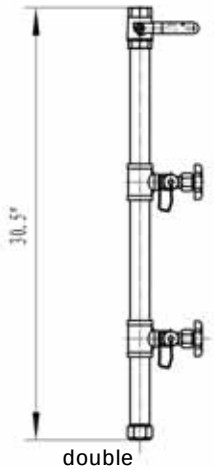
GSOL-2X-R

GSOL-1 Series



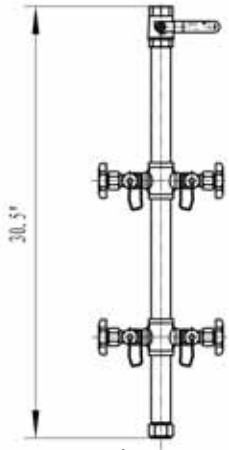
single
with ball seat valve

GSOL-2 Series



double
with station valves

GSOL-4 Series



quad
with station valves

MODEL NUMBER	GAS SERVICE	NO.OF OUTLET	OUTLET CONNECTION
GSOL-1X-R	OXYGEN	1	Station Valve, 7/8"-14RH(M), CGA024
GSOL-2X-R	OXYGEN	2	Station Valve, 7/8"-14RH(M), CGA024
GSOL-4X-R	OXYGEN	4	Station Valve, 7/8"-14RH(M), CGA024
GSOL-1X-H	OXYGEN	1	Ball Seat Valve, 9/16"-18RH(M),CGA022
GSOL-2X-H	OXYGEN	2	Ball Seat Valve, 9/16"-18RH(M),CGA022
GSOL-4X-H	OXYGEN	4	Ball Seat Valve,9/16"-18RH(M), CGA022
GSOL-1IN-R	CO2,INLET GAS	1	Station Valve, 7/8"-14RH(F), CGA034
GSOL-2IN-R	CO2,INLET GAS	2	Station Valve, 7/8"-14RH(F), CGA034
GSOL-4IN-R	CO2,INLET GAS	4	Station Valve, 7/8"-14RH(F), CGA034
GSOL-1IN-H	CO2,INLET GAS	1	Ball Seat Valve, 5/8"-18RH(F), CGA032
GSOL-2IN-H	CO2,INLET GAS	2	Ball Seat Valve, 5/8"-18RH(F), CGA032
GSOL-4IN-H	CO2,INLET GAS	4	Ball Seat Valve, 5/8"-18RH(F), CGA032
GSOL-1F-R	FUEL GAS	1	Station Valve, 7/8"-14LH(M), CGA025
GSOL-2F-R	FUEL GAS	2	Station Valve, 7/8"-14LH(M), CGA025
GSOL-4F-R	FUEL GAS	4	Station Valve, 7/8"-14LH(M), CGA025
GSOL-1F-H	FUEL GAS	1	Ball Seat Valve, 9/16"-18LH(M), CGA023
GSOL-2F-H	FUEL GAS	2	Ball Seat Valve, 9/16"-18LH(M), CGA023
GSOL-4F-H	FUEL GAS	4	Ball Seat Valve, 9/16"-18LH(M), CGA023

Header Extensions

GCC-4

GEE-11

GET-9X

MODEL NUMBER	LENGTH	INLET CONNECTION	OUTLET CONNECTION	DESCRIPTION
GEE-4	4-1/2"	1-11 1/2 NPS-RH (M)	1-11 1/2 NPS-RH (F)	Elbow
GEE-8	8-1/3"	1-11 1/2 NPS-RH (M)	1-11 1/2 NPS-RH (F)	
GEE-11	11-1/3"	1-11 1/2 NPS-RH (M)	1-11 1/2 NPS-RH (F)	
GET-9X	8-2/3"	1-11 1/2 NPS-RH (F)	1-11 1/2 NPS-RH (F)	T
GCC-4	4"	1-11 1/2 NPS-RH (F)	1-11 1/2 NPS-RH (F)	
GCC-4L	4"	1-11 1/2 NPS-RH (F)	1-11 1/2 NPS-LH (F)	Extension

