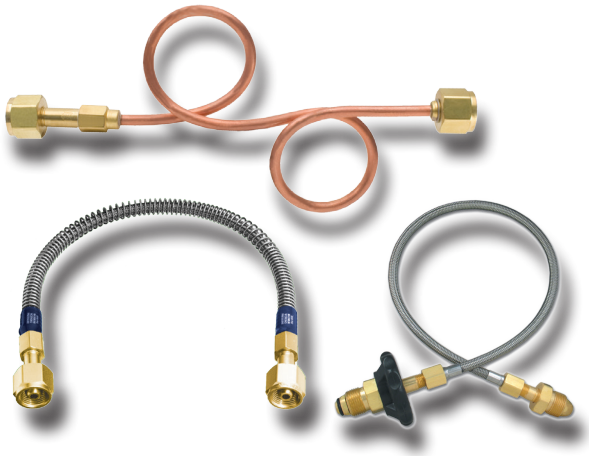
Superior Products

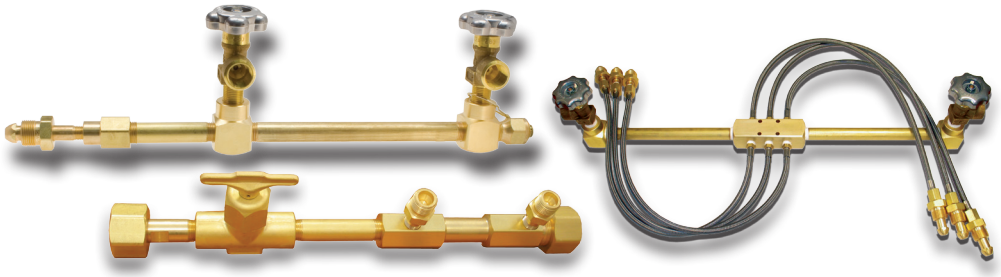
Redefining Gas Management Systems

CATALOG #18B

Brass & Stainless Steel Gas Fittings & Assemblies



Flexible & Rigid Pigtails



Manifolds & Gas Management Systems

Industrial

Hospital

Specialty

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Proud Member of :

PMPA Precision Machined Products Association
CGA Compressed Gas Association
The Standard For Safety Since 1913
IOMA
GAWDA GASES AND WELDING DISTRIBUTORS ASSOCIATION
AWS
WEMCO

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Superior Products, LLC. has made every effort to publish the most helpful and comprehensive catalog of compressed gas products available. With safety and accurate product specification as top priorities, our product descriptions include information on sizes, operating pressures, application, construction materials, CGA numbers, and all other relevant information.

CGA numbers identify products intended for specific gas services. All Superior Products fittings are manufactured to Compressed Gas Association standards.

In addition to CGA numbers, many popular fittings are commonly referred to as **"A", "B", "C", and "D"** sized fittings . For your convenience, these letter identifications are also included in our product descriptions as **"A"**, **"B"**, **"C"**, and **"D"**. **Pressure ratings** on A, B, C, and D sized fittings included on these pages are limited by the CGA to 200 PSI (1400 kPa) maximum working pressure. Kilopascals (kPa) are the metric equivalent of Pounds Per Square Inch (PSI).

gas acronyms used

(not all standard)

CGA	Compressed Gas Association		**RH**	Right Handed	
NGO	National Gas Outlet		**LH**	Left Handed	
NPT	National Pipe Thread		**WT**	Wrench Tight	
UNS	Unified Numbering System		**HT**	Hand Tight	
PSI	Pounds per Square Inch		**QC**	Quick Connect	
EXT	External	(**M** - Male Thread)	**CP**	Chrome Plated	
INT	Internal	(**F** - Female Thread)	**ID**	Inside Diameter	
CS	Countersunk		**OD**	Outside Diameter	

metric conversion — PSI to kPa to Bar

The following conversions are used throughout this catalog, rounded off for ease of use. Kilopascals & Bar conversions are provided whenever possible.**(1 PSI = 6.89 kPa = .07 Bar**

200 PSI = 1379 kPa = 14 Bar	3000 PSI = 20685 kPa = 207 Bar
400 PSI = 2758 kPa = 28 Bar	4500 PSI = 27580 kPa = 310 Bar
500 PSI = 3400 kPa = 35 Bar	5500 PSI = 37920 kPa = 380 Bar
1000 PSI = 6895 kPa = 70 Bar	6000 PSI = 41370 kPa = 414 Bar

maximum gas withdrawal rates for liquified gases

CRYOGENIC CYLINDERS

CO_2 - 110 SCFH

NITROUS OXIDE - 80 SCFH

ARGON, NITROGEN, OXYGEN - 75 SCFH

HIGH PRESSURE W/LIMITED WITHDRAWAL RATE

CO_2 50 - SCFH

NITROUS OXIDE - 50 SCFH

Acetylene - 1/10 CYL CAPACITY/HOUR

part type	letter prefix
Adaptors - Outlet	**A**
Bushings - Pipe	**B**
Brass Tubing	**BT**
Cable Connectors	**CN**
Check Valves	**CV**
Couplers - Tees	**C**
Copper Tubing	**CT**
Crimping Tools	**KT**
Dust Caps & Chain	**CC**
Elbow	**EL**
Cryogenic Elbow	**CEL**
Cryogenic Flexible Hose	**CHF**
Cryo Hand Tight with Elbow	**CHTE**
Cryogenic Phase Separator	**CPS**
Check Valves	**CV**
Filters	**F**
Flare Adaptors	**FA**
Flash Back Arrestor	**FA**
Gas Manifold Assemblies	**GMA**
Gas Manifold Fittings	**GMF**
Hand Tight Cyrogenic	**HTC**
Hand Tight Nuts	**HTN**
Hose Repair Kits	**RK**
Manifold Blocks	**MB**
Chrome Nuts	**MN**
Chrome Nipples	**MNP**
Leak Detector	**LD**
Nipples	**NP**
Nuts	**N**
NPT Male	**MNPT**
NPT Female	**FNPT**
'O' Rings	**OR**
Pigtails Rigid	**PT**
Pigtails Flexible	**PTF**
Plastic Tips	**T**
Plugs & Chains	**PC**
Power Cable Holders	**PCH**
Reverse Flow Check Valve	**RCV**
Splicers	**S**
Stainless Steel	**SS**
Snap Rings	**XSR**
Valves	**V**
Washers	**W**
"Y" Connectors	**Y**
"Y"' Connectors with Valves	**YV**

GUIDE TO CGA HOSE CONNECTIONS

The Compressed Gas Association (CGA) uses CGA numbers to identify connections for specific gas service. All Superior Products hose fittings are manufactured to CGA standards as defined in CGA E-1 “Standard Connections for Regulator Outlets, Torches and Fitted Hose for Welding and Cutting Equipment”.

Many common fittings are referred to as A-Size, B-Size, C-Size and D-Size. This letter indentification system, developed by the International Acetylene Asscociation (IAA), predates the CGA numbering system and is still used today.

CGA limits pressure ratings on E-1 connections to a standard maximum working pressure of 200 PSIG (1380 kPa) for safety.

A-B-C-D Sizes for Oxygen/Fuel Gas

A-Size: 3/8”-24 UNF
RH Connection: CGA-020 for Oxygen
LH Connection: CGA-021 for Fuel Gas

B-Size: 9/16”-18 UNF
RH Connection: CGA-022 for Oxygen
LH Connection: CGA-023 for Fuel Gas

C-Size: 7/8”-14 UNF
RH Connection: CGA-024for Oxygen
LH Connection: CGA-025 for Fuel Gas

D-Size: 1-1/4”-12 UNF
RH Connection: CGA-026 for Oxygen
LH Connection: CGA-027 for Fuel Gas

A-B-C-D Sizes for Gas/Water/Air

A-Size: 3/8”-24 UNF
RH Connection: CGA-030 for Inert Gases
LH Connection: CGA-031 for Water & Industrial Air

B-Size: 5/8”-18 UNF
RH Connection: CGA-032 for Inert Gases
LH Connection: CGA-033 for Water & Industrial Air

C-Size: 7/8”-14 UNF
RH Connection: CGA-034 for Inert Gases
LH Connection: CGA-035 for Water & Industrial Air

D-Size: 1-1/4”-12 UNF
RH Connection: CGA-036 for Inert Gases
LH Connection: CGA-037 for Water & Industrial Air

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brass hose nuts, nipples & splicers

Hose Nuts

200 PSI

Oxygen

N-20

Thread Size	CGA	Part No.
"A" 3/8"-24-RH	020	**N-10**
"B" 9/16"-18-RH	022	**N-20**
Railroad 41/64"-18-RH	028	**N-30**
"C" 7/8"-14-RH	024	**N-34**
"D" 1-1/4"-12-RH	026	**N-42**

Hose Nuts

200 PSI

Fuel Gas

N-21

Thread Size	CGA	Part No.
"A" 3/8"-24-LH	021	**N-11**
"B" 9/16"-18-LH	023	**N-21**
Railroad 41/64"-18-LH	029	**N-31**
"C" 7/8"-14-LH	025	**N-35**
"D" 1-1/4"-12-LH	027	**N-43**

Barb Hose Nipples

200 PSI

NP-10

Size/Length	For Hose Size	Part No.
"A", 1-7/32"	3/16" I.D.	**NP-4**
"B", 3-1/32"	1/8"-5/32" I.D.	**NP-5**
"B", 1-7/16"	3/16" I.D.	**NP-6**
"B", 1-7/16"(with 'O'Ring)	3/16" I.D.	**NP-6W**
"B", 1-7/16"	1/4" I.D.	**NP-10**
"B", 1-7/16"(with 'O'Ring)	1/4" I.D.	**NP-10W**
"B", 1-1/8"	1/4"-9/32" I.D.	**NP-65**
"B", 1-7/16"	5/16" I.D.	**NP-14**
"B", 1-7/16"	3/8" I.D.	**NP-18**
"B", 1-3/4"	3/8" I.D.	**NP-20**
"C", 1-35/64"	1/4" I.D.	**NP-12**
"C", 2"	3/8" I.D.	**NP-24**
"C", 2-1/4"	1/2" I.D.	**NP-28**
"C", 4-9/16"	1/2" I.D.	**NP-30**
"D", 2-1/2"	1/2" I.D.	**NP-34**
"D", 3-1/2"	3/4" I.D.	**NP-36**
'O'Ring for NP-6W & NP-10W		**XOR-002**

Spiral Hose Nipples

200 PSI

NP-46

Size/Length	For Hose Size	Part No.
"A", 1-1/4"	3/16" I.D.	**NP-40**
"B", 1-5/16"	3/16" I.D.	**NP-42**
"B", 1-19/32"	1/4" I.D.	**NP-46**
"B", 1-5/8"	3/8" I.D.	**NP-54**

Nipples With Threads- "B", "C" & "D" Size

NP-605

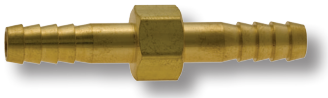
Size/Length	Thread size	Part No.
"B", 1"	1/8" MNPT	**NP-595**
"B", 1-1/2"	1/8" MNPT	**NP-596**
"C", 2"	1/4" MNPT	**NP-605***
"C", 2-1/2"	1/4" MNPT	**NP-606***
"D", 2-1/2"	1/2" MNPT	**NP-640**

*To order with filter, add suffix "RF"

Hose Splicers

200 PSI

Barb Hexagon Center Stop



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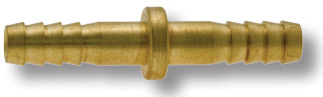
For Hose Size	Part No.
3/16" I.D.	**S-233**
1/4" I.D.	**S-244**
5/16" I.D.	**S-255**
3/8" I.D.	**S-266**

Barb Round Center Stop



S-344

For Hose Size	Part No.
3/16" I.D.	**S-333**
1/4" I.D.	**S-344**
5/16"I.D.	**S-355**
3/8" I.D.	**S-366**
1/2" I.D.	**S-388**

200 PSI

Spiral Hexagon Center Stop

S-544

For Hose Size	Part No.
1/4" I.D.	**S-544**

Barb No Center Stop

S-444

For Hose Size	Part No.
3/16" I.D.	**S-433**
1/4" I.D.	**S-444**
3/8" I.D.	**S-466**

Brass Thread To Hose Barb Adaptor

200 PSI

Male NPT Thread

A-113

Thread Size	For Hose Size	Part No.
1/8” MNPT	1/8” I.D.	**A-101**
1/8” MNPT	3/16” I.D.	**A-102**
1/8” MNPT	1/4” I.D.	**A-103**
1/8” MNPT	3/8” I.D.	**A-105**
1/4” MNPT	1/8” I.D.	**A-111**
1/4” MNPT	3/16” I.D.	**A-112**
1/4” MNPT	1/4” I.D.	**A-113**
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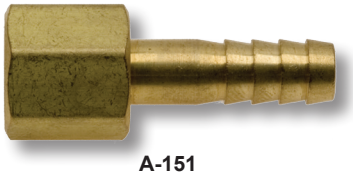
Female NPT Thread Thread



A-151

1/8” FNPT	1/8” I.D.	**A-151**
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1/8” FNPT	1/4” I.D.	**A-153**
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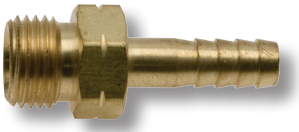
Hose Barb Adaptors

200 PSI

(Standard B Thread)



A-51

Thread Size	For Hose Size	Part No.
Oxygen“B” 9/16”-18-RH-EXT	3/16” I.D.	**A-50**
Fuel Gas“B” 9/16”-18-LH-EXT	3/16” I.D.	**A-51**
Oxygen“B” 9/16”-18-RH-EXT	1/4” I.D.	**A-60**
Fuel Gas “B” 9/16”-18-LH-EXT	1/4” I.D.	**A-61**

Hose Adaptors

200 PSI

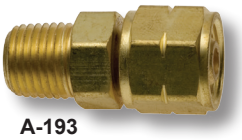
Swivel Nut to Hose Barb Adaptors

A-254

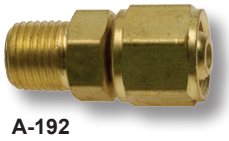
Thread Size	For Hose Size	Part No.
Oxygen “A” 3/8”-24-RH-INT	1/4” I.D. Hose	**A-250**
Fuel Gas “A” 3/8”-24 LH-INT	1/4” I.D. Hose	**A-251**
Oxygen “B” 9/16”-18 -RH-INT	1/4” I.D. Hose	**A-254**
Fuel Gas “B” 9/16”-18 -LH-INT	1/4” I.D. Hose	**A-255**

Swivel Nut Adaptors

200 PSI



A-193

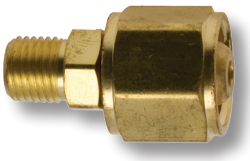


A-192

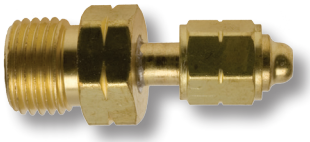
Thread Size	Hose Connection	Part No.
1/4” MNPT	“B” 9/16”-18-RH-INT	**A-192**
1/4” MNPT	“B” 9/16”-18-LH-INT	**A-193**

External Hose Nut to Swivel Nut and Nipple

200 PSI



A-300



A-307

Oxygen

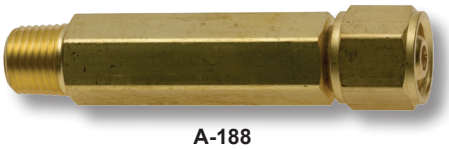
Thread Size	Thread Size	Part No.
"A" 3/8"-24-RH-EXT	"B" 9/16"-18-RH-INT	**A-300**
"B" 9/16"-18-RH-EXT	"A" 3/8"-24-RH-INT	**A-306**
"B" 9/16"-18-RH-EXT	"C" 7/8"-14-RH-INT	**A-308**

Fuel Gas

Thread Size	Thread Size	Part No.
"A" 3/8"-24-LH-EXT	"B" 9/16"-18-LH-INT	**A-301**
"B" 9/16"-18-LH-EXT	"A" 3/8"-24-LH-INT	**A-307**

Pipe Thread to Swivel Nut and Nipple 2-1/2"

200 PSI



A-188

Oxygen

Thread Size	Thread Size	Part No.
1/4" MNPT	"B" 9/16"-18-RH-INT	**A-188**

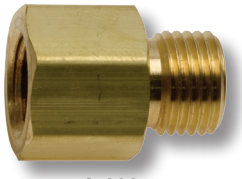
Fuel Gas

Thread Size	Thread Size	Part No.
1/4" MNPT	"B" 9/16"-18-LH-INT	**A-189**

Female Pipe Thread to "B" Connections

200 PSI

FNPT →



EXT Hose "B" Coupler

A-238

Oxygen

Thread Size	Thread Size	Part No.
1/8" FNPT	"B" 9/16"-18-RH-EXT	**A-238**
1/4" FNPT	"B" 9/16"-18-RH-EXT	**A-242**

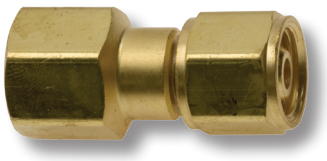
Fuel Gas

Thread Size	Thread Size	Part No.
1/4" FNPT	"B" 9/16"-18-LH-EXT	**A-243**

Female NPT to Internal Swivel Nut

200 PSI

FNPT →



INT Hose "B" Swivel Nut

A-228

Oxygen

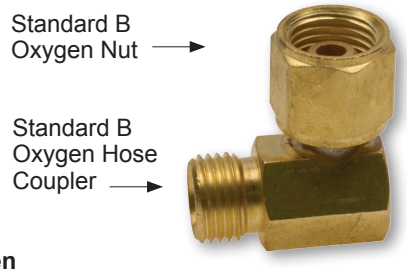
Thread Size	Thread Size	Part No.
1/4" FNPT	"B" 9/16"-18-RH-INT	**A-228**

Fuel Gas

Thread Size	Thread Size	Part No.
1/4" FNPT	"B" 9/16"-18-LH-INT	**A-229**

90° External Hose Coupler to Internal Swivel Nut

200 PSI



A-322

Oxygen

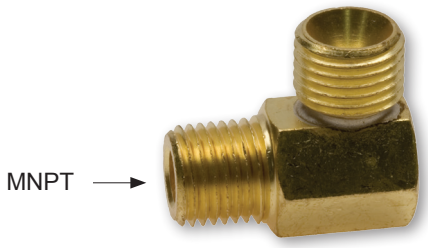
Thread Size	Thread Size	Part No.
"B" 9/16"-18-RH-EXT	"B" 9/16"-18-RH-INT	**A-322**
1/4" MNPT	"B" 9/16"-18-RH-INT	**A-194**

Fuel Gas

Thread Size	Thread Size	Part No.
"B" 9/16"-18-LH-EXT	"B" 9/16"-18-LH-INT	**A-323**

90° External Pipe to External "B" coupler

200 PSI



A-334

Oxygen

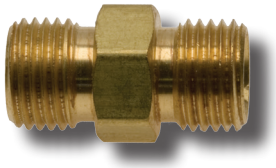
Thread Size	Thread Size	Part No.
1/4" MNPT	"B" 9/16"-18-RH-EXT	**A-334**

Fuel Gas

Thread Size	Thread Size	Part No.
1/4" MNPT	"B" 9/16"-18-LH-EXT	**A-335**

Hose Couplers (Brass)

200 PSI



C-50

Oxygen

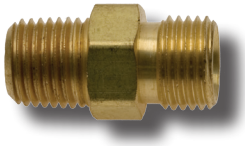
Thread Size	Thread Size	Part No.
"A" 3/8"-24-RH-EXT	"A" 3/8"-24-RH-EXT	**C-10**
"B" 9/16"-18-RH-EXT	"A" 3/8"-24-RH-EXT	**C-20**
"B" 9/16"-18-RH-EXT	"B" 9/16"-18-RH-EXT	**C-50**
"C" 7/8"-14-RH-EXT	"C" 7/8"-14-RH-EXT	**C-80**
"D" 1-1/4" - 12-RH-EXT	"D" 1-1/4" - 12-RH-EXT	**C-90**

Fuel Gas

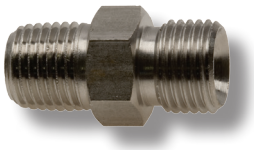
Thread Size	Thread Size	Part No.
"A" 3/8"-24LH-EXT	"A" 3/8"-24-LH-EXT	**C-11**
"B" 9/16"-18LH-EXT	"A" 3/8"-24-LH-EXT	**C-21**
"B" 9/16"-18LH-EXT	"B" 9/16"-18-LH-EXT	**C-51**
"C" 7/8"-14-LH-EXT	"C" 7/8"-14-LH-EXT	**C-81**
"D" 1-1/4" - 12-LH-EXT	"D" 1-1/4" - 12-LH-EXT	**C-91**