Valves & Accessories

GMV-180
Master Valve

GMV-90X
Header Valve

GMV-92X
Station Valve

GMQ-183
In-line Ball Valve

GHFN-X Nut

EN-100A Plug

GCC-A
Adaptor

24-0205
Ball Seat Valve

27-CV-IL
In-line Check Valve

MODEL NUMBER	INLET / OUTLET CONNECTION	GAS SERVICE	DESCRIPTION
GMV-180	1-11 1/2 NPS	*ALL GASES	MASTER VALVE
GMV-90X	CGA540 / 1/2"NPT	O_2	HEADER VALVE
GMV-90F	CGA510 / 1/2"NPT	ACETYLENE, PROPANE	
GMV-90C	CGA320 / 1/2"NPT	CO_2	
GMV-90IN	CGA580 / 1/2"NPT	N_2, Ar, He	
GMV-90Q	CGA590 / 1/2"NPT	Air	
GMV-90BQ	CGA346 / 1/2"NPT	Breathing Air	
GMV-92X	1/2" NPT / 7/8-14 RH (M) (CGA024)	O_2	STATION VALVE
GMV-92F	1/2" NPT / 7/8-14 LH (M) (CGA025)	ACETYLENE, PROPANE	
GMV-92IN	1/2" NPT / 7/8-14 RH (F) (CGA034)	CO_2, Air, N_2O, Ar, He	
GMQ-183	1/2" NPT / 1/2" NPT	*ALL GASES	IN-LINE BALL VALVE
GMQ-184	1/2" NPT / 3/4" NPT	*ALL GASES	
27-CV-IL	1/2" NPT(M) / 1/2" NPT(F)	ACETYLENE, PROPANE, O_2	IN-LINE CHECK VALVE
24-0205	1/4"NPT / 9/16-18RH (CGA022)	O_2	BALL SEAT VALVES
24-0206	1/4"NPT / 9/16-18LH (CGA023)	ACETYLENE, PROPANE	
24-0215AR	1/4"NPT / 5/8-18RH (CGA032)	CO2, Inert Gas	

*All gases = non-corrosive gases

MODEL NUMBER	DESCRIPTION
GHFN-X	NUT 1-11 1/2 NPS RH (F)
GHFN-F	NUT 1-11 1/2 NPS LH (F)
EN-100A	PLUG
R155-111	Adaptor1/4" NPT(M) / 1-11 1/2 NPS RH (M)
R155-111A	Adaptor 1/4" NPT(M) / 1-11 1/2 NPS LH (M)
R155-110	Adaptor 1/2" NPT(M) / 1-11 1/2 NPS RH (M)
R155-110A	Adaptor 1/2" NPT(M) / 1-11 1/2 NPS LH (M)
GCC-A	Adaptor 3/4" NPT(M) / 1-11 1/2 NPS RH (M)
GCC-C	Adaptor 3/4" NPT(M) / 1-11 1/2 NPS LH (M)

Relief Valves

MODEL NUMBER	INLET / OUTLET CONNECTION	GAS SERVICE	VENTING PRESSURE (PSI)
27-RV-Y-20	3/4" NPT	ACETYLENE	20
27-RV-F-40	3/4" NPT	FUEL GAS	40
27-RV-F-200	3/4" NPT	FUEL GAS	200
27-RV-IN-600	1/2" NPT	O2, Inert Gas	600

High Pressure Pigtails

(Copper pigtail)

(Stainless steel braided Teflon core pigtail)

- Rigid copper and flexible stainless steel braided Teflon core pigtails are available.
- Stainless steel braided pigtails come with anti-whip armor.
- Dry Flash Back Arrestor is included in Fuel Gas Models.
- 3000 PSI maximum working pressure.