Regulator Outlet Adaptors

200 PSI



B-28



B-28SS

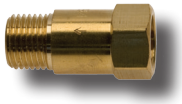
Oxygen

Thread Size	Thread Size	Part No.
1/8" MNPT	"A" 3/8"-24-RH-EXT	**B-6**
1/8" MNPT	"B" 9/16"-18-RH-EXT	**B-8**
1/4" MNPT	"A" 3/8"-24-RH-EXT	**B-26**
1/4" MNPT	"B" 9/16"-18-RH-EXT	**B-28**
1/4" MNPT	"B" 9/16"-18-RH-EXT	**B-28SS**
3/8" MNPT	"B" 9/16"-18-RH-EXT	**B-50**
1/2" MNPT	"C" 7/8"-14-RH-EXT	**B-66**
1/2" MNPT	"D" 1-1/4" - 12-RH-EXT	**B-72**
3/4" MNPT	"D" 1-1/4" - 12-RH-EXT	**B-74**

Fuel Gas

Thread Size	Thread Size	Part No.
1/8" MNPT	"A" 3/8"-24-LH-EXT	**B-7**
1/8" MNPT	"B" 9/16"-18-LH-EXT	**B-9**
1/4" MNPT	"A" 3/8"-24-LH-EXT	**B-27**
1/4" MNPT	"B" 9/16"-18-LH-EXT	**B-29**
3/8" MNPT	"B" 9/16"-18-LH-EXT	**B-51**
1/2" MNPT	"C" 7/8"-14-LH-EXT	**B-67**

Check Valves

	Inlet	Flow	Outlet	Part No.
Torch Type Check Valve				200 PSI
 CV-10R	Oxygen “A” 3/8”-24-RH-EXT	—>	“A” 3/8”-24-RH-INT	**CV-10R**
	Fuel Gas “A” 3/8”-24-LH-EXT	—>	“A” 3/8”-24-LH-INT	**CV-11L**
B-Size One Piece Torch Type				200 PSI
CV-20R	Oxygen “B” 9/16”-18-RH-EXT	—>	“B” 9/16”-18-RH-INT	**CV-20R**
	Fuel “B” 9/16”-18-LH-EXT	—>	“B” 9/16”-18-LH-INT	**CV-21L**
Regulator Bushing Adaptor Type				200 PSI
	Oxygen “B” 9/16”-RH-INT	—>	“B” 9/16”-18-RH-EXT	**CV-128R**
CV-128R	Fuel Gas“B” 9/16”-LH-INT	—>	“B” 9/16”-18-LH-EXT	**CV-129L**
	1/4” MNPT	—>	“B” 9/16”-18-RH-EXT	**CV-28R**
	1/4” MNPT	—>	“B” 9/16”-18-LH-INT	**CV-29L**
Low Pressure Inline Check Valves				200 PSI
	1/4” MNPT	—>	1/4” MNPT	**CV-24**
CV-25	1/4” MNPT	—>	1/4” FNPT	**CV-25**
	1/4” FNPT	—>	1/4” FNPT	**CV-26**
High Pressure Inline Check Valves				3000 PSI
	1/4” MNPT	—>	1/4” MNPT	**CV-215**
CV-230	1/4” MNPT	—>	1/4” FNPT	**CV-219**
	1/4” FNPT	—>	1/4” FNPT	**CV-229**
	1/4” FNPT	—>	1/4” MNPT	**CV-230**
Stainless Steel Inline Check Valves				6000 PSI
	1/4” MNPT	—>	1/4” MNPT	**CV-215SS**
CV-219SS	1/4” MNPT	—>	1/4” FNPT	**CV-219SS**
	1/4” FNPT	—>	1/4” FNPT	**CV-229SS**
	1/4” FNPT	—>	1/4” MNPT	**CV-230SS**

flash arrestors

- Designed for "B" size torch, regulator and hose connections
- Built-in check valve prevents reverse flow of gas
- Stainless steel sintered element stops multiple flashes (no resetting required)
- U/L Listed
- Purchase as POP display pack or as individual units
- High Flow Capacity
- 2 PSI is minimum pressure for gas to flow
- 1750 SCFH @ 125 psi

*Always leak test system before pressurizing
*Always bleed the system before disconnecting

200 PSI

Description	Part No.
Oxygen/Fuel Gas Set, Regulator Style, POP Display	**FBK-100**
Oxygen/Fuel Gas Set, Torch Style, POP Display	**FBK-200**
Individual Oxygen Arrestor, Regulator Style	**FB-122**
Individual Fuel Gas Arrestor, Regulator Style	**FB-123**
Individual Oxygen Arrestor, Torch Style	**FB-222**
Individual Fuel Gas Arrestor, Torch Style	**FB-223**

quick connectors

- Durable brass coupling pin
- Designed for "B" torch and hose fittings
- Design guided by ISO 7289 safety standards
- Gas specific oxygen and fuel connectors prevent cross connection
- Built-in automatic gas cut-offs shut down upstream gases when disconnected

*Always leak test system before pressurizing

*Always bleed the system before disconnecting

Oxygen: 200 PSI Max Fuel Gas: 50 PSI Max

Description	Part No.
Oxygen & Fuel Gas Set, Torch Style, POP Display	**QCT-100**
Oxygen Set, Torch Style	**QCT-112**
Fuel Gas Set, Torch Style	**QCT-113**
Oxygen & Fuel Gas Set, Regulator Style, POP Display	**QCR-200**
Oxygen Set, Regulator Style	**QCR-222**
Fuel Gas Set, Regulator Style	**QCR-223**
Oxygen & Fuel Gas Set, Hose Style, POP Display	**QCH-300**
Oxygen Set, Hose Style	**QCH-332**
Fuel Gas Set, Hose Style	**QCH-333**
Replacement Pins for Above Parts:	**Part No.**
Male Pin, Oxygen, Torch Style, 9/16-18 RH-INT	**QCT-112-PIN**
Male Pin, Fuel Gas, Torch Style, 9/16-18 LH-INT	**QCT-113-PIN**
Male Pin, Oxygen, Regulator Style, 9/16-18 RH-INT	**QCT-222-PIN**
Male Pin, Fuel Gas, Regulator Style, 9/16-18 LH-INT	**QCT-223-PIN**
Male Pin, Oxygen, Hose Style, 9/16-18 RH-EXT	**QCH-332-PIN**
Male Pin, Fuel Gas, Hose Style, 9/16-18 LH-EXT	**QCH-333-PIN**

Superior Products is dedicated to providing solutions for all parts of your business: from the innovative product lines we manufacture, to the new technology we offer as a business solutions partner.

Our start-to-finish solutions include design and engineering, manufacturing, reliable customer service and logistical support.

MADE TO ORDER (MTO)

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Our online Customer Managements System allows you to easily manage your supply chain with around the clock access to:

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- Shipment tracking
- Procurement planning
- Inventory management
- Quotes
- Orders
- Invoices
- Part specifications
- Quality Control
- Account information

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Superior Products realizes that not all standard parts work for all applications. We can manufacture parts to your specifications or help you design a part to meet your application.

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- Work within challenging space constraints
- Manage gas usage
- Provide the most effective layout
- Better meet the application's overall needs

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Superior Products offers a number of logistics solutions for order and inventory needs.

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- A Kanban system can be implemented to ensure you have the necessary parts on hand.

QUALITY

Beyond our ISO 9001 registration, all of our employees and S.P. teams they support have committed themselves to delivering the highest quality products in the compressed gas industry. Our Superior Products Quality Teams are committed to quality. If it has the sp/qt Superior Products Quality Team logo on it you can be assured it is the best.

ISO 9001 REGISTERED FIRM

sp/qt Superior Products Quality Team

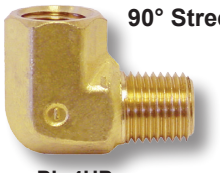
Brass: Maximum Pressure 3,000 PSI
Stainless Steel (SS): Maximum Pressure 6,000 PSI

Brass/Stainless Steel Pipe Thread Fittings

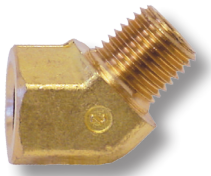
	Thread Size	Material	Part No.
90° Elbow	1/8” FNPT x 1/8” FNPT	Brass	**PEL-2HP**
	1/4” FNPT x 1/4” FNPT	Brass	**PEL-4HP**
	1/2” FNPT x 1/2” FNPT	Brass	**PEL-8HP**
	1/4” FNPT x 1/4” FNPT	SS	**PEL-4SS**
90° Street Elbow	1/8” FNPT x 1/8” MNPT	Brass	**PL-2HP**
	1/4” FNPT x 1/4” MNPT	Brass	**PL-4HP**
	3/8” FNPT x 3/8” MNPT	Brass	**PL-6HP**
	1/2” FNPT x 1/2” MNPT	Brass	**PL-8HP**
	1/4” FNPT x 1/4” MNPT	SS	**PL-4SS**
45° Street Elbow	1/8” FNPT x 1/8” MNPT	Brass	**PSL-2-2HP**
	1/4” FNPT x 1/4” MNPT	Brass	**PSL-4-4HP**
	1/4” FNPT x 1/4” MNPT	SS	**PSL-4SS**
Cap	1/8” FNPT	Brass	**P-52**
	1/4” FNPT	Brass	**P-54**
	3/8” FNPT	Brass	**P-56**
	1/2” FNPT	Brass	**P-58**
Tee	1/8” FNPT (3)	Brass	**PFT-2HP**
	1/4” FNPT (3)	Brass	**PFT-4HP**
	1/2” FNPT (3)	Brass	**PFT-8HP**
	1/4” FNPT (3)	SS	**PFT-4SS**
Street Tee	1/8” FNPT (2) x 1/8” MNPT	Brass	**PST-2HP**
	1/4” FNPT (2) x 1/4” MNPT	Brass	**PST-4HP**
Cross	1/8” FNPT (4)	Brass	**PCR-2HP**
	1/4” FNPT (4)	Brass	**PCR-4HP**
	1/4” FNPT (4)	SS	**PCR-4SS**

PEL-4HP

PEL-4SS

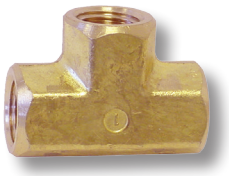

PL-4HP

PL-4SS

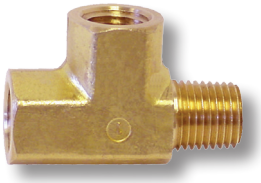

PSL-4-4HP

PSL-4SS

P-54


PFT-4HP

PFT-4SS


PST-4HP

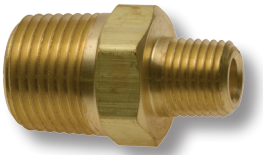
PCR-4HP

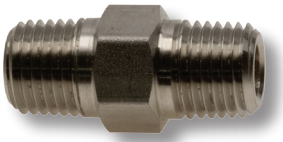
PCR-4SS

Brass/Stainless Steel Pipe Thread Fittings

Brass: Maximum Pressure 3,000 PSI
Stainless Steel (SS): Maximum Pressure 6,000 PSI

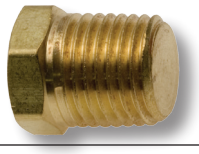
Hex Brass Nipples


B-241


B-215SS

Thread Size	Material	Part No.
1/8” MNPT x 1/8” MNPT	Brass	**B-200**
1/4” MNPT x 1/8” MNPT	Brass	**B-206**
1/4” MNPT x 1/4” MNPT	Brass	**B-215**
1/4” MNPT x 1/4” MNPT	SS	**B-215SS**
3/8” MNPT x 3/8” MNPT	Brass	**B-222**
3/8” MNPT x 1/4” MNPT	Brass	**B-239**
1/2” MNPT x 1/4” MNPT	Brass	**B-241**
1/2” MNPT x 3/8” MNPT	Brass	**B-242**
1/2” MNPT x 1/2” MNPT	Brass	**B-243**
3/4” MNPT x 3/4” MNPT	Brass	**B-247**

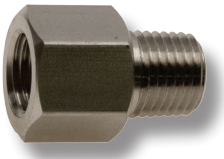
Hex Head Plug

P-4


1/8” MNPT	Brass	**P-2**
1/4” MNPT	Brass	**P-4**
1/2” MNPT	Brass	**P-8**

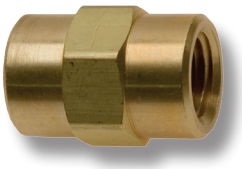
Adaptors

B-219


B-219SS

1/4” FNPT x 1/4” MNPT	Brass	**B-219**
1/4” FNPT x 1/4” MNPT	SS	**B-219SS**
1/8” FNPT x 1/8” MNPT	Brass	**B-293**
1/4” FNPT x 1/8” MNPT	Brass	**B-294**
3/8” FNPT x 1/4” MNPT	Brass	**B-296**
1/2” FNPT x 1/4” MNPT	Brass	**B-299**
1/4” FNPT x 3/4” MNPT	Brass	**B-286**
3/4” FNPT x 1/2” MNPT	Brass	**B-303**

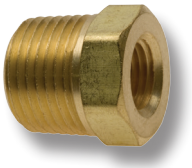
Connectors


B-218

B-218SS

1/8” FNPT x 1/8” FNPT	Brass	**B-201**
1/4” FNPT x 1/8” FNPT	Brass	**B-207**
1/4” FNPT x 1/4” FNPT	Brass	**B-218**
1/4” FNPT x 1/4” FNPT	SS	**B-218SS**
1/2” FNPT x 1/4” FNPT	Brass	**B-231**
1/2” FNPT x 1/2” FNPT	Brass	**B-233**
3/4” FNPT x 1/2” FNPT	Brass	**B-234**
3/4” FNPT X 3/4” FNPT	Brass	**B-236**

Reducer Bushing

B-284


1/4” MNPT x 1/8” FNPT	Brass	**B-280**
3/8” MNPT x 1/4” FNPT	Brass	**B-282**
1/2” MNPT x 1/4” FNPT	Brass	**B-284**
1/2” MNPT x 3/8” FNPT	Brass	**B-285**
3/4” MNPT x 1/4” FNPT	Brass	**B-286**
3/4” MNPT x 1/2” FNPT	Brass	**B-288**

Round Brass Nipples

PNP-4-25

1/8” MNPT, 1.5” Long	Brass	**PNP-2-15**
1/4” MNPT, 1.5” Long	Brass	**PNP-4-15**
1/4” MNPT, 2.0” Long	Brass	**PNP-4-20**
1/4” MNPT, 2.5” Long	Brass	**PNP-4-25**
1/4” MNPT, 3.0” Long	Brass	**PNP-4-30**
1/4” MNPT, 3.5” Long	Brass	**PNP-4-35**

Pipe Extension

B-430

1/8” FNPT x1/8” MNPT, 2.5” Long	Brass	**B-395**
1/4” FNPT x 1/4”MNPT, 3.0” Long	Brass	**B-430-3**
1/4” FNPT x 1/4”MNPT, 4.0” Long	Brass	**B-430-4**
1/4” FNPT x 1/4”MNPT, 6.0” Long	Brass	**B-430-6**
1/4” FNPT x 1/4”MNPT, 3.0” Long	SS	**B-430-3SS**

Round Brass Hose Ferrules

Standard Package: **25**

Diameter(INT)	Length	Part No.
.330”	1/2”	**6231**
.358”	1/2”	**833**
.380”	1/2”	**622**
.410”	1/2”	**620**
.450”	9/16”	**769**
.478”	11/16”	**4750**
.500”	1/2”	**624**
.500”	1”	**7322**
.525”	1”	**7323**
.525”	1/2”	**625**
.531”	1”	**7324**
.548”	31/64”	**626**
.562”	1”	**7325**
.564”	3/4”	**3588**
.575”	31/64”	**KK**
.593”	1”	**7326**
.600”	1/2”	**JJ**
.625”	1/2”	**II**
.625”	1”	**7327**
.650”	1/2”	**HH**
.656”	1”	**7328**
.675”	33/64”	**GG**
.687”	1”	**7329**
.700”	33/64”	**FF**
.718”	1”	**7330**
.725”	17/32”	**EE**
.750”	17/32”	**DD**
.750”	1”	**7331**
.781”	1”	**7332**
.812”	1”	**7333**
.850”	9/16”	**Z**
.875”	27/32”	**7244A**
.900”	27/32”	**5029A**
.937”	27/32”	**7242A**
.975”	27/32”	**5028A**

NOTE: Hose diameters may vary, match the O.D. of hose with the I.D. of ferrule. Include any hose barb expansion.

Oval Brass Dual Hose Braces

Dimension(INT)	Length	Metal Gauge	Part No.
.448 x .890	15/32”	.019”	**9116**
.474 x .943	15/32”	.019”	**9979**
.535 x 1.071	3/4”	.024”	**9940P**
.593 x 1.109	3/4”	.024”	**9593**
.593 x 1.238	3/4”	.025”	**453**
.700 x 1.325	3/4”	.025”	**454**

Gas Leak Detector, Oxygen Safe

Description	Part No.
8 oz. Reusable Plastic Applicators	**LD-008**
1 Gallon Container for Refilling Applicators	**LD-128**

REPAIR KITS:
Hose Connections, Crimping Tools & Pipe Fittings

RK-26

RK-27

Description	Part No.
Superior hose repair kits include: fittings (nuts & nipples, splicers, couplers and ferrules) for the stated hose I.D. and thread size. Also, included with the kits are a 2 hole vise grip crimping tool for fast, easy and reliable crimping of the hose fittings. All kits come in a sectioned plastic case with instructions and fitting description charts. NEW All kits are available without the crimping tool and just the fittings that you need if you already have a crimper. To order the kit you want without a crimping tool, add LT to the back of the kit part number. For example, the RK-27LT will get you just the replacement fittings in the same sectioned box.	
"B" hose fittings with KT-28 Crimping Tool. Contains nuts, nipples, couplers, splicers and ferrules for 1/4" and 3/16" I.D. hose.	RK-24
"B" hose fittings, fittings only, nipples, couplers, splicers and ferrules for 1/4" and 3/16" I.D. hose.	RK-24LT
"B" hose fittings with KT-28 Crimping Tool. Contains nuts, nipples, couplers, splicers and ferrules for 1/4" I.D. hose.	RK-26
"B" hose fittings only nuts, nipples, couplers, splicers and ferrules for 1/4" I.D. hose.	RK-26LT
"A" & "B" hose fittings with KT-28 Crimping Tool. Contains nuts, nipples, couplers, splicers and ferrules for 1/4" and 3/16" I.D. hose.	RK-27
"A" & "B" hose fittings only. Contains nuts, nipples, couplers, splicers and ferrules for 1/4" and 3/16" I.D. hose.	RK-27LT
"B" hose fittings only. Contains nuts, nipples, couplers, splicers and ferrules for 5/16" & 3/8" I.D. hose.	RK-28LT
"B" hose fittings only. Contains nuts, nipples, couplers, splicers and ferrules for 1/4" and 3/16" I.D. hose.	RK-35LT
Inert hose fittings with KT-28 crimping tool. Contains nuts, nipples, couplers, splicers and ferrules for 1/4" I.D. hose	RK-50
Inert hose fittings only. Contains nuts, nipples, couplers, splicers and ferrules for 1/4" I.D. hose	RK-50LT

Ferrule Crimping Tools, Vice Grip Type

KT-28

KT-30

SCR-100

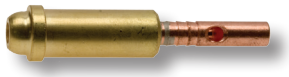
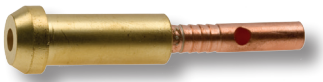
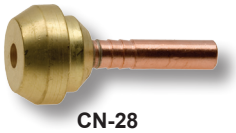
Description	Part No.
2-Hole Jaws to Crimp 1/2" wide to crimp 3/16" - 1/4" Hose	KT-28
3-Hole Jaws to Crimp 1/2" wide to crimp 5/16", 11/32", 27/64" Hole Size Diameters 7/16" and 9/16" on Twin or Single Hose	KT-30

*No hammer, vise, or other tool needed. Insert hose with ferrule and splicer or nut and nipple in proper hole. Offset tool approximately 1/8" from end of ferrule and squeeze. Make 1/4 turn and squeeze again.

Description	Part No.
Bench top, 5-die, crimper Die sizes for 5/8", 37/64", 17/32", 31/64", and 11/16" diameters.	SCR-100

Brass Nipple & Copper Tube Assembly

Maximum Pressure 200 PSI

	Description	Part No.
 CN-16	"B" Brass Nipple x .225" O.D. Copper Tube, Max.140" Dia. Cable Hole	CN-16*
	"B" Brass Nipple x .322" O.D. Copper Tube, Max.246" Dia. Cable Hole	CN-20*
	* use with nuts N-2400 or N-2500	
 CN-36	"C" Brass Nipple x .263" O.D. Copper Tube & Max.166" Dia. Cable Hole	CN-32*
	"C" Brass Nipple x .322" O.D. Copper Tube & Max.246" Dia. Cable Hole	CN-36*
	* use with nuts N-3600 or N-3700	
 CN-28	"C" Brass Nipple x .225" O.D. Copper Tube & Max.140" Dia. Cable Hole	CN-28*
	* use with nuts N-34 or N-35	

Power Cable Connector w/ Brass Swivel Nut & Nipple Soldered to Copper Tube for Crimping

	Description	Part No.
CN-48	"A" Brass Nipple with 3/8"-24 RH-EXT Brass Nut x .322" O.D Copper Tube and Max .246" Cable Hole	CN-48
	"A" Brass Nipple with 3/8"-24 LH EXT Brass Nut x .322" O.D. Copper Tube and Max .246" Cable Hole	CN-49
CN-54	"A" Brass Nipple with 3/8"-24 RH EXT Brass Nut x .322" O.D Copper Tube and Max .246" Cable Hole	CN-54
CN-60	.21" Dia. Brass Nipple with 1/4"-28 INT Brass Nut x .225 O.D. Copper Tube and Max .140" Cable Hole	CN-60
CN-68	.37" Dia. Brass Nipple with 7/16"-20 INT Brass Nut x .375 O.D. Copper Tube and Max .245" Cable Hole	CN-68
CN-72	"B" Brass Nipple with 5/8"-18 EXT Brass Nut x .468 O.D. Copper Tube and Max .328" Cable Hole	CN-72

Brass Power Cable Nipples (One Piece)

	Description	Part No.
CN-10	"A" Nipple x .250" O.D. Tube and Max .203" Diameter Cable Hole * use with nuts N-14 or N-15	CN-6*
	"B" Nipple x .375" O.D. Tube (.420"O.D. Barbs) Hole and Max .312" Diameter Cable * use with nuts N-2400 or N-2500	CN-10*

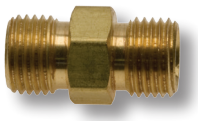
Brass Nipple & Tellurium Copper Tube Assembly

	Description	Part No.
image not available	"B" Brass Nipple x .225" O.D. Tellurium Copper Tube, Max.140" Dia. Cable Hole * use with nuts N-2400 or N-2500	CN-16-T*
	.21" Dia. Brass Nipple with 1/4"-28 INT Brass Nut x .225 O.D. Tellurium Copper Tube and Max .140" Cable Hole	CN-60-T
	.37" Dia. Brass Nipple with 7/16"-20 INT Brass Nut x .375 O.D. Tellurium Copper Tube and Max .245" Cable Hole	CN-68-T

hose connections for inert arc welders

Air-Water Coupler

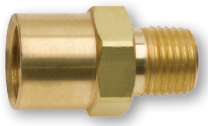
Maximum Pressure 200 PSI



C-134

Thread Size	Part No.
5/8”-18-RH-EXT x 5/8”-18-RH-EXT	C-130
5/8”-18-RH-EXT x 9/16”-18-RH-EXT	C-134
5/8”-18-LH-EXT x 9/16”-18-LH-EXT	C-135

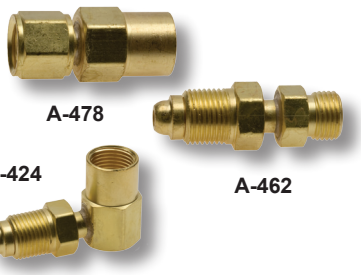
Air-Water Adaptor



A-404

Thread Size	Part No.
1/8” MNPT x 5/8”-18-RH-INT	A-402
1/4” MNPT x 5/8”-18-RH-INT	A-404
1/4” MNPT x 5/8”-18-LH-INT	A-405
1/4” MNPT x 5/8”-18-RH-EXT	A-450

Air-Water Hose Adaptors with Swivel Nuts



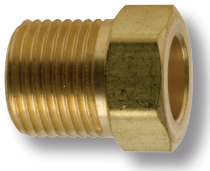
A-478

A-424

A-462

Thread Size	Part No.
1/4” MNPT 5/8”-18-RH- EXT “B”	A-414
1/4” MNPT 5/8”-18-LH- EXT “B”	A-415
“B” 5/8”-18-RH-EXT-90 5/8”-18-RH- INT “B”	A-424
“B“ 5/8”-18-RH-EXT x “B” 9/16”-18-RH-EXT	A-462
“B” 5/8”-18-RH-INT x “B” 9/16”-18-RH-INT	A-478
“B” 5/8”-18-RH-INT x “B” 9/16”-18-RH-INT (one piece)	A-479

Inert Arc Hose Nuts



N-2400

Thread Size	Use with:	Part No.
“A” 3/8”-24-RH-EXT	NP-66, 67, “A” Cable Connectors	N-14
“A” 3/8”-24-LH-EXT	NP-66, 67, “A” Cable Connectors	N-15
“B” 5/8”-18-RH-EXT	NP-69, 70, 72, 73, 74, 76, “B” Cable Connectors	N-2400
“B” 5/8”-18-LH-EXT	NP-69, 70, 72, 73, 74, 76, “B” Cable Connectors	N-2500
“C” 7/8”-14-RH-EXT	NP-606, “C” Cable Connectors	N-3600
“C” 7/8”-14-LH-EXT	NP-606, “C” Cable Connectors	N-3700

Air-Water Nut

Maximum Pressure 200 PSI

N-26

Thread Size	Use with:	Part No.
5/8”-18-RH-INT	NP-595, NP-596	**N-26**

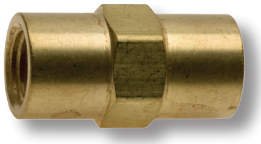
Inert Arc Barb Hose Nipples

NP-73

Description	For Hose Size	Use With Nuts	Part No.
“A”-size	1/8” I.D.	N-14, N-15	**NP-66**
“B”-size	1/8” I.D. undersize	N-2400, N-2500	**NP-68**
“B”-size	1/8” I.D.	N-2400, N-2500	**NP-69**
“B”-size	3/16” I.D.	N-2400, N-2500	**NP-70**
“B”-size	1/4” I.D.	N-2400, N-2500	**NP-72**
“B” Special 1/4” barb	1/4” I.D.	N-2400, N-2500	**NP-73**
“B”-size	5/16” I.D.	N-2400, N-2500	**NP-74**
“B”-size	3/8” I.D.	N-2400, N-2500	**NP-76**

Inert Arc Hose Couplers

Maximum Pressure 200 PSI



C-124

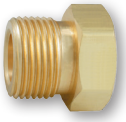
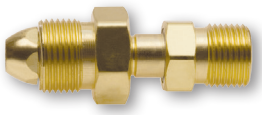
Thread Size	Thread Size	Part No.
3/8”-24-RH-INT “A”	3/8”-24-RH-INT “A”	**C-118**
3/8”-24-LH-INT “A”	3/8”-24-LH-INT “A”	**C-119**
1/4” FNPT	5/8”-18-RH-INT “B”	**C-124**
1/4” FNPT	5/8”-18-LH-INT “B”	**C-125**
5/8”-18-RH INT “B”	5/8”-18-RH INT “B”	**C-126**
5/8”-18-LH INT “B”	5/8”-18-LH INT “B”	**C-127**
7/8”-14-RH-INT “C”	7/8”-14-RH-INT “C”	**C-144**
7/8”-14-LH-INT “C”	7/8”-14-LH-INT “C”	**C-145**

British style fittings

H.P. Cylinder Connectors

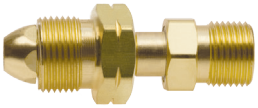
BS 341 #3 Oxygen, Inert Gases

Maximum Pressure (300 bar) 4350 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	5/8”A-RH-EXT	Brass	**BN-341-3**
Handtight Nuts	Nut-HT	5/8”A-RH-EXT	Brass, Plastic Grip	**BNH-341-3**
Nipple-Threaded Inlets	Nipple	1/4” NPT-M, 2.5”Long	Brass	**BNP-341-3-2.5**
Nipple-Handtight	Nipple-HT	1/4” NPT-M, 3.5”Long	Brass	**BNP-341-3W-3.5**
Replacement Items	“O”Ring	For BNP-341-3W-3.5	Nitrile	**OR-580**
Adaptor 	Cylinder Adaptor Cylinder Adaptor	To CGA 540 Regulator To CGA 580 Regulator	Brass Brass	**BA-540** **BA-580**

BS 341 #2 Flammables

Maximum Pressure (300 bar) 4350 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	G 5/8 A-LH-EXT	Brass	**BN-341-2**
Nipple-Threaded Inlets	Nipple	1/4” NPT-M, 2.5”Long	Brass	**BNP-341-3-2.5**
Nipple-Handtight	Nipple-HT	1/4” NPT-M, 3.5”Long	Brass	**BNP-341-3W-3.5**
Replacement Items	“O”Ring	For BNP-341-3W-3.5	Nitrile	**OR-580**
Adaptor 	Cylinder Adaptor	To CGA 510 Regulator	Brass	**BA-510**

L.P. Hose Connectors

Maximum Pressure 200 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	3/8” R.H. Oxygen, Inerts	Brass	**BN-375RH**
	Nut	3/8” L.H. Fuel Gas, Combustibles	Brass	**BN-375LH**
Nipple- Hose Barb	Nipple	1/4” ID Hose, used for 3/8” Nut	Brass	**BNP-375-4**
	Nipple	5/16” ID Hose, used for 3/8” Nut	Brass	**BNP-375-5**

German Style Fittings

DIN-477 Connectors

#6 Inert Gases

Maximum Pressure (300 bar) 4350 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	W 21.80 x 1/14-RH-INT	Brass	**DN-477-06**
Nipple-Threaded Inlets	Nipple	1/4” NPT-M, 3.5”Long	Brass	**DNP-477-6-3.5**
Replacement Items	Washer	For Nipple	Nylon	**DW-477-6N**

#9 Oxygen

Maximum Pressure (300 bar) 4350 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	R 3/4-RH-INT	Brass	**DN-477-09**
Nipple-Threaded Inlets	Nipple	1/4” NPT-M, 3.5”Long	Brass	**DNP-477-6-3.5**
Replacement Items	Washer	For Nipple	Nylon	**DW-477-6N**

German standard fittings

#10 Nitrogen

Maximum Pressure (300 bar) 4350 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	W 24.32 x 1/14-RH-INT	Brass	**DN-477-10**
Nipple-Threaded Inlets	Nipple	1/4” NPT-M, 3.5”Long	Brass	**DNP-477-6-3.5**
Replacement Items	Washer	For Nipple	Nylon	**DW-477-6N**

#12 Nitrous Oxide

Maximum Pressure (300 bar) 4350 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	R 3/4-RH-EXT	Brass	**DN-477-12**
Nipple-Threaded Inlets	Nipple	1/4” NPT-M, 3.5”Long	Brass	**DNP-477-6-3.5**
Replacement Items	Washer	For Nipple	Nylon	**DW-477-6N**

Product specification guide and ordering information for regulator inlet nuts and nipples

Superior Products offers nuts and nipples in a variety of materials and styles to fit a full range of gas service requirements. Seven different types of nut/nipple combinations are available:

- Brass nut and nipple
- Stainless steel nut and nipple
- Brass, chrome plated nut and nipple
- Nut and nipple with check valve
- Nut and nipple recessed for tubing
- Hand tight nut and nipple
- Quick connect nut and nipple

Please note that all types may not be available for every CGA.

Nipples with check valves

Nipples with integral check valves are designed to provide additional safety in gas management systems and other equipment.

- Check valve nipples can be built into pigtails, tee connections and manifold blocks to resist back flow of gases from lines, equipment and cylinders.
- Check valves are factory installed and are 100% tested.
- Available in brass and stainless steel
- Check valves are for reverse flows only - they are not to be used as flashback arrestors.
- When using high-pressure cylinder valve connections you should always refer to the Compressed Gas Association V-7 and/or V-7.1 for the correct method of determining cylinder valve outlet connection.

Hand tight nuts and nipples

Superior Products hand tight nuts are available in brass or with plastic grips.

- All nuts are machined to CGA specifications and designed with wrench flats.
- Soft tip or o-ring type nipples always should be used with hand tight nuts.
- CGA fittings rated over 3000 PSI do not have soft tips and final gas tight seating requires a wrench to tighten.

ORDERING INFORMATION
INLET NIPPLES FILETERS

Most brass and chrome plated nipples may be ordered in any of the following two configurations:

Add "RF" to end of nipple part numbers listed under the CGA numbers for Installed Filters

Example: NP-210 with filter becomes NP-210RF

BRASS AND CHROME PLATED BRASS NIPPLES WITHOUT FILTERS

- Simply order the part numbers as listed under the CGA numbers
- Please note that all Superior Products nipples come standard with filter recess, so a filter can be added.

BRASS AND CHROME PLATED BRASS NIPPLES WITH INSTALLED FILTERS

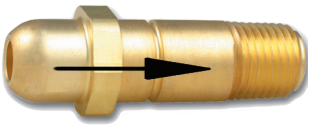
- Add "RF" to end of nipple part numbers listed under the CGA numbers
- Some nipples require filters to be in NPT end of nipples

		Part No.	
FILTERS FOR REGULATOR		F-7	Porous metal filter sintered bronze (nickel plated), rated at 35 microns 6000psi
		F-8	Porous metal filter sintered bronze (nickel plated), rated at 35 microns 6000psi
NIPPLE RETAINING RING		XSR-020	C-clip available to hold nut in position and protect nipple seating area.

CGA check valve nipples are factory tested and installed in CGA nipples for additional safety in gas systems, etc. to prevent dangerous reverse flow of gases in lines and other compressed gas equipment.

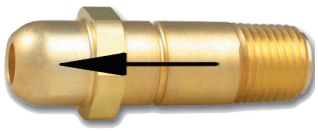
NOTE: These check valves protect against reverse flow only and are not flashback arrestors.

- Available in brass and stainless steel



Flow
Part No. NP-210CV

Also available with the check valve reversed. Specify "RCV".



Flow
Part No. NP-210RCV

regulator inlet nuts & nipples

CGA-170 Non-Corrosive Gases In Small Cylinders

3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	.5625”-18UNF-2B-RH-INT	Brass	**N-49**
	Nut	.5625”-18UNF-2B-RH-INT	SS	**N-49SS**
Nipple-Threaded Inlets	Nipple	1/8” NPT, 1.25” Long	Brass	**NP-101**
	Nipple	1/8” NPT, 1.25” Long	SS	**NP-101SS**
Replacement Items	Washer	For Nipple	PTFE	**W-60**

CGA-180 All Gases In Small Cylinders

3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	.625 -18UNF-2B-RH-INT	Brass	**N-50**
	Nut	.625 -18UNF-2B-RH-INT	CP Brass	**MN-050**
Nipple-Threaded Inlets	Nipple	1/8” NPT, 1.75”Long	Brass	**NP-109**
	Nipple	1/8” NPT, 1.75”Long	CP Brass	**MNP-109**
Replacement Items	Washer	For Nipple	PTFE	**W-65**

CGA-200 “MC” Acetylene In Small Cylinders

500 PSI

	Part	Description	Material	Part No.
Hex Nut	Nut	.628”-20NGO-RH-INT	Brass	**N-57**
Handtight Nut	Nut-HT	.628”-20NGO-RH-INT	Brass, Plastic Grip	**HTN-57P**
Nipple-Threaded Inlets	Nipple	1/8” NPT, 1.25”Long	Brass	**NP-414**
Nipple-Handtight	Nipple-HT	1/8” NPT, 2.5”Long	Brass, PTFE	**NP-418T3**
Replacement Item	Replacement Tip	For HT Nipple	PTFE	**T418-3**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

CGA-280 Medical Breathing Mixtures

3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	.750” -14NGO-RH-INT	Brass	**N-59**
	Nut	.750” -14NGO-RH-INT	CP Brass	**MN-059**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 2.5”Long	Brass	**NP-118**
	Nipple	1/4” NPT, 2.5”Long	CP Brass	**MNP-118**

CGA-296 Industrial Oxygen Mixtures

3,000 PSI

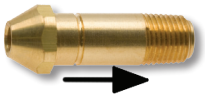
	Part	Description	Material	Part No.
Hex Nuts	Nut	.803” -14UNS-2A-RH-EXT	Brass	**N-60**
	Nut	.803” -14UNS-2A-RH-EXT	CP Brass	**MN-060**
Handtight Nut	Nut-HT	.803” -14UNS-RH-EXT	Brass	**HTN-60**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 3”Long	Brass	**NP-123**
	Nipple	1/4” NPT, 3”Long	CP Brass	**MNP-123**
Nipple-Handtight	Nipple-HT	1/4” NPT, 3”Long w/O-ring	Brass, Nitrile	**NP-123W**
Nipple-Countersunk	Nipple-CS	For 5/16” Tube	Brass	**NP-122C3**
Nipple-Check Valve	Nipple-CV	1/4” NPT, 3”Long	Brass	**NP-123CV**
Replacement Item	O-Ring	For HT-Nipple	Nitrile	**OR-296**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

regulator inlet nuts & nipples

CGA-300 Ethyl Chlorides (R160) Formerly Commercial Acetylene

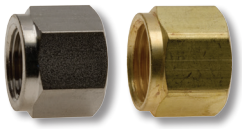
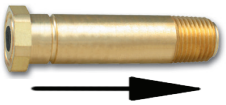
500 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	.830”-14NGO-RH-INT	Brass	**N-56**
	Nut	.830”-14NGO-RH-INT	CP Brass	**MN-056**
Handtight Nuts	Nut-HT	.830”-14NGO-RH-INT	Brass	**HTN-56**
	Nut-HT	.830”-14NGO-RH-INT	Brass, Plastic Grip	**HTN-56P**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 2”Long	Brass	**NP-126**
	Nipple	1/4” NPT, 2.5”Long	Brass	**NP-128**
	Nipple	1/4” NPT, 3.5”Long	Brass	**NP-130**
	Nipple	1/4” NPT, 3.5”Long	CP Brass	**MNP-130**
Nipple-Handtight	Nipple-HT	1/4” NPT-2.5”Long	Brass, PTFE	**NP-128T3**
Nipple-Countersunk	Nipple-CS	For 1/4” Tube	Brass	**NP-126C2**
	Nipple-CS	For 5/16” Tube	Brass	**NP-126C3**
	Nipple-CS	For 3/8” Tube	Brass	**NP-126C4**
Nipple-Check Valve 	Nipple-CV	1/4” NPT, 2.5”Long	Brass	**NP-128CV**
Replacement Items	Soft Tip	For HT-Nipple	PTFE	**T128-3**
	O-Ring	For O-Ring Nipple	Nitrile	**MR-116**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

CGA-320 Carbon Dioxide

3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	.830”-14NGO-RH-INT	Brass	**N-61**
	Nut	.830”-14NGO-RH-INT	SS	**N-61SS**
	Nut	.830”-14NGO-RH-INT	CP Brass	**MN-061**
Handtight Nuts	Nut-HT	.830”-14NGO-RH-INT	Brass	**HTN-61**
	Nut-HT	.830”-14NGO-RH-INT	Brass, Plastic Grip	**HTN-61P**
	Nut-HT	.830”-14NGO-RH-INT	CP Brass, Plastic Grip	**MHN-061P**
Nipple-Threaded Inlets	Nipple*	1/4” NPT, 2”Long	Brass	**NP-147**
	Nipple*	1/4” NPT, 2”Long	Brass	**NP-147SS**
	Nipple*	1/4” NPT, 2”Long	CP Brass	**MNP-147**
	Nipple*	1/4” NPT, 2.5”Long	Brass	**NP-150**
	Nipple*	1/4” NPT, 2.5”Long	SS	**NP-150SS**
	Nipple*	1/4” NPT, 2.5” Long	CP Brass	**MNP-150**
	Nipple*	1/4” NPT, 3” Long	Brass	**NP-151**
	Nipple*	1/4”-NPT, 3” Long	CP Brass	**MNP-151**
	Nipple*	1/4” NPT, 3.5” Long	SS	**NP-154SS**
	Nipple*	1/2” 27UNS, 2.5” Long	Brass	**NP-152**
Nipple-Handtight	Nipple-HT**	1/4” NPT, 2.5” Long	Brass	**NP-150T3**
	Nipple-HT**	For 1/4” Tube	Brass	**NP-147T3C2**
	Nipple-HT**	For 5/16” Tube	Brass	**NP-147T3C3**
Nipple-Countersunk	Nipple-CS*	For 1/4” Tube	Brass	**NP-147C2**
	Nipple-CS*	For 5/16” Tube	Brass	**NP-147C3**
	Nipple-CS*	For 1/4” Tube	SS	**NP-147C2SS**
Nipple-Check Valve 	Nipple-CV*	1/4”NPT, 2.5” Long	Brass	**NP-150CV**
	Nipple-CV*	1/4”NPT, 2.5” Long	CP Brass	**MNP-150CV**
	Nipple-CV*	1/4”NPT, 2.5” Long	SS	**NP-150SSCV**
Nipples for use with Residual Pressure Valves	Nipple-RPV*	1/4”NPT, 3” long	Brass	**NP-151-PIN-SS**
	Nipple-RPV-washer*	1/4”NPT, 3.5” long with Retractable Pin & Washer	Brass	**NP-154W-RPV**
Replacement Items	Washer	For Nipple	Fiber	**W-6**
	Washer	For Nipple	PTFE	**W-8**
	Washer	For HT-Nipples	PTFE	**W-10**
	Washer	For Nipple	Nylon	**MYP-011**
	Pin	For RPV Nipple	SS	**PIN-NP-SS**