MODEL NUMBER	GAS SERVICE	INLET/OUTLET CONNECTION	LENGTH	TYPE	CHECK VALVE	FLASH BACK ARRESTOR
GPF-36X-CV	OXYGEN	CGA540	36"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GPF-24X-CV	OXYGEN	CGA540	24"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GRP-24X-CV	OXYGEN	CGA540	24"	COPPER PIGTAIL	Y	N
GPS-36C-CV	CO2	CGA320	36"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GPS-24C-CV	CO2	CGA320	24"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GRP-24C-CV	CO2	CGA320	24"	COPPER PIGTAIL	Y	N
GPS-36IN-CV	Ar,He,N2	CGA580	36"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GPS-24IN-CV	Ar,He,N2	CGA580	24"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GRP-24IN-CV	Ar,He,N2	CGA580	24"	COPPER PIGTAIL	Y	N
GPS-36Q-CV	Air	CGA590	36"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GPS-24Q-CV	Air	CGA590	24"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GRP-24Q-CV	Air	CGA590	24"	COPPER PIGTAIL	Y	N
GPS-36Q-CV-346	Breathing Air	CGA346	36"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GPS-24Q-CV-346	Breathing Air	CGA346	24"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	N
GRP-24Q-CV-346	Breathing Air	CGA346	24"	COPPER PIGTAIL	Y	N
GPS-36Y-FA	Acetylene	CGA510	36"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	Y
GPS-24Y-FA	Acetylene	CGA510	24"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	Y
GPS-36F-FA	Propane	CGA510	36"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	Y
GPS-24F-FA	Propane	CGA510	24"	FLEXIBLE STAINLESS STEEL BRAIDED PIGTAIL	Y	Y
GRP-24F-FA	Propane	CGA510	24"	COPPER PIGTAIL	Y	Y

Note: End connectors of stainless steel tubings and pigtails are made of brass material.

Cylinder Wall Mounts, Pipe Holders, and Pipe Supports

GMB-7

GMB-9

GMB-1

GMB-3

GMB-6A

MODEL NUMBER	DESCRIPTION
GMB-1	SINGLE CYLINDER WALL MOUNT (9" wide)
GMB-2	SINGLE CYLINDER WALL MOUNT (14" wide)
GMB-3	DUAL CYLINDER WALL MOUNT (9" wide)
GMB-4	DUAL CYLINDER WALL MOUNT (14" wide)
GMB-6A	PIPE SUPPORT (61")
GMB-7	PIPE HOLDER Bracket
GMB-9	PIPE HOLDER

Hydraulic Flashback Arrestors

Hydraulic Flash Arrestor is designed for use on Acetylene or Fuel Gas Manifold Systems to protect the main gas supply from the dangers of reverse flow and flashbacks. A pressure relief valve is included to provide additional protection from excessive pressure.

GFA-300A
Flashback Arrestor

GFS-300
Stand

MODEL NUMBER	GAS SERVICE	DELIVERY FLOW (SCFH)	RELIEF VALVE VENT PRESSURE (PSI)	INLET/OUTLET CONNECTION
GFA-1000A	ACETYLENE	1000	20	1 1/2"NPT
GFA-1000LPG	PROPANE, LPG	1000	40	1 1/2"NPT
GFA-300A	ACETYLENE	300	20	1 1/2"NPT
GFA-300LPG	PROPANE, LPG	300	40	1 1/2"NPT
GFS-1000	STAND FOR GFA-1000A & GFA-1000LPG			
GFS-300	STAND FOR GFA-300A & GFA-300LPG			

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.

FA30PO

MODEL NUMBER	GAS SERVICE	WORKING PRESSURE (psi)	DELIVERY FLOW (SCFH)	INLET CONNECTION	OUTLET CONNECTION
FA30PF	ACETYLENE / PROPANE	15/22	2450	3/4" NPT (F)	3/4" NPT (F)
FA30PO	OXYGEN	145	5700	3/4" NPT (F)	3/4" NPT (F)

High Pressure Flashback Arrestors

Designed for use on Acetylene or Fuel Gas Manifold Systems with high pressure piping system to protect the main gas supply from the dangers of reverse flow and flashbacks. Stainless steel sintered elements and check valves are constructed for additional protection.

FA40HPF

MODEL NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	INLET CONNECTION	OUTLET CONNECTION
FA40HPF	ACETYLENE, PROPANE	400	1/4" NPT (F)	1/4" NPT (M)

Pressure Switches (Explosion-Proof Type)

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

Explosion-Proof Type

MODEL NUMBER	PRESSURE RANGE (psi)	MAX.INLET PRESSURE (psi)	PRESSURE CONNECTION	EXPLOSION-PROOF TYPE
GHPS-1	5~50	500	1/4" NPT	NO
GHPS-2	30~600	1500	1/4" NPT	NO
GHPS-3	100~1500	2200	1/4" NPT	NO
GHPS-4	400~1500	4500	1/4" Female NPT	YES
GHPS-5	15~75	1000	1/4" Female NPT	YES
GHPS-6	50~450	3000	1/4" Female NPT	YES
GHPS-7	2~25	1000	1/4" Female NPT	YES

Remote Alarm Panels

Remote alarm panel is suitable for all manifold systems. The alarm is activated to provide audio and visual warning when the service bank is empty. A press of reset button in front of the panel will silence the buzzer. The red alarm light will remain illuminated until the empty bank is replaced.

MODEL NUMBER	TYPE	NO,OF GASES
SGPA-1	AUDIO & VISUAL ALARM	1
SGPA-1-V	VISUAL ALARM	1
SGPA-2	AUDIO & VISUAL ALARM	2
SGPA-4	AUDIO & VISUAL ALARM	4

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.

FA7RF

FA7RO

MODEL NUMBER	GAS SERVICE	WORKING PRESSURE (psi)	INLET CONNECTION	OUTLET CONNECTION
FA7RF	ACETYLENE / PROPANE	15/22	9/16-18 LH (F)	9/16-18 LH(M)
FA7RO	OXYGEN	145	9/16-18 RH (F)	9/16-18 RH (M)

Quick Connectors with Check Valves

Designed with a check valve to provide protection from reverse flow during gas cutting processes.

RH14X

RH19X

MODEL NUMBER	GAS SERVICE	WORKING PRESSURE (psi)	INLET CONNECTION	OUTLET CONNECTION
RH14X	OXYGEN	145	9/16-18 RH (F)	9/16-18 RH (M)
RH14F	FUEL GAS	30	9/16-18 LH (F)	9/16-18 LH (M)
RH18X	OXYGEN	145	9/16-18 RH (F)	1/4" HOSE NIPPLE
RH18F	FUEL GAS	30	9/16-18 LH (F)	1/4" HOSE NIPPLE

Flowmeters

Precision gas flow control for MIG and TIG welding, laboratorial, and other industrial applications. Suitable for use on piping systems.

191FM-60

MODEL NUMBER	GAS SERVICE	WORKING PRESSURE (psi)	FLOWRATE	INLET CONNECTION	OUTLET CONNECTION
191FM-60	Ar / CO2	50	10-60SCFH	1/4"NPT (M)	5/8"-18 RH (F)
191FM-60A	Ar / CO2	50	10-60SCFH	9/16"-18 RH (F)	5/8"-18 RH (F)
191FM-100	Ar / CO2	50	20-100SCFH	1/4"NPT (M)	5/8"-18 RH (F)
191FM-100A	Ar / CO2	50	20-100SCFH	9/16"-18 RH (F)	5/8"-18 RH (F)
191FM-70	Nitrogen / Air	50	10-70SCFH	1/4"NPT (M)	5/8"-18 RH (F)
191FM-70A	Nitrogen / Air	50	10-70SCFH	9/16"-18 RH (F)	5/8"-18 RH (F)
191FM-50	Helium	50	10-50SCFH	1/4"NPT (M)	5/8"-18 RH (F)
191FM-50A	Helium	50	10-50SCFH	9/16"-18 RH (F)	5/8"-18 RH (F)
191FM-150	Helium	50	20-150SCFH	1/4"NPT (M)	5/8"-18 RH (F)
191FM-150A	Helium	50	20-150SCFH	9/16"-18 RH (F)	5/8"-18 RH (F)