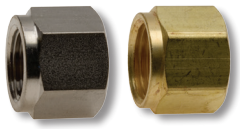
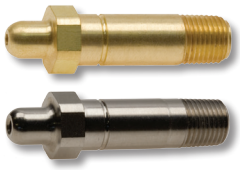
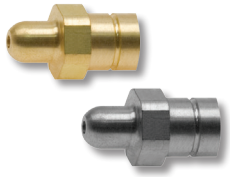
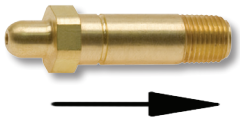
*Includes Washer **Replace washer with W-10 only

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

regulator inlet nuts & nipples

CGA-326 Nitrous Oxide

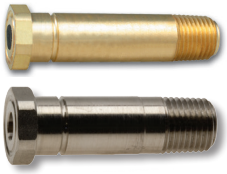
3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	.830”-14NGO-RH-INT	Brass	**N-82**
	Nut	.830”-14NGO-RH-INT	SS	**N-82SS**
	Nut	.830”-14NGO-RH-INT	CP Brass	**MN-082**
Handtight Nuts	Nut-HT	.830”-14NGO-RH-INT	Brass	**HTN-82**
	Nut-HT	.830”-14NGO-RH-INT	Brass, Plastic Grip	**HTN-82P**
	Nut-HT	.830”-14NGO-RH-INT	CP Brass, Plastic Grip	**MHN-082P**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 2.125” Long	Brass	**NP-732**
	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-733**
	Nipple	1/4” NPT, 2.5” Long	SS	**NP-733SS**
	Nipple	1/4” NPT, 2.5” Long	CP Brass	**MNP-733**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-734**
Nipple-Handtight	Nipple-HT	1/4” NPT, 2.5” Long	Brass, PCTFE	**NP-733T1**
	Nipple-HT-CS	For 1/4” Tube	Brass, PCTFE	**NP-732T1C3**
Nipple-Countersunk 	Nipple-CS	For 1/4” Tube	SS	**NP-732C2SS**
	Nipple-CS	For 5/16” Tube	Brass	**NP-732C3**
	Nipple-CS	For 3/8” Tube	Brass	**NP-732C4**
Nipple-Check Valve 	Nipple-CV	1/4” NPT, 2.5”Long	Brass	**NP-733CV**
	Nipple-CV	1/4” NPT, 2.5”Long	SS	**NP-733SSCV**
	Nipple-CV	1/4” NPT, 2.5”Long	CP Brass	**MNP-733CV**
Nipples for use with Residual Pressure Valves	Nipple-RPV-O-Ring	1/4” NPT, 3.5”Long with Retractable Pin & O-Ring	Brass, EPDM	**NP-735W-RPV**
Replacement Items	Soft Tip	For HT-Nipple	PCTFE	**T733-1**
	O-ring	For NP-735W-RPV	EPDM	**OR-326**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

CGA-330 Non-Corrosive Gases

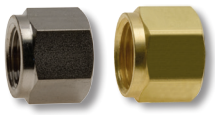
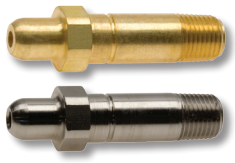
3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	.830”-14NGO-LH-INT	Brass	**N-62**
	Nut	.830”-14NGO-LH-INT	SS	**N-62SS**
	Nut	.830”-14NGO-LH-INT	CP Brass	**MN-062**
Nipple-Threaded Inlets 	Nipple*	1/4” NPT, 2” Long	Brass	**NP-161**
	Nipple*	1/4” NPT, 2” Long	SS	**NP-161SS**
	Nipple*	1/4” NPT, 2.5” Long	Brass	**NP-162**
	Nipple*	1/4” NPT, 2.5” Long	SS	**NP-162SS**
	Nipple*	1/4” NPT, 2.5” Long	CP Brass	**MNP-162**
	Nipple*	1/4” NPT, 3.5” Long	SS	**NP-165SS**
Nipple-Countersunk	Nipple*	For 1/4” Tube	SS	**NP-161C2SS**
Replacement Items	Washer	For Nipple	Fiber	**W-6**
	Washer	For Nipple	PTFE	**W-8**
	Washer	For Nipple	ETFE	**MYP-010**
	Washer	For Nipple	Nylon	**MYP-011**

*Includes Washer

CGA-346 Air

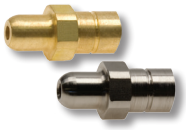
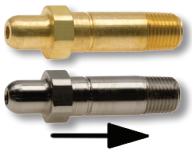
3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	.830”-14NGO-RH-INT	Brass	**N-84**
	Nut	.830”-14NGO-RH-INT	CP Brass	**MN-084**
	Nut	.830”-14NGO-RH-INT	SS	**N-84SS**
Handtight Nuts	Nut-HT	.830”-14NGO-RH INT	Brass	**HTN-84**
	Nut-HT	.830”-14NGO-RH INT	Brass, Plastic Grip	**HTN-84P**
	Nut-HT	.830”-14NGO-RH INT	CP Brass, Plastic Grip	**MHN-084P**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-753**
	Nipple	1/4” NPT, 2.5” Long	SS	**NP-753SS**
	Nipple	1/4” NPT, 2.5” Long	CP Brass	**MNP-753**
	Nipple	1/4” NPT, 3.5” Long	Brass	**NP-755**
	Nipple	1/4” NPT, 3.5” Long	SS	**NP-755SS**
	Nipple	1/4” NPT, 3.5” Long	CP Brass	**MNP-755**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

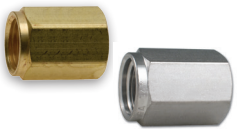
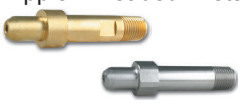
CGA-346 Air Continued

3,000 PSI

	Part	Description	Material	Part No.
Nipple-Handtight	Nipple-HT	1/4” NPT, 2.5” Long	Brass, PCTFE	**NP-753T1**
	Nipple-HT-CS	For 1/4” Tube	Brass, PCTFE	**NP-753T1C2**
	Nipple-HT-CS	For 5/16” Tube	Brass, PCTFE	**NP-753T1C3**
Nipple-Countersunk 	Nipple-CS	For 1/4” Tube	Brass	**NP-752C2**
	Nipple-CS	For 1/4” Tube	SS	**NP-752C2SS**
	Nipple-CS	For 5/16” Tube	Brass	**NP-752C3**
	Nipple-CS	For 3/8” Tube	Brass	**NP-752C4**
Nipple-Check Valve 	Nipple-CV	1/4” NPT, 2.5” Long	Brass	**NP-753CV**
	Nipple-CV	1/4” NPT, 2.5” Long	SS	**NP-753SSCV**
	Nipple-CV	1/4” NPT, 2.5” Long	CP Brass	**MNP-753CV**
Replacement Items	Soft Tip	For HT-Nipple	PCTFE	**T753-1**
	O-Ring	For Quicknut Nipple	Polyurethane	**OR-346**

CGA-347 Air

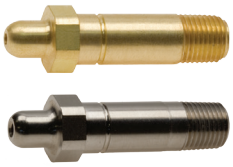
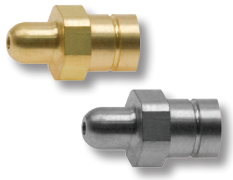
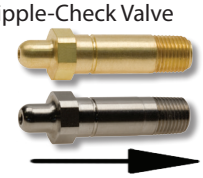
3,001 - 4,700 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	.830”-14NGO-RH-INT	Brass	**N-85**
	Nut	.830”-14NGO-RH-INT	SS	**N-85SS**
	Nut	.830”-14NGO-RH-INT	CP Brass	**MN-085**
Handtight Nuts	Nut-HT	.830”-14NGO-RH-INT	Brass	**HTN-85**
	Nut-HT	.830”-14NGO-RH-INT	Brass, Plastic Grip	**HTN-85P**
	Nut-HT	.830”-14NGO-RH-INT	SS, Alum. Grip	**HTN-85SS**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 3” Long	Brass	**NP-765**
	Nipple	1/4” NPT, 3” Long	SS	**NP-765SS**
	Nipple	1/4” NPT, 3” Long	CP Brass	**MNP-765**
Nipple-Handtight	Nipple-HT	1/4” NPT, 3” Long w/ O-Ring	SS, Polyurethane	**NP-765SSW**
	Nipple-HT	1/4” NPT, 3” Long w/ O-Ring	Brass, Polyurethane	**NP-765W**
Nipple-Countersunk	Nipple-CS	For 1/4” Tube	Brass	**NP-765C2**
	Nipple-CS	For 1/4” Tube	SS	**NP-765C2SS**
Nipple-Check Valve	Nipple-CV	1/4” NPT, 3” Long	SS	**NP-765SSCV**
Replacement Items	O-Ring	For HT- Nipple	Polyurethane	**OR-347**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

CGA-350 Hydrogen/Methane/Natural Gas

3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	.830”-14NGO-LH-INT	Brass	**N-64**
	Nut	.830”-14NGO-LH-INT	SS	**N-64SS**
	Nut	.830”-14NGO-LH-INT	CP Brass	**MN-064**
Handtight Nuts	Nut-HT	.830”-14NGO-LH-INT	Brass	**HTN-64**
	Nut-HT	.830”-14NGO-LH-INT	Brass, Plastic Grip	**HTN-64P**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 2.125” Long	Brass	**NP-167**
	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-168**
	Nipple	1/4” NPT, 2.5” Long	SS	**NP-168SS**
	Nipple	1/4” NPT, 2.5” Long	CP Brass	**MNP-168**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-169**
	Nipple	1/4” NPT, 3” Long	CP Brass	**MNP-169**
	Nipple	1/4” NPT, 3.5” Long	Brass	**NP-170**
	Nipple	1/4” NPT, 3.5” Long	SS	**NP-170SS**
	Nipple	1/4” NPT, 3.5” Long	CP Brass	**MNP-170**
Nipple-Handtight	Nipple-HT	1/4” NPT, 2.5” Long	Brass, PTFE	**NP-168T3**
	Nipple-HT-CS	For 1/4” Tube	Brass, PTFE	**NP-168T3C2**
	Nipple-HT-CS	For 5/16” Tube	Brass, PTFE	**NP-168T3C3**
Nipple-Countersunk 	Nipple-CS	For 1/4” Tube	Brass	**NP-168C2**
	Nipple-CS	For 1/4” Tube	SS	**NP-168C2SS**
	Nipple-CS	For 5/16” Tube	Brass	**NP-168C3**
	Nipple-CS	For 3/8” Tube	Brass	**NP-168C4**
Nipple-Check Valve 	Nipple-CV	1/4” NPT, 2.5” Long	Brass	**NP-168CV**
	Nipple-CV	1/4” NPT, 2.5” Long	SS	**NP-168SSCV**
	Nipple-CV	1/4” NPT, 2.5” Long	CP Brass	**MNP-168CV**
Nipples for use with Residual Pressure Valves	Nipple-RPV	1/4” NPT, 2.5” Long	Brass, SS Pin	**NP-168-PIN-SS**
	Nipple-RPV	1/4” NPT, 2.5” Long	Brass, Monel Pin	**NP-168-PIN-M**
	Nipple-RPV	1/4” NPT, 3.5” Long	Brass, Retractable SS Pin	**NP-170-RPV**
Replacement Items	Soft Tip	For HT-Nipple	PTFE	**T168-3**
	Pin	SS Pin for NP-168-PIN-SS	SS	**PIN-NP-SS**
	Pin	Monel Pin for NP-168-PIN-M	Monel	**PIN-NP-M**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

regulator inlet nuts & nipples

CGA-410 Canadian Acetylene

500 PSI

	Part	Description	Material	Part No.
Hex Nut	Nut	.855”-14NGO-LH-INT	Brass	**N-66**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-168**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-169**
	Nipple	1/4” NPT, 3.5” Long	Brass	**NP-170**

CGA-415 Canadian Acetylene

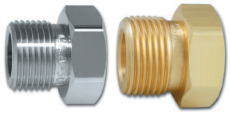
500 PSI

	Part	Description	Material	Part No.
Hex Nut	Nut	.855”-14NGO-LH-INT	Brass	**N-66**
Nipple-Threaded Inlet	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-181**
Replacement Part	Washer	For Nipple	Fiber	**W-50**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

CGA-500 Medical Mixtures

3,000 PSI

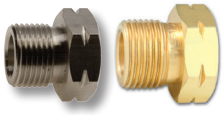
	Part	Description	Material	Part No.
Hex Nuts 	Nut	.880”-14NGO-RH-EXT	Brass	**N-67**
	Nut	.880”-14NGO-RH-EXT	CP Brass	**MN-067**
Handtight Nuts	Nut-HT	.880”-14NGO-RH-EXT	Brass, Plastic Grip	**HTN-67P**
	Nut-HT	.880”-14NGO-RH-EXT	CP Brass, Plastic Grip	**MHN-067P**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-188**
	Nipple	1/4” NPT, 2.5” Long	CP Brass	**MNP-188**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-189**
	Nipple	1/4” NPT, 3” Long	CP Brass	**MNP-189**
	Nipple	1/4” NPT, 3.5” Long	Brass	**NP-190**
	Nipple	1/4” NPT, 3.5” Long	CP Brass	**MNP-190**
	Nipple	1/4” NPT, 4.5” Long	Brass	**NP-191**
Nipple-Handtight	Nipple-HT	1/4” NPT, 3.5” Long	Brass, PTFE	**NP-190T3**
	Nipple-HT	1/4” NPT, 3.5” Long w/ O-Ring	Brass, Nitrile	**NP-190W**
	Nipple-HT	1/4” NPT, 3.5” Long w/ O-Ring	CP Brass, Nitrile	**MNP-190W**
	Nipple-HT-CS	For 1/4” Tube	Brass, PTFE	**NP-188T3C2**
	Nipple-HT-CS	For 5/16”Tube	Brass, PTFE	**NP-188T3C3**
Nipple-Countersunk	Nipple-CS	For 1/4” Tube	Brass	**NP-188C2**
	Nipple-CS	For 5/16” Tube	Brass	**NP-188C3**
	Nipple-CS	For 3/8” Tube	Brass	**NP-188C4**
Nipple-Check Valve	Nipple-CV	1/4” NPT, 2.5” Long	Brass	**NP-188CV**
	Nipple-CV	1/4” NPT, 2.5” Long	CP Brass	**MNP-188CV**
	Nipple-CV	1/4” NPT, 3” Long	Brass	**NP-189CV**
Replacement Parts	O-Ring	For O-Ring Nipple	Nitrile	**OR-580**
	Soft Tip	For HT-Nipple	PTFE	**T189-3**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

regulator inlet nuts & nipples

CGA-510 Acetylene/Propane/Natural Gas

500 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	.880”-14NGO-LH-EXT(7/8”Hex)	Brass	**N-68**
	Nut	.880”-14NGO-LH-EXT	Brass	**N-69**
	Nut	.880”-14NGO-LH-EXT	SS	**N-69SS**
	Nut	.880”-14NGO-LH-EXT	CP Brass	**MN-069**
Handtight Nuts	Nut-HT	.880”-14NGO-LH-EXT	Brass	**HTN-69**
	Nut-HT	.880”-14NGO-LH-EXT	Brass, Plastic Grip	**HTN-69P**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-188**
	Nipple	1/4” NPT, 2.5” Long	CP Brass	**MNP-188**
	Nipple	1/4” NPT, 2.5” Long	SS	**NP-188SS**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-189**
	Nipple	1/4” NPT, 3” Long	CP Brass	**MNP-189**
	Nipple	1/4” NPT, 3” Long	SS	**NP-189SS**
	Nipple	1/4” NPT, 3.5” Long	Brass	**NP-190**
	Nipple	1/4” NPT, 3.5” Long	SS	**NP-190SS**
	Nipple	1/4” NPT, 3.5” Long	CP Brass	**MNP-190**
	Nipple	1/4” NPT, 4.5” Long	Brass	**NP-191**
Nipple-Handtight	Nipple-HT	1/4” NPT, 3” Long (only with HTN-69)	Brass, PTFE	**NP-189T3**
	Nipple-HT	1/4” NPT, 3.5” Long, w/ soft tip	Brass, PTFE	**NP-190T3**
	Nipple-HT	1/4” NPT, 3.5” Long w/ O-Ring	Brass, Nitrile	**NP-190W**
	Nipple-HT-CS	For 1/4” Tube	Brass, PTFE	**NP-188T3C2**
	Nipple-HT-CS	For 5/16” Tube	Brass, PTFE	**NP-188T3C3**
Nipple-Countersunk	Nipple-CS	For 1/4” Tube	Brass	**NP-188C2**
	Nipple-CS	For 1/4” Tube	SS	**NP-188C2SS**
	Nipple-CS	For 5/16” Tube	Brass	**NP-188C3**
	Nipple-CS	For 5/16” Tube	SS	**NP-188C3SS**
	Nipple-CS	For 3/8” Tube	Brass	**NP-188C4**
Nipple-Check Valve	Nipple-CV	1/4” NPT, 2.5” Long	Brass	**NP-188CV**
	Nipple-CV	1/4” NPT, 2.5” Long	SS	**NP-188SSCV**
	Nipple-CV	1/4” NPT, 2.5” Long	CP Brass	**MNP-188CV**
	Nipple-CV	1/4” NPT, 3” Long	Brass	**NP-189CV**
	Nipple-CV	1/4” NPT, 3” Long	SS	**NP-189SSCV**
Replacement Items	Soft Tip	For HT-Nipple	PTFE	**T189-3**
	O-Ring	For NP-190W	Nitrile	**OR-580**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

CGA-520 “B Size” Acetylene In Small Cylinders

500 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	.899”-18NGO-RH-INT	Brass	**N-70**
Handtight Nuts	Nut-HT	.899”-18NGO-RH-INT	Brass, Plastic Grip	**HTN-70P**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 1.75” Long	Brass	**NP-435**
Nipple-Handtight	Nipple-HT	1/4” NPT, 1.75” Long w/ O-Ring	Brass, EPDM	**NP-435W**
Nipple-Countersunk	Nipple-CS	For 1/4”Tube	Brass	**NP-435C2**
Replacement Parts	O-Ring	For HT	EPDM	**OR-520Z**

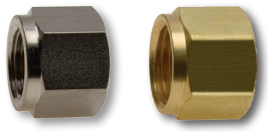
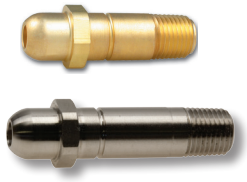
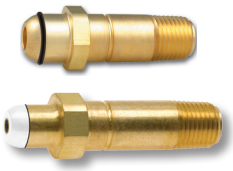
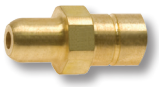
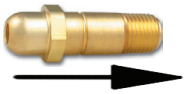
Notes:

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

regulator inlet nuts & nipples

CGA-540 Oxygen

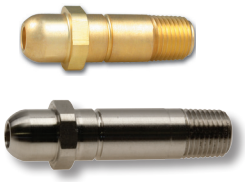
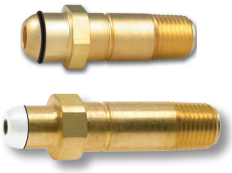
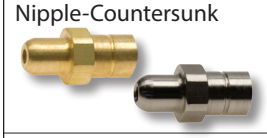
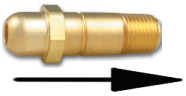
3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	.908”-14NGO-RH-INT.	Brass	**N-71**
	Nut	.908”-14NGO-RH-INT.	SS	**N-71SS**
	Nut	.908”-14NGO-RH-INT	CP Brass	**MN-071**
Handtight Nuts	Nut-HT	.908”-14NGO-RH-INT	Brass	**HTN-71**
	Nut-HT	.908”-14NGO-RH-INT	Brass, Plastic Grip	**HTN-71P**
	Nut-HT	.908”-14NGO-RH-INT	CP Brass, Plastic Grip	**MHN-071P**
Nipples - Threaded Inlets 	Nipple	1/4” NPT, 2.06” Long	Brass	**NP-210**
	Nipple	1/4” NPT, 2.06” Long	CP Brass	**MNP-210**
	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-211**
	Nipple	1/4” NPT, 2.5” Long	CP Brass	**MNP-211**
	Nipple	1/4” NPT, 2.5” Long	SS	**NP-211SS**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-212**
	Nipple	1/4” NPT, 3” Long	CP Brass	**MNP-212**
	Nipple	1/4” NPT, 3.5” Long	Brass	**NP-213**
Nipples - Handtight 	Nipple-HT	1/4” NPT, 2.5” Long w/ O-Ring	Brass/Viton	**NP-211W**
	Nipple-HT	1/4” NPT, 2.5” Long w/ O-Ring	CP Brass/Viton	**MNP-211W**
	Nipple-HT	1/4” NPT, 2.5” Long	Brass/PCTFE	**NP-211T1**
	Nipple-HT	For 1/4” Tube	Brass/PCTFE	**NP-210T1C2**
	Nipple-HT	For 5/16” Tube	Brass/PCTFE	**NP-210T1C3**
Nipples - Countersunk 	Nipple-CS	For 1/4” Tube	Brass	**NP-210C2**
	Nipple-CS	For 1/4” Tube	SS	**NP-210C2SS**
	Nipple-CS	For 5/16” Tube	Brass	**NP-210C3**
	Nipple-CS	For 3/8” Tube	Brass	**NP-210C4**
Nipple - Check Valve 	Nipple-CV	1/4” NPT, 2.125” Long	Brass	**NP-210CV**
	Nipple-CV	1/4” NPT, 2.125” Long	CP Brass	**MNP-210CV**
	Nipple-CV	1/4” NPT, 2.5” Long	SS	**NP-211SSCV**
Nipples - Residual Pressure Valve	Nipple-RPV	1/4” NPT, 2.5” Long	Brass (Monel Pin)	**NP-211-PIN-M**
	Nipple-RPV	1/4” NPT, 2.5” Long	Brass (SS Pin)	**NP-211-PIN-SS**
	Nipple-RPV	1/4” NPT, 2.5” Long w/ O-Ring	Brass (Monel Pin)	**NP-211W-PIN-M**
	Nipple-RPV	1/4” NPT, 3.5” Long w/ O-Ring	Brass (Retractable SS Pin)	**NP-213W-RPV**
Replacement Items	Soft Tip	For HT-Nipple	PCTFE	**T211-1**
	O-Ring	For O-Ring Nipple	Viton	**OR-011V7**
	Pin	For RPV Nipple	SS	**PIN-NP-SS**
	Pin	For RPV Nipple	Monel	**PIN-NP-M**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

CGA-555 Propane, Butane For Liquid Withdrawal

3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts	Nut	.908”-14NGO-LH-INT	Brass	**N-86**
	Nut	.908”-14NGO-LH-INT	CP Brass	**MN-086**
Handtight Nuts	Nut-HT	.908”-14NGO-LH-INT	Brass	**HTN-86**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 2.06” Long	Brass	**NP-210**
	Nipple	1/4” NPT, 2.06” Long	CP Brass	**MNP-210**
	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-211**
	Nipple	1/4” NPT, 2.5” Long	CP Brass	**MNP-211**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-212**
	Nipple	1/4” NPT, 3” Long	CP Brass	**MNP-212**
	Nipple	1/4” NPT, 3.5” Long	Brass	**NP-213**
Nipple-Handtight 	Nipple-HT	1/4” NPT, 2.5” Long w/ o-ring	Brass, Viton	**NP-211W**
	Nipple-HT	1/4” NPT, 2.5” Long w/ o-ring	CP Brass, Viton	**MNP-211W**
	Nipple-HT	1/4” NPT, 2.5” Long	Brass, PCTFE	**NP-211T1**
	Nipple-HT-CS	For 1/4” Tube	Brass, PCTFE	**NP-210T1C2**
	Nipple-HT-CS	For 5/16” Tube	Brass, PCTFE	**NP-210T1C3**
Nipple-Countersunk 	Nipple-CS	For 1/4” Tube	Brass	**NP-210C2**
	Nipple-CS	For 5/16”Tube	Brass	**NP-210C3**
	Nipple-CS	For 3/8” Tube	Brass	**NP-210C4**
Nipple-Check Valve 	Nipple-CV	1/4” NPT, 2.125” Long	Brass	**NP-210CV**
	Nipple-CV	1/4” NPT, 2.125” Long	CP Brass	**MNP-210CV**
Replacement Parts	Soft Tip	For Soft Tip-Nipple	PCTFE	**T211-1**
	O-Ring	For O-Ring-Nipple	Viton	**OR-011V7**

CGA-577 Oxygen

3,001 - 4,000 PSI

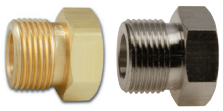
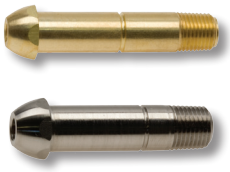
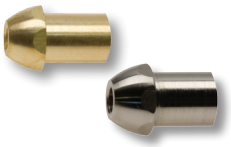
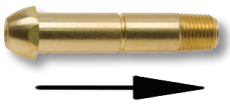
	Part	Description	Material	Part No.
Hex Nuts	Nut	.965”-14NGO-RH-INT	Brass	**N-577**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 3” Long	Brass	**NP-823**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

regulator inlet nuts & nipples

CGA-580 Argon, Helium, Nitrogen

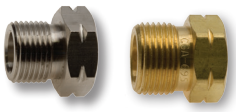
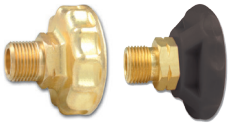
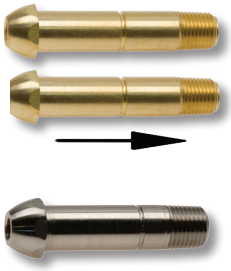
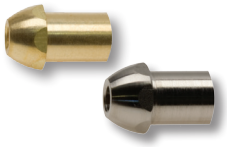
3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	.960”-14NGO-RH-EXT	Brass	**N-73**
	Nut	.960”-14NGO-RH-EXT	SS	**N-73SS**
	Nut	.960”-14NGO-RH-EXT	CP Brass	**MN-073**
Handtight Nuts	Nut, HT	.960”-14NGO-RH-EXT	Brass	**HTN-73**
	Nut, HT	.960”-14NGO-RH-EXT	CP Brass, Plastic Grip	**MHN-073P**
	Nut, HT	.960”-14NGO-RH-EXT	Brass, Plastic Grip	**HTN-73P**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-188**
	Nipple	1/4” NPT, 2.5” Long	SS	**NP-188SS**
	Nipple	1/4” NPT, 2.5” Long	CP Brass	**MNP-188**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-189**
	Nipple	1/4” NPT, 3” Long	SS	**NP-189SS**
	Nipple	1/4” NPT, 3” Long	CP Brass	**MNP-189**
	Nipple	1/4” NPT, 3.5” Long	Brass	**NP-190**
	Nipple	1/4” NPT, 3.5” Long	SS	**NP-190SS**
	Nipple	1/4” NPT, 3.5” Long	CP Brass	**MNP-190**
	Nipple	1/4” NPT, 4.5” Long	Brass	**NP-191**
Nipple-Handtight	Nipple-HT	1/4” NPT, 3” Long	Brass, PTFE	**NP-189T3**
	Nipple-HT	1/4” NPT, 3.5” Long	Brass, PTFE	**NP-190T3**
	Nipple-HT	1/4” NPT, 3.5” Long, w/ o’ ring	Brass, Nitrile	**NP-190W**
	Nipple-HT-CS	For 1/4” Tube	Brass, PTFE	**NP-188T3C2**
	Nipple-HT-CS	For 5/16” Tube	Brass, PTFE	**NP-188T3C3**
Nipple-Countersunk 	Nipple-CS	For 1/4” Tube	Brass	**NP-188C2**
	Nipple-CS	For 1/4”Tube	SS	**NP-188C2SS**
	Nipple-CS	For 5/16” Tube	Brass	**NP-188C3**
	Nipple-CS	For 5/16” Tube	SS	**NP-188C3SS**
	Nipple-CS	For 3/8” Tube	Brass	**NP-188C4**
Nipple-Check Valve 	Nipple-CV	1/4” NPT, 2.5” Long	Brass	**NP-188CV**
	Nipple-CV	1/4” NPT, 2.5” Long	SS	**NP-188SSCV**
	Nipple-CV	1/4” NPT, 2.5” Long	CP Brass	**MNP-188CV**
	Nipple-CV	1/4” NPT, 3” Long	Brass	**NP-189CV**
	Nipple-CV	1/4” NPT, 3” Long	SS	**NP-189SSCV**
Nipples - Residual Pressure Valve	Nipple-RPV	1/4” NPT, 3.5” Long	Brass, SS PIN	**NP-190-PIN-SS**
	Nipple-RPV	1/4” NPT, 3.5” Long	Brass, Monel PIN	**NP-190-PIN-M**
	Nipple-RPV-O-Ring	1/4” NPT, 3.5” Long	Brass, Retractable Pin	**NP-190W-RPV**
Replacement Parts	Soft Tip	For Soft Tip-Nipple	PTFE	**T189-3**
	O-Ring	For O-Ring-Nipple	Nitrile	**OR-580**
	Pin	For RPV Nipple	SS	**PIN-NP-SS**
	Pin	For RPV Nipple	Monel	**PIN-NP-M**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

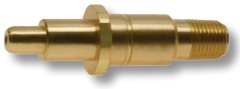
CGA-590 Sulfur Hexafluoride Formerly Industrial Air

3,000 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	.960”-14NGO-LH-EXT	Brass	**N-74**
	Nut	.960”-14NGO-LH-EXT	SS	**N-74SS**
	Nut	.960”-14NGO-LH-EXT	CP Brass	**MN-074**
Nipple - Handtight 	Nut-HT	.960”-14NGO-LH-EXT	Brass	**HTN-74**
	Nut-HT	.960”-14NGO-LH-EXT	Brass, Plastic	**HTN-74P**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-188**
	Nipple	1/4” NPT, 2.5” Long	SS	**NP-188SS**
	Nipple	1/4” NPT, 2.5” Long	CP Brass	**MNP-188**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-189**
	Nipple	1/4” NPT, 3” Long	SS	**NP-189SS**
	Nipple	1/4” NPT, 3” Long	CP Brass	**MNP-189**
	Nipple	1/4” NPT, 3.5” Long	Brass	**NP-190**
	Nipple	1/4” NPT, 3.5” Long	CP Brass	**MNP-190**
	Nipple	1/4” NPT, 3.5” Long	SS	**NP-190SS**
	Nipple	1/4” NPT, 4.5” Long	Brass	**NP-191**
Nipple-Handtight	Nipple-HT	1/4” NPT, 3” Long	Brass, PTFE	**NP-189T3**
	Nipple-HT	1/4” NPT, 3.5” Long	Brass, PTFE	**NP-190T3**
	Nipple-HT	1/4” NPT, 3.5” Long, w/ o’ ring	Brass, Nitrile	**NP-190W**
	Nipple-HT-CS	For 1/4” Tube	Brass, PTFE	**NP-188T3C2**
	Nipple-HT-CS	For 5/16” Tube	Brass, PTFE	**NP-188T3C3**
Nipple-Countersunk 	Nipple-CS	For 1/4” Tube	Brass	**NP-188C2**
	Nipple-CS	For 1/4”Tube	SS	**NP-188C2SS**
	Nipple-CS	For 5/16” Tube	Brass	**NP-188C3**
	Nipple-CS	For 5/16” Tube	SS	**NP-188C3SS**
	Nipple-CS	For 3/8” Tube	Brass	**NP-188C4**
Nipple-Check Valve	Nipple-CV	1/4” NPT, 2.5” Long	Brass	**NP-188CV**
	Nipple-CV	1/4” NPT, 2.5” Long	SS	**NP-188SSCV**
	Nipple-CV	1/4” NPT, 2.5” Long	CP Brass	**MNP-188CV**
	Nipple-CV	1/4” NPT, 3” Long	Brass	**NP-189CV**
	Nipple-CV	1/4” NPT, 3” Long	SS	**NP-189SSCV**
Replacement Parts	Soft Tip	For Soft Tip-Nipple	PTFE	**T189-3**
	O-Ring	For O-Ring-Nipple	Nitrile	**OR-580**

CGA-621 Oil Tolerant Nitrogen

3,001-4,700 PSI

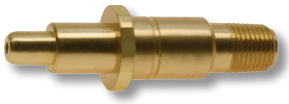
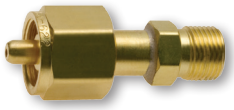
	Part	Description	Material	Part No.
Hex Nuts	Nut	1.035”-14NGO-LH-INT	Brass	**N-621**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 3” Long	Brass	**NP-621**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

regulator inlet nuts & nipples

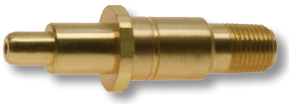
CGA-622 Carbon Dioxide For Liquid Withdrawal

500 PSI

	Part	Description	Material	Part No.
Hex Nut	Nut	1.035”-14NGO-RH-INT	Brass	**N-622**
Nipple-Threaded Inlet 	Nipple	1/4” NPT, 3” Long	Brass	**NP-621**
Liquid Cylinder to Hose Adaptor 	Nipple	1.035”-14NGO-RH-INT to CGA 320	Brass	**A-622**

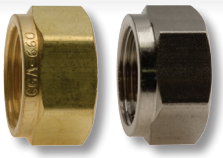
CGA-624 Nitrous Oxide For Liquid Withdrawal

500 PSI

	Part	Description	Material	Part No.
Hex Nut	Nut	1.035”-14NGO-RH-INT	Brass	**N-624**
Nipple-Threaded Inlet 	Nipple	1/4” NPT, 3” Long	Brass	**NP-624**

CGA-660 Refrigerant Gases

3,000 PSI

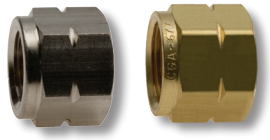
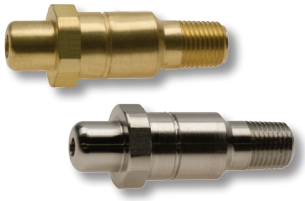
	Part	Description	Material	Part No.
Hex Nuts 	Nut	1.035”-14NGO-RH-INT	Brass	**N-77**
	Nut	1.035”-14NGO-RH-INT	SS	**N-77SS**
	Nut	1.035”-14NGO-RH-INT	CP Brass	**MN-077**
Nipple-Threaded Inlets	Nipple*	1/4” NPT, 1.75” Long	Brass	**NP-236**
	Nipple*	1/4” NPT, 2.5” Long	Brass	**NP-238**
	Nipple*	1/4” NPT, 2.5” Long	SS	**NP-238SS**
	Nipple*	1/4” NPT, 2.5” Long	CP Brass	**MNP-238**
	Nipple*	1/4” NPT, 3” Long	SS	**NP-239SS**
	Nipple*	1/4” NPT, 3.5” Long	SS	**NP-240SS**
Nipple-Countersunk	Nipple-CS*	For 1/4” Tube	SS	**NP-236C2SS**
Nipple-Check Valve	Nipple-CV	1/4” NPT, 2.5” Long	SS	**NP-238SSCV**
Replacement Item	Washer	For Nipple	PTFE	**W-18**

**Includes Washer*

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

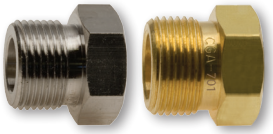
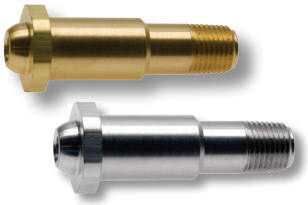
CGA-677 Argon/Nitrogen/Helium

4,701-6,400 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	1.035”-14NGO-LH-INT	Brass	**N-80**
	Nut	1.035”-14NGO-LH-INT	SS	**N-80SS**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 2.5” Long	Brass	**NP-246**
	Nipple	1/4” NPT, 2.5” Long	SS	**NP-246SS**
	Nipple	1/4” NPT, 3” Long	Brass	**NP-247**
	Nipple	1/4” NPT, 3” Long	SS	**NP-247SS**
	Nipple	1/4” NPT, 3.5” Long	SS	**NP-248SS**
	Nipple	3/8” NPT, 3” Long	Brass	**NP-250**
	Nipple	3/8” NPT, 3” Long	SS	**NP-250SS**
Nipple-Tube Sockets	Nipple-CS	For 1/4” Tube	SS	**NP-246C2SS**

CGA-680 Argon/Nitrogen/Helium

3,001-4,700 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	1.040”-14NGO-RH-EXT	Brass	**N-680**
	Nut	1.040”-14NGO-RH-EXT	SS	**N-680SS**
Nipple-Threaded Inlets 	Nipple	1/4” NPT, 2.5”	Brass	**NP-842**
	Nipple	1/4” NPT, 2.5”	SS	**NP-842SS**
	Nipple	1/4” NPT, 3”	Brass	**NP-843**
	Nipple	1/4” NPT, 3”	SS	**NP-843SS**
	Nipple	1/4” NPT, 3.5”	Brass	**NP-844**
Nipple-Tube Sockets	Nipple-CS	For 1/4” Tube	Brass	**NP-842C2**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

regulator inlet nuts & nipples

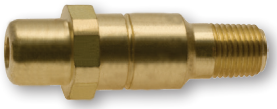
CGA-695 Hydrogen/Methane

3,001-4,700 PSI

	Part	Description	Material	Part No.
Hex Nut	Nut	1.040”-14NGO-LH-EXT	Brass	**N-695**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 2.5”	Brass	**NP-842**
	Nipple	1/4” NPT, 3”	Brass	**NP-843**
	Nipple	1/4” NPT, 3.5”	Brass	**NP-844**
Nipple-Countersunk	Nipple-CS	For 1/4” Tube	Brass	**NP-842C2**

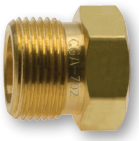
CGA-701 Oxygen

3,501-4,700 PSI

	Part	Description	Material	Part No.
Hex Nut	Nut	1.108”-18NGO-RH-INT	Brass	**N-701**
	Nut	1.108”-18NGO-RH-INT	SS	**N-701SS**
Nipple-Threaded Inlet 	Nipple	1/4” NPT, 3”	Brass	**NP-863**
	Nipple	1/4” NPT, 3”	SS	**NP-863SS**

CGA-702 Air

4,701-6,400 PSI

	Part	Description	Material	Part No.
Hex Nuts 	Nut	1.120”-14NGO-RH-EXT	Brass	**N-702**
	Nut	1.120”-14NGO-RH-EXT	CP Brass	**MN-702**
Nipple-Threaded Inlets	Nipple	1/4” NPT, 2.5”	Brass	**NP-842**
	Nipple	1/4” NPT, 3”	Brass	**NP-843**
	Nipple	1/4” NPT, 3”	CP Brass	**MNP-843**
	Nipple	1/4” NPT, 3.5”	Brass	**NP-844**
Nipple-Countersunk	Nipple-CS	For 1/4” Tube	Brass	**NP-842C2**

Add “RF” to end of nipple part numbers listed under the CGA numbers for Installed Filters

CGA-870 Oxygen

Inlet	Part No.
Yoke w/HT grip x CGA 540 male	**MFY-870-1H**
Yoke w/T-handle x CGA 540 male	**MFY-870-1**
Yoke w/HT grip x 1/4” NPT male	**MFY-870-4H**
Yoke w/T-handle x 1/4” NPT male	**MFY-870-4**
Yoke w/HT grip x 1/2” NPT male	**MFY-870-8H**
Yoke w/T-handle x 1/2” NPT male	**MFY-870-8**
Yoke w/S.S. HT grip x 1/4” NPT male	**MFY-870-4H-M**
Yoke w/S.S. HT grip x 1/2” NPT male	**MFY-870-8H-M**

CGA-940 CO2/Oxygen Mixture w/ CO2 Over 7%

Inlet	Part No.
Yoke w/HT grip x 1/4” NPT male	**MFY-940-4H**
Yoke w/T-handle x 1/4” NPT male	**MFY-940-4**
Yoke w/HT grip x 1/2” NPT male	**MFY-940-8H**
Yoke w/T-handle x 1/2” NPT male	**MFY-940-8**