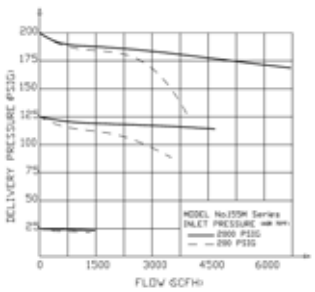
155MY-15

153MC-125

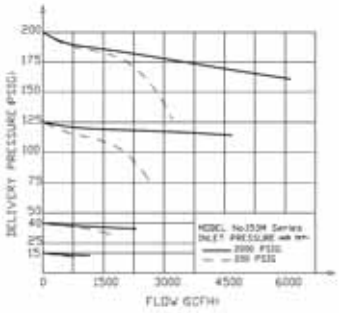
591MX-750

853MLCX-125

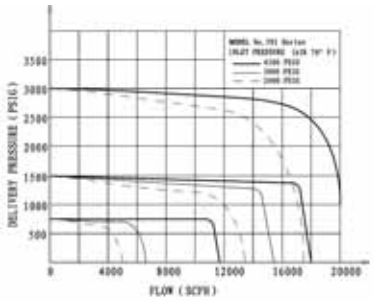
SERIES	MODEL NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	INLET CONNECTION	OUTLET CONNECTION
155M SERIES	155MX-125	OXYGEN	3000	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	155MX-200		3000	10~200	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	155MY-15	ACETYLENE	400	2~15	1-11 1/2 NPS RH (M)	1-11 1/2 NPS LH (F)
	155MF-40	LPG	400	2~40	1-11 1/2 NPS RH (M)	1-11 1/2 NPS LH (F)
	155MIN-125	Ar, He, N_2	3000	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	155MIN-200		3000	10~200	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	155MQ-125	AIR	3000	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	155MQ-200		3000	10~200	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	155MC-125	CO_2	3000	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	155MC-200		3000	10~200	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
153M SERIES	153MX-125	OXYGEN	3000	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	153MX-200		3000	10~200	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	153MY-15	ACETYLENE	400	2~15	1-11 1/2 NPS LH (M)	1-11 1/2 NPS LH (F)
	153MF-40	LPG	400	2~40	1-11 1/2 NPS LH (M)	1-11 1/2 NPS LH (F)
	153MF-125		400	5~125	1-11 1/2 NPS LH (M)	1-11 1/2 NPS LH (F)
	153MIN-125	Ar, He, N_2	3000	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	153MIN-200		3000	10~200	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	153MQ-125	AIR	3000	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	153MQ-200		3000	10~200	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	153MC-125	CO_2	3000	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	153MC-200		3000	10~200	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
591-A SERIES	591MX-750	OXYGEN	3000	50~750	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	591MX-1500		3000	100~1500	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	591MX-3000		3000	200~3000	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	591MIN-1500	Ar, He, N_2	3000	100~1500	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	591MIN-3000		3000	200~3000	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	591MQ-1500	AIIR	3000	100~1500	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	591MQ-3000		3000	200~3000	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
853LC SERIES	853MLCX-125	OXYGEN	500	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	853MLCCD-125	CO_2	500	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)
	853MLCIN-125	Ar, N_2	500	5~125	1-11 1/2 NPS RH (M)	1-11 1/2 NPS RH (F)



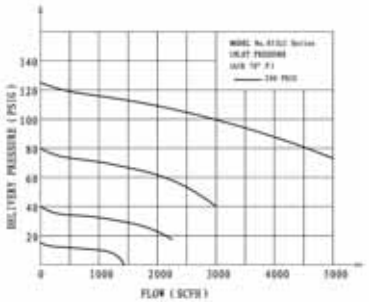
155M Series



153M Series



591M Series



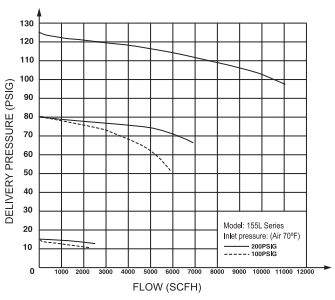
853MLC Series

155LX-80

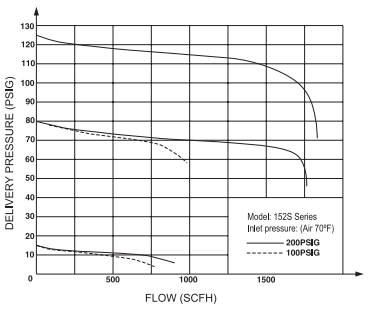
152SX-80

853SRIN-40

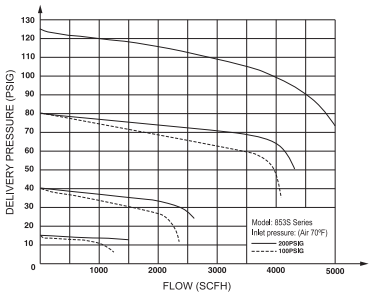
SERIES	MODEL NUMBER	GAS SERVICE	MAX.INLET PRESSURE (psi)	DELIVERY PRESSURE (psi)	INLET CONNECTION	OUTLET CONNECTION
155L SERIES	155LX-80	OXYGEN	350	3~80	3/4" NPT (F)	3/4" NPT (F)
	155LX-125		350	5~120	3/4" NPT (F)	3/4" NPT (F)
	155LX-200		350	10~200	3/4" NPT (F)	3/4" NPT (F)
	155LY-15	ACETYLENE	350	2~15	3/4" NPT (F)	3/4" NPT (F)
	155LF-125	LPG	350	5~120	3/4" NPT (F)	3/4" NPT (F)
	155LIN-80	Ar, He, N_2	350	3~80	3/4" NPT (F)	3/4" NPT (F)
	155LIN-125		350	5~120	3/4" NPT (F)	3/4" NPT (F)
	155LIN-200		350	10~200	3/4" NPT (F)	3/4" NPT (F)
	155LQ-80	AIR	350	3~80	3/4" NPT (F)	3/4" NPT (F)
	155LQ-125		350	5~120	3/4" NPT (F)	3/4" NPT (F)
	155LQ-200		350	10~200	3/4" NPT (F)	3/4" NPT (F)
	155LC-125	CO_2	350	5~120	3/4" NPT (F)	3/4" NPT (F)
152L SERIES	152LX-125	OXYGEN	350	5~120	1/4" NPT (F)	1/4" NPT (F)
	152LY-15	ACETYLENE	350	2~15	1/4" NPT (F)	1/4" NPT (F)
	152LF-80	LPG	350	3~80	1/4" NPT (F)	1/4" NPT (F)
	152LIN-125	Ar, He, N_2	350	5~120	1/4" NPT (F)	1/4" NPT (F)
	152LQ-125	AIR	350	5~120	1/4" NPT (F)	1/4" NPT (F)
	152LC-125	CO_2	350	5~120	1/4" NPT (F)	1/4" NPT (F)
853L SERIES	853LX-125	OXYGEN	350	5~120	1/4" NPT (F)	1/4" NPT (F)
	853LY-15	ACETYLENE	350	2~15	1/4" NPT (F)	1/4" NPT (F)
	853LF-80	LPG	350	3~80	1/4" NPT (F)	1/4" NPT (F)
	853LF-125		350	5~120	1/4" NPT (F)	1/4" NPT (F)
	853LIN-125	Ar, He, N_2	350	5~120	1/4" NPT (F)	1/4" NPT (F)
	853LQ-125	AIR	350	5~120	1/4" NPT (F)	1/4" NPT (F)
	853LC-125	CO_2	350	5~120	1/4" NPT (F)	1/4" NPT (F)
152S SERIES	152SX-40	OXYGEN	200	2~40	7/8-14 RH (F)	9/16-18 RH (M)
	152SX-80		200	4~80	7/8-14 RH (F)	9/16-18 RH (M)
	152SX-125		200	5~125	7/8-14 RH (F)	9/16-18 RH (M)
	152SY-15	ACETYLENE	200	2~15	7/8-14 LH (F)	9/16-18 LH (M)
	152SF-80	LPG	200	4~80	7/8-14 LH (F)	9/16-18 LH (M)
	152SF-125		200	5~125	7/8-14 LH (F)	9/16-18 LH (M)
	152SIN-40	AIR INERT GAS	200	2~40	7/8-14 RH (M)	5/8-18 RH (F)
	152SIN-80		200	4~80	7/8-14 RH (M)	5/8-18 RH (F)