CGA-880 CO2/Oxygen Mixture w/ CO2 Not Over 7%

Inlet	Part No.
Yoke w/HT grip x 1/4” NPT male	**MFY-880-4H**
Yoke w/T-handle x 1/4” NPT male	**MFY-880-4**
Yoke w/HT grip x 1/2” NPT male	**MFY-880-8H**
Yoke w/T-handle x 1/2” NPT male	**MFY-880-8**

CGA-950 Medical Air

Inlet	Part No.
Yoke w/HT grip x 1/4” NPT male	**MFY-950-4H**
Yoke w/T-handle x 1/4” NPT male	**MFY-950-4**
Yoke w/HT grip x 1/2” NPT male	**MFY-950-8H**
Yoke w/T-handle x 1/2” NPT male	**MFY-950-8**

CGA-890 Helium/Oxygen Mixture w/ He Not Over 80%

Inlet	Part No.
Yoke w/HT grip x 1/4” NPT male	**MFY-890-4H**
Yoke w/T-handle x 1/4” NPT male	**MFY-890-4**
Yoke w/HT grip x 1/2” NPT male	**MFY-890-8H**
Yoke w/T-handle x 1/2” NPT male	**MFY-890-8**

CGA-960 Nitrogen

Inlet	Part No.
Yoke w/HT grip x 1/4” NPT male	**MFY-960-4H**
Yoke w/T-handle x 1/4” NPT male	**MFY-960-4**
Yoke w/HT grip x 1/2” NPT male	**MFY-960-8H**
Yoke w/T-handle x 1/2” NPT male	**MFY-960-8**

CGA-910 Nitrous Oxide

Inlet	Part No.
Yoke w/HT grip x 1/4” NPT male	**MFY-910-4H**
Yoke w/T-handle x 1/4” NPT male	**MFY-910-4**
Yoke w/HT grip x 1/2” NPT male	**MFY-910-8H**
Yoke w/T-handle x 1/2” NPT male	**MFY-910-8**

CGA-973 Medical Gas Mixtures

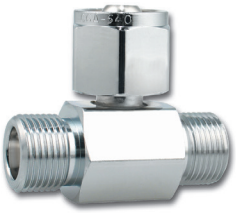
Inlet	Part No.
Yoke w/HT grip x 1/4” NPT male	**MFY-973-4H**
Yoke w/T-handle x 1/4” NPT male	**MFY-973-4**
Yoke w/HT grip x 1/2” NPT male	**MFY-973-8H**
Yoke w/T-handle x 1/2” NPT male	**MFY-973-8**

CGA-930 Helium/Oxygen Mixture w/ He Over 80%

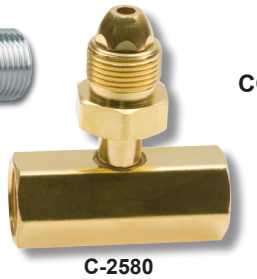
Inlet	Part No.
Yoke w/HT grip x 1/4” NPT male	**MFY-930-4H**
Yoke w/T-handle x 1/4” NPT male	**MFY-930-4**
Yoke w/HT grip x 1/2” NPT male	**MFY-930-8H**
Yoke w/T-handle x 1/2” NPT male	**MFY-930-8**

Replacement Parts for all Yokes	Part No.
T-handle	**MYP-001**
Handtight handle	**MYP-002**
Inlet bushing 1/4” NPT male	**MYP-004**
Inlet bushing 1/2” NPT male	**MYP-008**
ETFE washer	**MYP-010**
Nylon washer	**MYP-011**
FKM washer	**MYP-012**
Sintered inlet filter	**MYP-015**
Stainless steel pin	**MYP-020**
Bushing CGA 540 outlet male w/filter	**MYP-540**
S.S. Replacement Hand tight handle	**MYP-002Z**

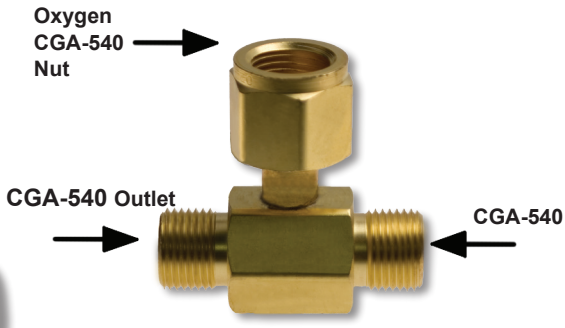
CGA manifold coupler tees



MC-540



C-2580



CGA-540
C-2540CV

C-2580SS

Brass

CGA No.	Swivel Connection	End Connection	PSI	Part No.
296 Industrial Oxygen Mixtures	.803”-14NGO-RH-EXT	.803”-14NGO-RH-INT (2)	3000	**C-2296***
300 (Ethyl Chloride)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	500	**C-2300***
320 (Carbon Dioxide)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	3000	**C-2320***
326 (Nitrous Oxide)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	3000	**C-2326***
346 (Air)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	3000	**C-2346***
347 (Air)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	5500	**C-2347**
350 (Hydrogen/Methane/Natural Gas)	.830”-14NGO-LH-INT	.830”-14NGO-LH-EXT (2)	3000	**C-2350***
510 (Acetylene/Methane/Propane)	.880”-14NGO-LH-EXT	.880”-14NGO-LH-INT (2)	500	**C-2510***
540 (Oxygen)	.908”-14NGO-RH-INT	.908”-14NGO-RH-EXT (2)	3000	**C-2540***
555 (Butane/Propane-Liquid Withdrawal)	.908”-14NGO-LH-INT	.908”-14NGO-LH-EXT (2)	3000	**C-2555**
577 (Oxygen)	.965”-14NGO-RH-INT	.965”-14NGO-RH-EXT (2)	4000	**C-2577**
580 (Inert Gases)	.960”-14NGO-RH-EXT	.960”-14NGO-RH-INT (2)	3000	**C-2580***
590 (Sulfur Hexafluoride)	.960”-14NGO-LH-EXT	.960”-14NGO-LH-INT (2)	3000	**C-2590***
660 (Refrigerant Gases)	1.035”-14NGO-RH-INT	1.035”-14NGO-RH-EXT (2)	3000	**C-2660**
677 (Inert Gases)	1.035”-14NGO-LH-INT	1.035”-14NGO-LH-EXT (2)	7500	**C-2677**
680 (Inert Gases)	1.040”-14NGO-RH-EXT	1.040”-14NGO-RH-INT (2)	5500	**C-2680**
695 (Flammables)	1.040”-14NGO-LH-EXT	1.040”-14NGO-LH-INT (2)	5500	**C-2695**
701 (Oxygen)	1.108”-14NGO-RH-EXT	1.108”-14NGO-RH-INT (2)	5500	**C-2701**
702 (Air)	1.120”-14NGO-RH-EXT	1.120”-14NGO-RH-INT (2)	7500	**C-2702**

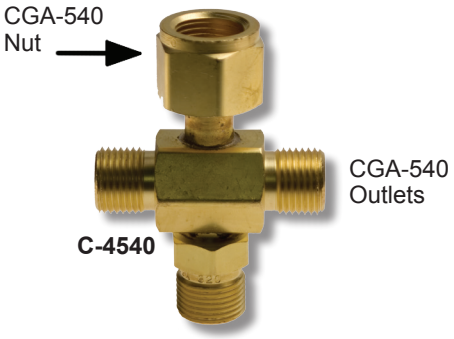
Chrome Plated Brass

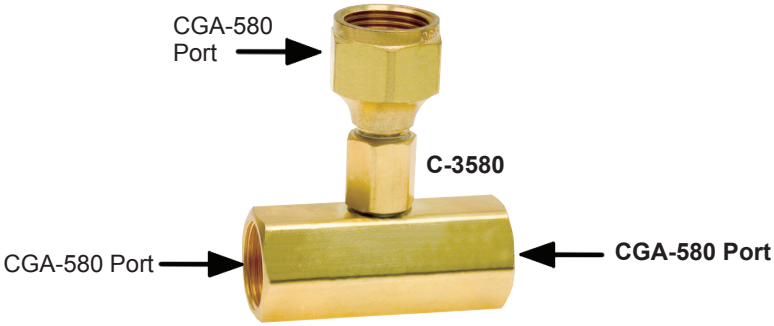
CGA No.	Swivel Connection	End Connection	PSI	Part No.
320 (Carbon Dioxide)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	3000	**MC-320**
326 (Nitrous Oxide)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	3000	**MC-326**
346 (Air)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	3000	**MC-346**
500 (Medical Mixture)	.880”-14NGO-RH-EXT	.880”-14NGO-RH-INT (2)	3000	**MC-500**
540 (Oxygen)	.908”-14NGO-RH-INT	.908”-14NGO-RH-EXT (2)	3000	**MC-540**
580 (Nitrogen/Helium)	.960”-14NGO-RH-EXT	.960”-14NGO-RH-INT (2)	3000	**MC-580**

Stainless Steel

CGA No.	Swivel Connection	End Connection	PSI	Part No.
320 (Carbon Dioxide)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	3000	**C-2320SS**
346 (Air)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	3000	**C-2346SS**
347 (Air)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (2)	5500	**C-2347SS**
350 (Hydrogen)	.830”-14NGO-LH-INT	.830”-14NGO-LH-EXT (2)	3000	**C-2350SS**
540 (Oxygen)	.908”-14NGO-RH-INT	.908”-14NGO-RH-EXT (2)	3000	**C-2540SS**
580 (Inert Gases)	.960”-14NGO-RH-EXT	.960”-14NGO-RH-INT (2)	3000	**C-2580SS**
677 (Inert Gases)	1.035”-14NGO-LH-INT	1.035”-14NGO-LH-EXT (2)	7500	**C-2677SS**

***Available with check valve nipple: Add CV to the end of part number.**





Brass Manifold Coupler Tees - 4 way CGA Valve Outlets, Nut & Nipple Inlet

CGA No.	Swivel Connection	End Connections	PSI	Part No.
320 (Carbon Dioxide)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (3)	3000	**C-4320***
346 (Air)	.830”-14NGO-RH-INT	.830”-14NGO-RH-EXT (3)	3000	**C-4346***
510 (Acetylene/Propane)	.880”-14NGO-LH-EXT	.880”-14NGO-LH-INT (3)	500	**C-4510***
540 (Oxygen)	.908”-14NGO-RH-INT	.908”-14NGO-RH-EXT (3)	3000	**C-4540***
580 (Argon/Helium/Nitrogen)	.960”-14NGO-RH-EXT	.960”-14NGO-RH-INT (3)	3000	**C-4580***
590 (Sulfur Hexafluoride)	.960”-14NGO-LH-EXT	.960”-14NGO-LH-INT (3)	3000	**C-4590***

Brass Manifold Coupler Tees - 3 way CGA Valve Outlets

CGA No.	End Connections	PSI	Part No.
540 (Oxygen)	.830”-14NGO-RH-EXT (3)	3000	**C-3540**
580 (Argon/Helium/Nitrogen)	.960”-14NGO-RH-INT (3)	3000	**C-3580**

*Available w/ Check Valve:
Add “CV” to end of part number

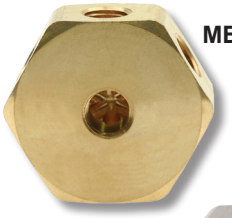
2” Hex Brass Body (with 6 valve outlets)

Brass/Stainless Steel Manifold Blocks & Assemblies

CGA No.	Swivel Connection	End Connection	Part No.
540 (Oxygen)	.908”-14NGO-RH-INT	.908”-14NGO-RH-EXT (6)	**MB-540-7***
580 (Argon/Helium/Nitrogen)	.960”-14NGO-RH-EXT	.960”-14NGO-RH-INT (6)	**MB-580-7***

2” Hex Manifold Blocks (with Female Ports)

Connection	Material	PSI	Part No.
1/4” FNPT (6)	Brass	3000	**MB-6**
1/4” FNPT (6)	SS	6000	**MB-6SS**
1/4” FNPT (7)	Brass	3000	**MB-7**
1/4” FNPT (7)	SS	6000	**MB-7SS**
1/4” FNPT(6) x 1/2”FNPT(2)	Brass	4500	**GMA-SCMB**



MB-7

MB-6SS

GMA-SCMB

ERGONOMIC DESIGN

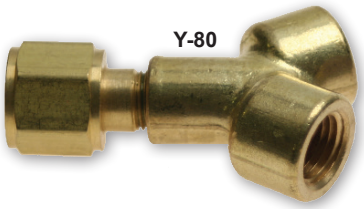
YV-50

YV-420

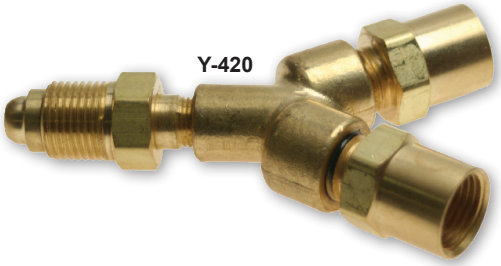
“Y” Connectors With Shut-Off Valves

200 PSI

Service	Inlets	Outlets	Part No.
Oxygen	“B” 9/16”-18-RH-INT Swivel Nut	“B” 9/16”-18-RH-EXT	**YV-50**
Fuel Gas	“B” 9/16”-18-LH-INT Swivel Nut	“B” 9/16”-18-LH-EXT	**YV-51**
Argon	“B” 5/8”-18-RH-EXT Swivel Nut	“B” 5/8”-18-RH-INT	**YV-420**
Air-Water	“B” 5/8”-18-LH-EXT Swivel Nut	“B” 5/8”-18-LH-INT	**YV-421**



Y-80

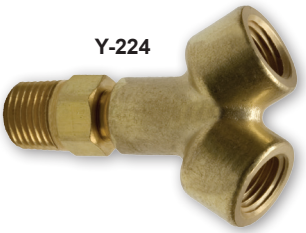


Y-420

“Y” Connectors Without Shut-Off Valves

200 PSI

Service	Inlets	Outlets	Part No.
Oxygen	“B” 9/16”-18-RH-INT Swivel Nut	“B” 9/16”-18-RH-EXT	**Y-50**
Oxygen	“B” 9/16”-18-RH-INT Swivel Nut	1/4” FNPT	**Y-80**
Fuel Gas	“B” 9/16”-18-LH-INT Swivel Nut	“B” 9/16”-18-LH-EXT	**Y-51**
Fuel Gas	“B” 9/16”-18-LH-INT Swivel Nut	1/4” FNPT	**Y-81**
Argon	5/8”-18-RH-EXT Swivel Nut	“B” 5/8”-18-RH-INT	**Y-420**
Air-Water	5/8”-18-LH-EXT Swivel Nut	“B” 5/8”-18-LH-INT	**Y-421**



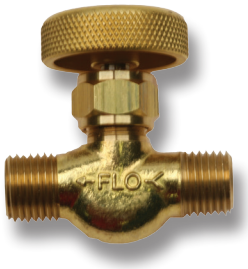
Y-224

“Y” Connectors With Pipe Threads

3,000 PSI

Service	Inlets	Outlets	Part No.
Non-Corrosive Gases	1/8” FNPT	1/4” FNPT	**Y-184**
Non-Corrosive Gases	1/4” MNPT	1/4” FNPT	**Y-224**

Brass Seat Shut-Off Valves



V-88

200 PSI

Service	Inlet	Outlet	Part No.
Oxygen	“B” 9/16”-18-RH-EXT	“B” 9/16”-18-RH-EXT	**V-50**
Oxygen	“B”” 9/16”-18-RH-INT Swivel Nut	“B” 9/16”-18-RH-EXT	**V-52**
Oxygen	“B” 9/16”-18-RH-EXT	1/4” MNPT	**V-76**
Oxygen	1/4” MNPT	“B” 9/16”-18-RH-EXT	**V-88**
Fuel Gas	1/4” NPT-M	“B” 9/16”-18LH-EXT	**V-89**
Fuel Gas	“A” 3/8”-24-LH-EXT	1/8” NPT-Male	**V-25**
Fuel Gas	“B” 9/16”-18-LH-EXT	“B” 9/16”-18-LH-EXT	**V-51**
Fuel Gas	“B” 9/16”-18-LH-INT Swivel Nut	“B” 9/16”-18-LH-EXT	**V-53**
Fuel Gas	“B” 9/16”-18-LH-EXT	1/8” MNPT	**V-69**
Fuel Gas	“B” 9/16”-18-LH-EXT	1/4” MNPT	**V-77**
Fuel Gas	“B” 9/16”-18-LH-EXT	1/4” FNPT	**V-81**
Argon	5/8” -18-RH-EXT Swivel Nut “B”	5/8” -18-RH-INT “B”	**V-420**
Argon	1/4” NPT-M	5/8” -18-RH-INT“B”	**V-454**

V-335

3000 PSI

All Gases	1/8” MNPT	1/8” MNPT	**V-301**
All Gases	1/4” FNPT	1/4” FNPT	**V-332**
All Gases	1/4” MNPT	1/4” MNPT	**V-333**
All Gases	1/4” FNPT	1/4” MNPT	**V-334**
All Gases	1/4” MNPT	1/4” FNPT	**V-335**

Dust Cap & Chain Assemblies (Non-Gas Tight)

Dust caps are one-piece blind nuts used to protect threads and keep some contamination from cylinder valves. CGA thread specifications are used, but they do not make a gas tight seal.

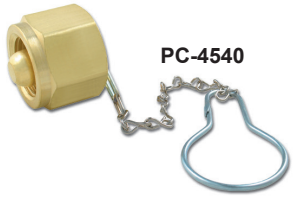
CC-8540
Oxygen

CGA No.	Gases	Connection	Part No.
022	Oxygen Std.	“B”9/16” -18-RH-INT	**CC-8020**
023	Fuel Gas Std.	“B”9/16” -18-LH-INT	**CC-8021**
024	Oxygen	“C”7/8”-14-RH-INT	**CC-8034**
025	Fuel Gas	“C”7/8”-14-LH-INT	**CC-8035**
300	Ethyl Chloride Acetylene	.830”-14NGO-RH-INT	**CC-8300**
320	Carbon Dioxide	.830”-14NGO-RH-INT	**CC-8320**
346	Air	.830”-14NGO-RH-INT	**CC-8346**
350	Hydrogen/Methane	.830”-14NGO-LH-INT	**CC-8350**
500	Medical Mixture	.880”-14NGO-RH-EXT	**CC-8500**
510	Acetylene/Propane	.880”-14NGO-LH-EXT	**CC-8510**
540	Oxygen	.908”-14NGO-RH-INT	**CC-8540**
555	Propane Liquid Withdrawal	.908”-14NGO-LH-INT	**CC-8555**
580	Argon, Helium, Nitrogen	.960”-14NGO-RH-EXT	**CC-8580**
660	Refrigeration Gases	1.035”-14NGO-RH-INT	**CC-8660**

brass plugs & plug & chain assemblies

Two-Piece Assemblies

These two-piece nut and blind nipple assemblies are made to CGA standards and make a gas tight seal.



PC-4540

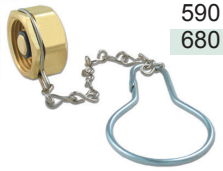
PC-4510

CGA No.	Gases	Connection	Gas Seal (PSI)	Part No.
022	Oxygen	“B”9/16 -18-RH-INT	200	**PC-4020**
023	Fuel Gas	“B”9/16 -18-LH-INT	200	**PC-4021**
024	Oxygen	“C”7/8”-14-RH-INT	200	**PC-4034**
025	Fuel Gas	“C”7/8”-14-LH-INT	200	**PC-4035**
026	Oxygen	“D”1-1/4”-12-RH-INT	200	**PC-4042**
027	Fuel Gas	“D”1-1/4”-12-LH-INT	200	**PC-4043**
032	Inert Gas	“B”5/8”-18-RH-EXT	200	**PC-4024**
033	Air-Water	“B”5/8”-18-LH-EXT	200	**PC-4025**
032	Inert Gas	“B”5/8”-18-RH-INT	200	**PC-4026**
034	Inert Gas	“C”7/8”-14-RH-EXT	200	**PC-4036**
320	Carbon Dioxide	.830”-14NGO-RH-INT	3000	**PC-4320**
326	Nitrous Oxide	.830”-14NGO-RH-INT	3000	**PC-4326**
347	Air	.830”-14NGO-RH-INT	5500	**PC-4347**
350	Hydrogen/Methane	.830”-14NGO-LH-INT	3000	**PC-4350**
510	Acetylene/Propane	.880”-14NGO-LH-EXT	500	**PC-4510**
520	Acetylene	.899”-18NGO-RH-INT	500	**PC-4520**
540	Oxygen	.908”-14NGO-RH-INT	3000	**PC-4540**
555	Propane	.908”-14NGO-LH-INT	3000	**PC-4555**
580	Argon/Helium/Nitrogen	.960”-14NGO-RH-EXT	3000	**PC-4580**
680	Argon/Helium/Nitrogen	1.040”-14NGO-RH-EXT	5500	**PC-4680**

One-Piece Assemblies - With Chain

These shorter one-piece plug and chains can be used, where space is limited, to seal off cylinder valves and still be able to install the cylinder valve cap. The part makes a gas tight seal. Nipples have replaceable soft tips or o-rings.