	152SIN-125		200	5~125	7/8-14 RH (M)	5/8-18 RH (F)
	152SIN-40FG	CO_2	200	0~40 SCFH	7/8-14 RH (M)	5/8-18 RH (F)
853S SERIES	853SF-80	LPG	200	4~80	7/8-14 LH (F)	9/16-18 LH (M)
	853SX-40	OXYGEN	200	2~40	7/8-14 RH (F)	9/16-18 RH (M)
	853SX-80		200	4~80	7/8-14 RH (F)	9/16-18 RH (M)
	853SX-125		200	5~125	7/8-14 RH (F)	9/16-18 RH (M)
	853SY-15	ACETYLENE	200	2~15	7/8-14 LH (F)	9/16-18 LH (M)
853SR SERIES	853SRF-80	LPG	200	4~80	7/8-14 LH (F)	9/16-18 LH (M)
	853SRIN-80	INERT GAS	200	4~80	7/8-14 RH (F)	5/8-18 RH (F)
	853SRIN-125	CO_2	200	5~125	7/8-14 RH (F)	5/8-18 RH (F)
	853SRX-80	OXYGEN	200	4~80	7/8-14 RH (F)	9/16-18 RH (M)
	853SRX-125		200	5~125	7/8-14 RH (F)	9/16-18 RH (M)
	853SRY-15	ACETYLENE	200	2~15	7/8-14 LH (F)	9/16-18 LH (M)
155S SERIES	155SF-80	LPG	350	4~80	1-11 1/2 NPS LH (F)	7/8-14 LH (M)
	155SX-125	OXYGEN, INERT GAS, CO_2	350	5~125	1-11 1/2 NPS RH (F)	7/8-14 RH (M)
	155SY-15	ACETYLENE	350	2~15	1-11 1/2 NPS LH (F)	7/8-14 LH (M)



155L Series



152S Series



853S Series

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 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 PSIG, 300 PSIG Models are also available.
- ❑ Evaporization Rate: Up to 3% per day will vent to atmosphere.
- ❑ Temperature: Vapoing 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:

❑ (250 CF/Cylinder) less 20 CF Left in Cylinder due to auto changeover leaves 230 CF/Cylinder. 250 CF if its a manual changeocver system.

(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

$$\frac{728\ \text{CF/Day}}{230\ \text{CF/Cylinder}} = 3.16\ \text{Cylinders/Day}$$

$$\frac{12\ \text{Cylinders per Header}}{3.16\ \text{Cylinders/Day}} = 3.8\ \text{Days per Header x 2 Headers =}$$

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.

MANIFOLD SYSTEMS

- Dual Manifold Systems
- Single-Side Manifold Systems
- Single Manifold Systems
- Semi-Automatic Manifold Systems
- Automatic Manifold Systems
- Digital Automatic Manifold System
- Semi-Automatic Manifold Systems For Liquid Vessel
- Semi-Automatic Manifold Systems For Dual Liquid Vessel
- Accessories

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