PC-580
Argon, Helium, Nitrogen



PC-540
Oxygen

CGA No.	Gases	Connection	Gas Seal(PSI)	Part No.
320	Carbon Dioxide	.830”-14NGO-RH-INT	3000	**PC-320**
326	Nitrous Oxide	.830”-14NGO-RH-INT	3000	**PC-326**
330	Non-Corrosive Gas	.830”-14NGO-LH-INT	3000	**PC-330**
346	Air	.830”-14NGO-RH-INT	3000	**PC-346**
350	Hydrogen/Methane	.830”-14NGO-RH-INT	3000	**PC-350**
510	Acetylene/Propane	.880”-14NGO-LH-EXT	500	**PC-510**
540	Oxygen	.908”-14NGO-LH-INT	3000	**PC-540**
555	Propane	.908”-14NGO-LH-INT	3000	**PC-555**
580	Argon/Helium/Nitrogen	.960”-14NGO-RH-EXT	3000	**PC-580**
590	Sulfur Hexafluoride/Ind. Air	.960”-14NGO-LH-EXT	3000	**PC-590**
680	Argon/Helium/Nitrogen	.960”-14NGO-RH-EXT	4700	**PC-680**

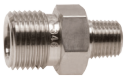
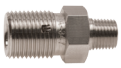
One-Piece Assemblies - Without Chain

These shorter one-piece plugs (sold without chains) can be used, where space is limited, to seal off cylinder valves and still be able to install the cylinder valve cap. The part makes a gas tight seal. Nipples have replaceable soft tips or o-rings.

P-580
Argon, Helium, Nitrogen

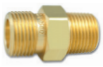
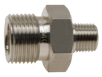
P-540
Oxygen

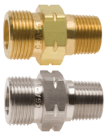
CGA No.	Gases	Connection	Gas Seal(PSI)	Part No.
022	Oxygen	9/16”-18RH-INT	200	**P-022**
023	Fuel Gas	9/16”-18LH-INT	200	**P-023**
024	Oxygen	7/8”-14RH-INT	200	**P-024**
025	Fuel Gas	7/8”-14LH-INT	200	**P-025**
026	Oxygen	1.25”-12RH-INT	200	**P-026**
027	Fuel Gas	1.25”-12LH-INT	200	**P-027**
032	Inert	5/8”-18RH-EXT	200	**P-032**
032	Inert	5/8”-18RH-INT	200	**P-032INT**
033	Industrial Air	5/8”-18LH-EXT	200	**P-033**
034	Inert	7/8”-14RH-EXT	200	**P-034**
200	Acetylene “MC”	.625”-20RH-INT	500	**P-200**
300	Acetylene	.830”-14NGO-RH-INT	500	**P-300**
320	Carbon Dioxide	.830”-14NGO-RH-INT	3000	**P-320**
326	Nitrous Oxide	.830”-14NGO-RH-INT	3000	**P-326**
330	Non-Corrosive Gas	.830”-14NGO-LH-INT	3000	**P-330**
346	Air	.830”-14NGO-RH-INT	3000	**P-346**
350	Hydrogen/Methane	.830”-14NGO-RH-INT	3000	**P-350**
510	Acetylene/Propane	.880”-14NGO-LH-EXT	500	**P-510**
540	Oxygen	.908”-14NGO-LH-INT	3000	**P-540**
555	Propane	.908”-14NGO-LH-INT	3000	**P-555**
580	Argon/Helium/Nitrogen	.960”-14NGO-RH-EXT	3000	**P-580**
590	Sulfur Hexafluoride/Ind. Air	.960”-14NGO-LH-EXT	3000	**P-590**

	CGA No.	Valve Outlet Adaptors Gas	Male & Female Pipe Threads Connection x NPT	Material	PSI	Part No.
Male NPT	180	Non-Corrosive	.620”-18UNF-2B-RH-EXT x 1/4 MNPT	Brass	3,000	**A-518**
	180	Non-Corrosive	.620”-18UNF-2B-RH-EXT x 1/4 MNPT	SS	3,000	**A-518SS**
Female NPT	296	Industrial Oxygen Mixtures	.803” UNS-2B-RH-INT x 1/4 FNPT	Brass	3,000	**N-853A**
Male NPT	300	Ethyl Chloride (formerly Acetylene)	.825” 14NGO-RH-EXT x 1/4 MNPT	Brass	500	**A-531**
	300	Ethyl Chloride (formerly Acetylene)	.825” 14NGO-RH-EXT x 1/2 MNPT	Brass	500	**A-533**
Male NPT	320	Carbon Dioxide	.825” 14NGO-RH-EXT x 1/4 MNPT	Brass	3,000	**A-541**
	320	Carbon Dioxide	.825” 14NGO-RH-EXT x 3/8 MNPT	Brass	3,000	**A-542**
	320	Carbon Dioxide	.825” 14NGO-RH-EXT x 1/2 MNPT	Brass	3,000	**A-543**
	320	Carbon Dioxide w/ Check Valve	.825” 14NGO-RH-EXT x 1/2 MNPT	Brass	3,000	**A-543CV**
Female NPT	320	Carbon Dioxide	.825” 14NGO-RH-EXT x 1/4 FNPT	Brass	3,000	**N-854A**
	330	Carbon Sulfide	.825” 14NGO-LH-EXT x 1/4 FNPT	Brass	3,000	**N-330A**
Male NPT	326	Nitrous Oxide	.825” 14NGO-RH-EXT x 1/4 MNPT	Brass	3,000	**A-631**
	326	Nitrous Oxide	.825” 14NGO-RH-EXT x 1/4 MNPT	CP Brass	3,000	**MA-631**
	326	Nitrous Oxide	.825” 14NGO-RH-EXT x 3/8 MNPT	Brass	3,000	**A-632**
	326	Nitrous Oxide w/ Check Valve	.825” 14NGO-RH-EXT x 3/8 MNPT	Brass	3,000	**A-632CV**
	326	Nitrous Oxide	.825” 14NGO-RH-EXT x 1/2 MNPT	Brass	3,000	**A-633**
	326	Nitrous Oxide w/ Check Valve	.825” 14NGO-RH-EXT x 1/2 MNPT	Brass	3,000	**A-633CV**
Female NPT	326	Nitrous Oxide	.825” 14NGO-RH-EXT x 1/4 FNPT	Brass	3,000	**N-811A**
	326	Nitrous Oxide	.825” 14NGO-RH-EXT x 1/4 FNPT	CP Brass	3,000	**MN-326A**
Male NPT 	346	Air	.825” 14NGO-RH-EXT x 1/4 MNPT	Brass	3,000	**A-641**
	346	Air	.825” 14NGO-RH-EXT x 1/4 MNPT	CP Brass	3,000	**MA-641**
	346	Air	.825” 14NGO-RH-EXT x 1/4 MNPT	SS	3,000	**A-641SS**
	346	Air w/ Check Valve	.825” 14NGO-RH-EXT x 3/8 MNPT	Brass	3,000	**A-642CV**
	346	Air	.825” 14NGO-RH-EXT x 1/2 MNPT	Brass	3,000	**A-643**
	346	Air w/ Check Valve	.825” 14NGO-RH-EXT x 1/2 MNPT	Brass	3,000	**A-643CV**
Female NPT	346	Air	.825” 14NGO-RH-EXT x 1/4 FNPT	Brass	3,000	**N-866A**
	346	Air	.825” 14NGO-RH-EXT x 1/4 FNPT	SS	3,000	**N-866A-SS**
	346	Air	.825” 14NGO-RH-EXT x 1/4 FNPT	CP Brass	3,000	**MN-346A**
Male NPT 	347	Air	.825” 14NGO-RH-EXT x 1/4 MNPT	Brass	4,700	**A-661**
	347	Air	.825” 14NGO-RH-EXT x 1/4 MNPT	SS	4,700	**A-661SS**
	347	Air	.825” 14NGO-RH-EXT x 1/2 MNPT	Brass	4,700	**A-663**

(347 continue next page)

valve outlet adaptors

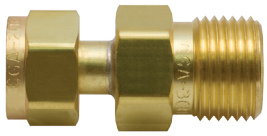
	CGA No. Gas	Valve Outlet Adaptors	Male & Female Pipe Threads Connection x NPT	Material	PSI	Part No.
Female NPT	347	Air	.825” 14NGO-RH-EXT x 1/4 FNPT	Brass	4,700	**N-347A**
	347	Air	.825” 14NGO-RH-EXT x 1/4 FNPT	SS	4,700	**N-347A-SS**
Male NPT	350	Hydrogen/Methane/Natural Gas	.825” 14NGO-LH-EXT x 1/4 MNPT	Brass	3,000	**A-551**
	350	Hydrogen/Methane/Natural Gas	.825” 14NGO-LH-EXT x 1/2 MNPT	Brass	3,000	**A-553**
Female NPT	350	Hydrogen/Methane/Natural Gas	.825” 14NGO-LH-EXT x 1/4 FNPT	Brass	3,000	**N-874A**
	350	Hydrogen/Methane/Natural Gas	.825” 14NGO-LH-EXT x 1/4 FNPT	SS	3,000	**N-874A-SS**
	350	Hydrogen/Methane/Natural Gas	.825” 14NGO-LH-EXT x 1/4 FNPT	CP Brass	3,000	**MN-350A**
Female NPT	410	Canadian Acetylene	.850” 14NGO-LH-EXT x 1/4 FNPT	Brass	500	**N-836A**
Male NPT	500	Medical Mixtures	.885” 14NGO-RH-INT x 1/4 MNPT	Brass	3,000	**A-571**
	500	Medical Mixtures w/ Check Valve	.885” 14NGO-RH-INT x 3/8 MNPT	Brass	3,000	**A-572CV**
	500	Medical Mixtures w/ Check Valve	.885” 14NGO-RH-INT x 1/2 MNPT	Brass	3,000	**A-573CV**
Female NPT	500	Medical Mixtures	.885” 14NGO-RH-INT x 1/4 FNPT	Brass	3,000	**N-807A**
	500	Medical Mixtures	.885” 14NGO-RH-INT x 1/4 FNPT	CP Brass	3,000	**MN-500A**
Male NPT	510	Acetylene/Propane/Natural Gas	.885” 14NGO-LH-INT x 1/4 MNPT	Brass	500	**A-581**
	510	Acetylene/Propane/Natural Gas	.885” 14NGO-LH-INT x 1/2 MNPT	Brass	500	**A-583**
Female NPT	510	Acetylene/Propane/Natural Gas	.885” 14NGO-LH-INT x 1/4 FNPT	Brass	500	**N-800A**
	510	Acetylene/Propane/Natural Gas	.885” 14NGO-LH-INT x 1/4 FNPT	CP Brass	500	**MN-510A**
N-802A	510(90°)	Acetylene/Propane/Natural Gas	.885” 14NGO-LH-INT x 1/4 FNPT	Brass	500	**N-802A**
Male NPT 	540	Oxygen	.903” 14NGO-RH-EXT x 1/4 MNPT	Brass	3,000	**A-591**
	540	Oxygen	.903” 14NGO-RH-EXT x 1/4 MNPT	SS	3,000	**A-591SS**
	540	Oxygen	.903” 14NGO-RH-EXT x 3/8 MNPT	Brass	3,000	**A-592**
	540	Oxygen w/ Check Valve	.903” 14NGO-RH-EXT x 3/8 MNPT	Brass	3,000	**A-592CV**
	540	Oxygen	.903” 14NGO-RH-EXT x 1/2 MNPT	Brass	3,000	**A-593**
	540	Oxygen w/ Check Valve	.903” 14NGO-RH-EXT x 1/2 MNPT	Brass	3,000	**A-593CV**
Female NPT	540	Oxygen	.903” 14NGO-RH-EXT x 1/4 FNPT	Brass	3,000	**N-876A**
	540	Oxygen	.903” 14NGO-RH-EXT x 1/4 FNPT	SS	3,000	**N-876A-SS**
	540	Oxygen	.903” 14NGO-RH-EXT x 1/4 FNPT	CP Brass	3,000	**MN-540A**
Male NPT	555	Propane/Butane for Liquid Withdrawal	.903” 14NGO-LH-EXT x 1/4 MNPT	Brass	3,000	**A-651**
	555	Propane/Butane for Liquid Withdrawal	.903” 14NGO-LH-EXT x 1/2 MNPT	Brass	3,000	**A-653**
Female NPT	555	Propane/Butane for Liquid Withdrawal	.903” 14NGO-LH-EXT x 1/4 FNPT	Brass	3,000	**N-885A**
Male NPT	577	Oxygen	.960” 14NGO-RH-EXT x 1/2 MNPT	Brass	3,500	**A-563**
Female NPT	577	Oxygen	.960” 14NGO-RH-EXT x 1/4 FNPT	Brass	3,500	**N-577A**

	CGA No. Gas	Valve Outlet Adaptors	Male & Female Pipe Threads Connection x NPT	Material	PSI	Part No.
Male NPT	580	Argon/Helium/Nitrogen	.965” 14NGO-RH-INT x 1/4 MNPT	Brass	3,000	A-601
	580	Argon/Helium/Nitrogen	.965” 14NGO-RH-INT x 3/8 MNPT	Brass	3,000	A-602
	580	Argon/Helium/Nitrogen w/ Check Valve	.965” 14NGO-RH-INT x 3/8 MNPT	Brass	3,000	A-602CV
	580	Argon/Helium/Nitrogen	.965” 14NGO-RH-INT x 1/2 MNPT	Brass	3,000	A-603
	580	Argon/Helium/Nitrogen w/ Check Valve	.965” 14NGO-RH-INT x 1/2 MNPT	Brass	3,000	A-603CV
	580	Argon/Helium/Nitrogen	.965” 14NGO-RH-INT x 3/4 MNPT	Brass	3,000	A-605
Female NPT	580	Argon/Helium/Nitrogen	.965” 14NGO-RH-INT x 1/4 FNPT	Brass	3,000	N-862A
	580	Argon/Helium/Nitrogen	.965” 14NGO-RH-INT x 1/4 FNPT	SS	3,000	N-862ASS
	580	Argon/Helium/Nitrogen	.965” 14NGO-RH-INT x 1/4 FNPT	CP Brass	3,000	MN-580A
Male NPT	590	Sulfur Hexafluoride/Industrial Air	.965” 14NGO-LH-INT x 1/4 MNPT	Brass	3,000	A-611
	590	Sulfur Hexafluoride/Industrial Air	.965” 14NGO-LH-INT x 1/2 MNPT	Brass	3,000	A-613
Female NPT	590	Sulfur Hexafluoride/Industrial Air	.965” 14NGO-LH-INT x 1/4 FNPT	Brass	3,000	N-954A
	590	Sulfur Hexafluoride/Industrial Air	.965” 14NGO-LH-INT x 1/4 FNPT	CP Brass	3,000	MN-590A
Male NPT	622	Carbon Dioxide Liquid Withdrawal	1.030” 14NGO-RH-EXT x 3/8 MNPT	Brass	500	A-722
Male NPT	624	Nitrous Oxide Liquid Withdrawal	1.030” 14NGO-RH-EXT x 3/8 MNPT	Brass	500	A-732
Female NPT	660	Refrigerant Gases	1.030” 14NGO-RH-EXT x 1/4 FNPT	Brass	3,000	N-880A
	660	Refrigerant Gases	1.030” 14NGO-RH-EXT x 1/4 FNPT	CP Brass	3,000	MN-660A
Male NPT 	677	Argon/Helium/Nitrogen	1.030” 14NGO-LH-EXT x 1/4 MNPT	Brass	6,400	A-671
	677	Argon/Helium/Nitrogen	1.030” 14NGO-LH-EXT x 1/4 MNPT	SS	6,400	A-671SS
	677	Argon/Helium/Nitrogen	1.030” 14NGO-LH-EXT x 1/2 MNPT	Brass	6,400	A-673
	677	Argon/Helium/Nitrogen	1.030” 14NGO-LH-EXT x 1/2 MNPT	SS	6,400	A-673SS
Female NPT	677	Argon/Helium/Nitrogen	1.030” 14NGO-LH-EXT x 1/4 FNPT	Brass	6,400	N-677A
	677	Argon/Helium/Nitrogen	1.030” 14NGO-LH-EXT x 1/4 FNPT	SS	6,400	N-677A-SS
Male NPT	680	Argon/Helium/Nitrogen	1.045” 14NGO-RH-INT x 1/4 MNPT	Brass	4,700	A-681
	680	Argon/Helium/Nitrogen	1.045” 14NGO-RH-INT x 1/2 MNPT	Brass	4,700	A-683
Female NPT	680	Argon/Helium/Nitrogen	1.045” 14NGO-RH-INT x 1/4 FNPT	Brass	4,700	N-680A
	680	Argon/Helium/Nitrogen	1.045” 14NGO-RH-INT x 1/4 FNPT	SS	4,700	N-680A-SS
Male NPT	701	Oxygen	1.103” 18NGO-RH-EXT x 1/2 MNPT	Brass	4,700	A-753
Female NPT	701	Oxygen	1.103” 18NGO-RH-EXT x 1/4 FNPT	Brass	4,700	N-701A
Male NPT	702	Air	1.125” 14NGO-RH-INT x 1/2 MNPT	Brass	6,400	A-763
Female NPT	702	Air	1.125” 14NGO-RH-INT x 1/4 FNPT	Brass	6,400	N-702A

brass cga cylinder to regulator adaptors

CGA 200-300	Part No.
500 PSI	A-775

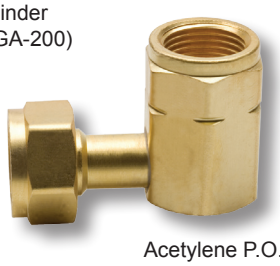
Acetylene Cylinder (CGA-200)



Commercial Acetylene Regulator (CGA-300)

CGA 200-510	Part No.
500 PSI	A-780

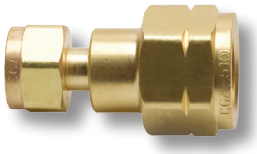
Acetylene Cylinder (CGA-200)



Acetylene P.O.L. Regulator (CGA-510)

CGA 200-510	Part No.
500 PSI	A-781

Acetylene "MC" Cylinder (CGA-200)



Acetylene P.O.L. Regulator (CGA-510)

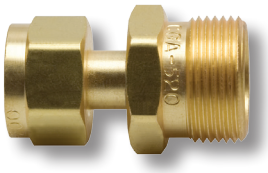
CGA 200-520	Part No.
500 PSI	A-783

Acetylene "MC" Cylinder (CGA- 200)

Acetylene B Regulator (CGA-520)

CGA 200-520	Part No.
500 PSI	A-784

Acetylene "MC" Cylinder (CGA-200)



Acetylene B Regulator (CGA-520)

CGA 280-540	Part No.
3000 PSI	A-789

Medical Breathing Mixtures CGA-280 Cylinder

Oxygen Regulator (CGA-540)

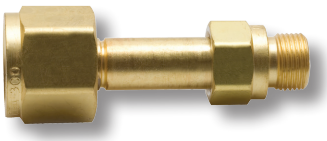
CGA 296-590	Part No.
3000 PSI	A-968

Industrial Oxygen Mixtures CGA-296 Cylinder

Industrial Air Regulator (CGA-590)

CGA 300-200	Part No.
500 PSI	A-792

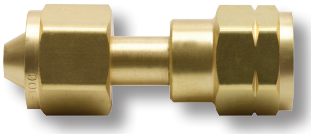
Commercial Acetylene Cylinder (CGA-300)



Acetylene "MC" Regulator (CGA-200)

CGA 300-510	Part No.
500 PSI	A-800

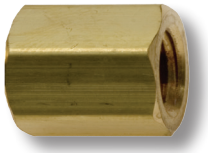
Commercial Acetylene Cylinder (CGA-300)



Acetylene P.O.L. Regulator (CGA-510)

CGA 300-510	Part No.
500 PSI	A-801

Commercial Acetylene Cylinder (CGA-300) 1 pc. Adaptor



Acetylene P.O.L. Regulator (CGA-510)

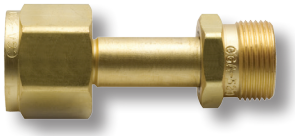
CGA 300-510	Part No.
500 PSI	A-802

Commercial Acetylene Cylinder (CGA-300)

510 Acetylene P.O.L. Regulator (CGA-510)

CGA 300-520	Part No.
500 PSI	A-804

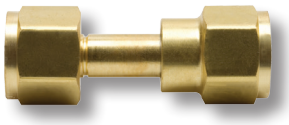
Commercial Acetylene Cylinder (CGA-300)



Acetylene B Regulator (CGA-520)

CGA 320-580	Part No.
3000 PSI	A-809

Carbon Dioxide Cylinder (CGA-320)



Argon, Helium, or Nitrogen Regulator (CGA-580)

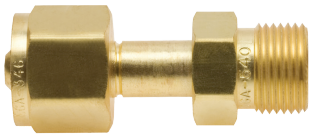
CGA 320-580	Part No.
3000 PSI	A-810

Carbon Dioxide Cylinder (CGA-320) 1 pc. Adaptor

Argon, Helium, or Nitrogen Regulator (CGA-580)

CGA 346-540	Part No.
3000 PSI	A-930

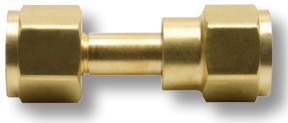
Air Cylinder (CGA-346)



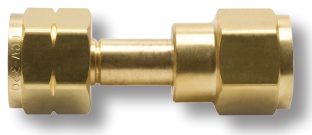
Oxygen Regulator (CGA-540)

CGA 346-580	Part No.
3000 PSI	A-935

Air Cylinder (CGA-346)



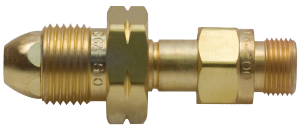
Argon, Helium, or Nitrogen Regulator (CGA-580)

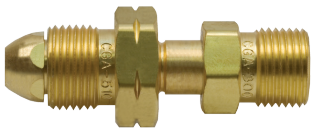
CGA 350-580	Part No.
3000 PSI	A-820
Hydrogen, Methane Cylinder (CGA-350)	
	
Argon, Helium, or Nitrogen Regulator (CGA-580)	

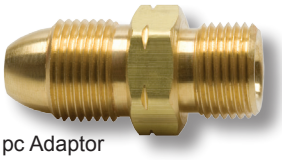
CGA 415-510	Part No.
500 PSI	A-827
Canadian L.A. Acetylene Cylinder (CGA-415)	
Acetylene P.O.L. Regulator (CGA-510)	

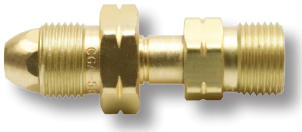
CGA 500-540	Part No.
3000 PSI	A-909
Medical Mixtures Cylinder (CGA-500)	
Oxygen Regulator (CGA-540)	

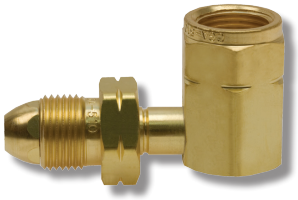
CGA 500-580	Part No.
3,000 PSI	A-912
Medical Mixtures Cylinder (CGA-500)	
Argon, Helium, or Nitrogen Regulator (CGA-580)	

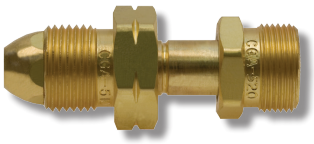
CGA 510-200	Part No.
500 PSI	A-828
Acetylene P.O.L. Cylinder (CGA-510)	
	
Acetylene "MC" Regulator (CGA-200)	

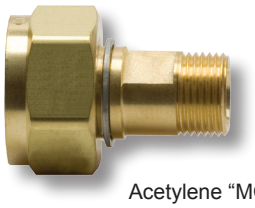
CGA 510-300	Part No.
500 PSI	A-830
Acetylene P.O.L. Cylinder (CGA-510)	
	
Commercial Acetylene Regulator (CGA-300)	

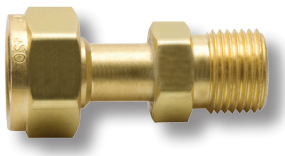
CGA 510-300	Part No.
500 PSI	A-831
Acetylene P.O.L. Cylinder (CGA-510)	
	
1 pc Adaptor	
Commercial Acetylene Regulator (CGA-300)	

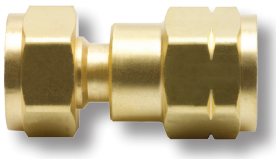
CGA 510-410	Part No.
500 PSI	A-836
Acetylene P.O.L. Cylinder (CGA-510)	
	
Canadian Acetylene Regulator (CGA-410)	

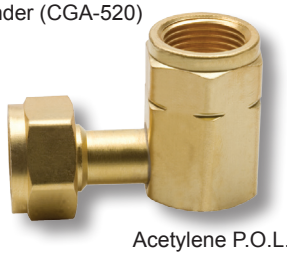
CGA 510-510	Part No.
500 PSI	A-838
Acetylene P.O.L. Cylinder (CGA-510)	
	
Acetylene P.O.L. Regulator (CGA-510)	

CGA 510-520	Part No.
500 PSI	A-840
Acetylene P.O.L. Cylinder (CGA-510)	
	
Acetylene B Regulator (CGA-520)	

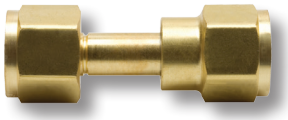
CGA 520-200	Part No.
500 PSI	A-842
Acetylene B Cylinder (CGA-520)	
	
Acetylene "MC" Regulator (CGA-200)	

CGA 520-300	Part No.
500 PSI	A-844
Acetylene B Cylinder (CGA-520)	
	
Commercial Acetylene Regulator (CGA-300)	

CGA 520-510	Part No.
500 PSI	A-848
Acetylene B Cylinder (CGA-520)	
	
Acetylene P.O.L. Regulator (CGA-510)	

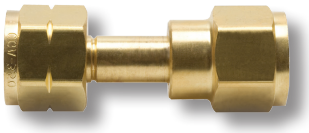
CGA 520-510	Part No.
500 PSI	A-850
Acetylene B Cylinder (CGA-520)	
	
Acetylene P.O.L. Regulator (CGA-510)	

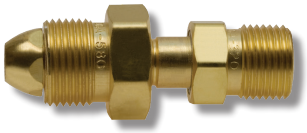
CGA 540-346	Part No.
3000 PSI	A-866
Oxygen Cylinder (CGA-540)	
Air Regulator (CGA-346)	

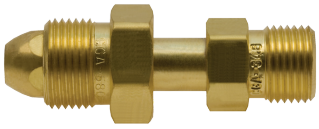
CGA 540-580	Part No.
3000 PSI	A-862
Oxygen Cylinder (CGA-540)	
	
Argon, Helium, or Nitrogen Regulator (CGA-580)	

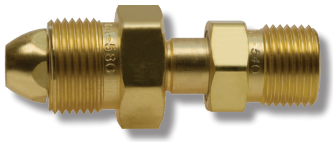
brass cga cylinder to regulator adaptors

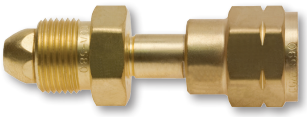
CGA 555-510	Part No.
500 PSI	A-948
Propane (L.W.) Cylinder (CGA-555)	
Acetylene P.O.L. Regulator (CGA-510)	

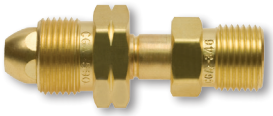
CGA 555-580	Part No.
3000 PSI	A-952
Propane (L.W.) Cylinder (CGA-555)	
	
Argon, Helium, or Nitrogen Regulator (CGA-580)	

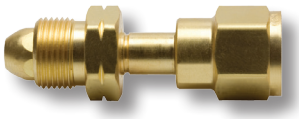
CGA 580-320	Part No.
3000 PSI	A-870
Argon, Helium, or Nitrogen Cylinder (CGA-580)	
	
Carbon Dioxide Regulator (CGA-320)	

CGA 580-346	Part No.
3000 PSI	A-882
Argon, Helium, or Nitrogen Cylinder (CGA-580)	
	
Air Regulator (CGA-346)	

CGA 580-540	Part No.
3000 PSI	A-876
Argon, Helium, or Nitrogen Cylinder (CGA-580)	
	
Oxygen Regulator (CGA-540)	

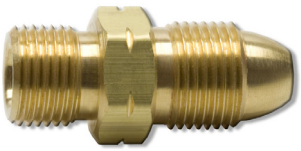
CGA 580-590	Part No.
3000 PSI	A-879
Argon, Helium, or Nitrogen Cylinder (CGA-580)	
	
Industrial Air Regulator (CGA-590)	

CGA 590-346	Part No.
3000 PSI	A-894
Industrial Air Cylinder (CGA-590)	
	
Air Regulator (CGA-346)	

CGA 590-580	Part No.
3000 PSI	A-892
Industrial Air Cylinder (CGA-590)	
	
Argon, Helium, or Nitrogen Regulator (CGA-580)	

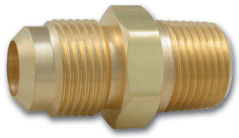
CGA 410-510	Part No.
500 PSI	A-837
Canadian Acetylene Cylinder (CGA-410)	
image not available	
Acetylene P.O.L. Regulator (CGA-510)	

CGA 500-590	Part No.
3000 PSI	A-910
Medical Mixtures Cylinder (CGA-500)	
image not available	
Industrial Air Regulator (CGA-590)	

CGA 510-555	Part No.
500 PSI	A-841
Acetylene P.O.L. Cylinder (CGA-510)	
	
Propane (L.W.) Regulator (CGA-555)	

FLARE TUBING ADAPTORS

500 PSI



FA-4404

CGA	Connection	Gas	Part No.
CGA 165 male	1/4” flare x 1/8” MNPT	Refrigerants	**FA-1651**
CGA 165 male	1/4” flare x 1/4” MNPT	Refrigerants	**FA-1652**
CGA 182 male	3/8” flare x 1/4” MNPT	Refrigerants	**FA-1822**
CGA 295 male	1/2” flare x 1/4” MNPT	Cryogenic Inert	**FA-2952**
CGA 295 male	1/2” flare x 3/8” MNPT	Cryogenic Inert	**FA-2953**
CGA 295 male	1/2” flare x 1/2” MNPT	Cryogenic Inert	**FA-2954**
CGA 440 male	5/8” flare x 1/4” MNPT	Cryogenic Oxygen	**FA-4402**
CGA 440 male	5/8” flare x 3/8” MNPT	Cryogenic Oxygen	**FA-4403**
CGA 440 male	5/8” flare x 1/2” MNPT	Cryogenic Oxygen	**FA-4404**
CGA 440 male	5/8” flare x 3/4” MNPT	Cryogenic Oxygen	**FA-4405**
CGA 450 LH male	5/8” flare x 1/4” MNPT	Methane, Natural Gas	**FA-4502**

CGA 440 Oxygen Cryogenic Transfer Hose

(B)=Brass Ends (S)=Stainless Steel Ends – Insert type of material.

500 PSI

STAINLESS STEEL
CHS-440-440-72

CGA 440 female both ends 48” long	CH( )-440-440-48
CGA 440 female both ends 60” long	CH( )-440-440-60
CGA 440 female both ends 72” long	CH( )-440-440-72
CGA 440 female both ends 120” long	CH( )-440-440-120
CGA 440 female both ends 144” long	CH( )-440-440-144

**Other lengths available. Call for part number.*

CGA 295 Nitrogen Cryogenic Transfer Hose

(B)=Brass Ends (S)=Stainless Steel Ends

500 PSI

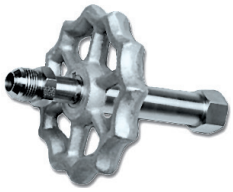
STAINLESS STEEL
CHS-295-295-72

CGA 295 female both ends 48” long	CH( )-295-295-48
CGA 295 female both ends 60” long	CH( )-295-295-60
CGA 295 female both ends 72” long	CH( )-295-295-72
CGA 295 female both ends 120” long	CH( )-295-295-120
CGA 295 female both ends 144” long	CH( )-295-295-144

Example - CHS-295-295-72 = CGA Stainless Steel ends 72” long

Quick Connect Handwheel

500 PSI



STAINLESS STEEL

Oxygen CGA 440 Handwheel	**HTC-440**
Nitrogen/Inert CGA 295 Handwheel	**HTC-295**

Quick Connect Tee Handle

500 PSI

STAINLESS STEEL

Oxygen CGA 440 Tee Handle	**CHTE-440**
Nitrogen/Inert CGA 295 Tee Handle	**CHTE-295**

Cryogenic Phase Separator

500 PSI

STAINLESS STEEL

3/8” female NPT	**CPS-001**

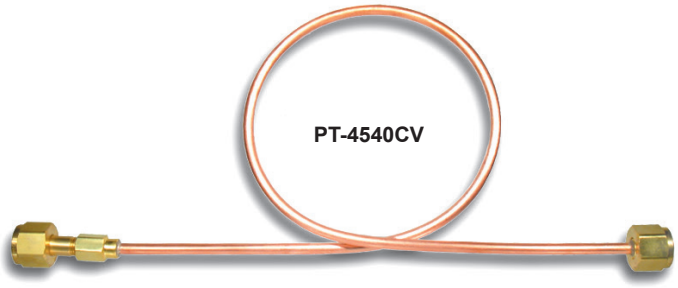
Fill Elbow

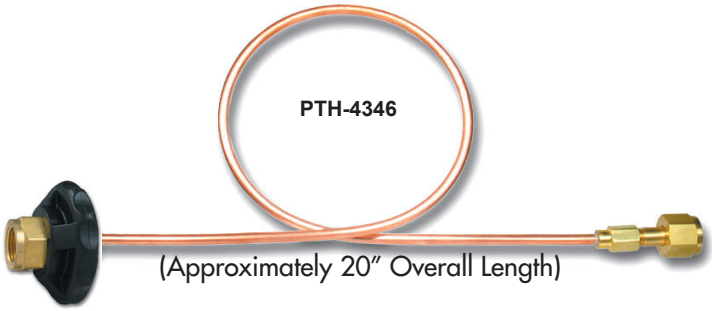
500 PSI

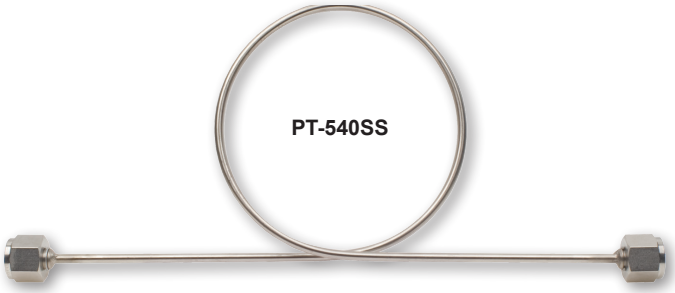
STAINLESS STEEL

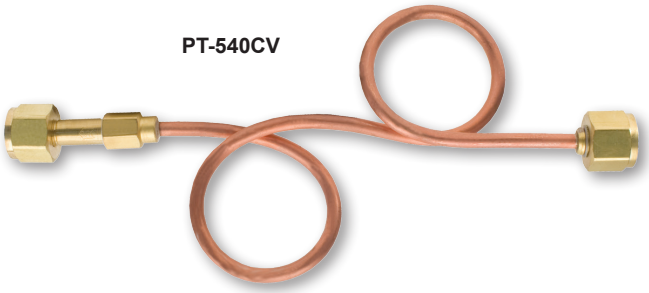
Oxygen CGA 440	**CEL-440**
Nitrogen/Inert CGA 295	**CEL-295**

rigid copper & stainless steel pigtails









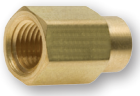
Rigid Pigtail Assemblies with Single & Double Loop

CGA No.	Operating Pressure (PSI)	Standard Pigtail	Plastic H.T. Nut-One End	Brass Wrench One End	S.S. Tube & S.S Ends	Copper pigtail 2 loops,brass ends
300	250	*PT-3300	*PTH-3300	*PTW-3300	N/A	*PT-300
320	3000	PT-4320	PTH-4320	PTW-4320	PT-320SS	PT-320
326	3000	PT-4326	PTH-4326	PTW-4326	PT-326SS	PT-326
346	3000	PT-4346	PTH-4346	PTW-4346	PT-346SS	PT-346
350	3000	PT-4350	PTH-4350	PTW-4350	PT-350SS	PT-350
510	500	PT-4510	PTH-4510	PTW-4510	PT-510SS	PT-510
510-90°	250	*PT-3510	*PTH-3510	*PTW-3510	N/A	N/A
540	3000	PT-4540	PTH-4540	PTW-4540	PT-540SS	PT-540
580	3000	PT-4580	PTH-4580	PTW-4580	PT-580SS	PT-580
590	3000	PT-4590	PTH-4590	PTW-4590	PT-590SS	PT-590

To add check valve to inlet, add "CV". For reverse check valve on outlet, add "RCV" (see pg. 23 for explanation).
*** All pigtails designated for Acetylene service are built with brass tubing.**

Annealed Copper Coiled Tubing 3000 psi	Part No.
Seamless copper tubing 1/4"O.D. x .065 wall	**CT-44**
Seamless copper tubing 5/16"O.D. x .065 wall	**CT-45**
50 ft. Rolls, Not Cleaned for 02 service	

NPT ends for copper & brass tubing 3000 psi	Part No.
Male 1/4" NPT x 5/16" O.D. Tubing	**XPTE-004C3**
Female 1/4" NPT x 1/4" O.D. Tubing	**XPTE-005C2**
Female 1/4" NPT x 1/4" O.D. Tubing, Stainless Steel	**XPTE-005C2SS**
Female 1/4" NPT x 5/16" O.D. Tubing	**XPTE-005C3**


XPTE-005C3

XPTE-004C3

Snap rings for pigtail nut & nipples	
Snap Ring - Secures Nut to Nipple	**XSR-020**
Standard package of 25	

XSR-020

min. length=6"
max length=600"

PTFE/STAINLESS BRAIDED HOSE

3000 PSI WORKING PRESSURE

EXAMPLE	PTF	-	580H	-	580	-	24
	Hose Type		Inlet		Outlet		Length

Superior PTF Series PTFE Lined Stainless Braided Pigtails are designed for 3000 PSI working pressure for a broad range of applications. Comes standard with stainless steel ferrules for longer service life. Available with Armor Guard or spring guard.

Not recommened for lighter than air gases based on effusion

EXAMPLE:
PTF-580H-580-24

Specifications:
- 1/4" Nominal I.D.
- Braid is Type 304 stainless steel
- Temperature rating -65°F to 450°F
- Burst pressure is 12,000 PSI at room temperature
- Minimum bend radius of 3 inches for maximum safety & life

ETFE/STAINLESS BRAIDED HOSE

3000 PSI WORKING PRESSURE

EXAMPLE	PTFT	-	34I	-	34I	-	24
	Hose Type		Inlet		Outlet		Length

For use in Helium and Hydrogen gas service to reduce effusion of lighter than air gases. ETFE Hose is also good for high purity applications where off gassing of hydrocarbons and low diffusion rate is a concern. Please note ETFE has a lower diffusion rate than PTFE, although it does not provide zero effusion. For zero effusion, use rigid copper, brass or stainless steel. Available with Armor Guard or spring guard.

EXAMPLE:
PTFT-34I-34I-24

Specifications:
- 1/4" Nominal I.D.
- Braid is Type 304 stainless steel, lining is ETFE
- Temperature rating -65°F to 450°F
- Burst pressure is 12,000 PSI at room temperature
- Minimum bend radius of 3 inches for maximum safety & life

NYLON SYNTHETIC BRAIDED HOSE

3000 PSI WORKING PRESSURE

EXAMPLE	PTFN	-	N 34I	-	N34I	-	24
	Hose Type		Inlet		Outlet		Length

For use in Helium and Hydrogen gas service to reduce effusion of lighter than air gases. Please note synthetic nylon tube has a lower diffusion rate than PTFE, although it does not provide zero effusion. For zero effusion, use rigid copper, brass or stainless steel. Available with Armor Guard or spring guard.

Not for oxygen service

EXAMPLE:
PTFN-N34I-N34I-24

Specifications:
- 1/4" Nominal I.D.
- Braid is synthetic fiber, lining is extruded nylon, polyurethane cover
- Temperature rating -40°F to 212°F
- Burst pressure is 12,000 PSI at room temperature
- Minimum bend radius of 3 inches for maximum safety & life

PTFE/STAINLESS DOUBLE BRAIDED HOSE

6000 PSI WORKING PRESSURE

EXAMPLE	PTF6	-	680	-	641SS	-	24
	Hose Type		Inlet		Outlet		Length

For newer high pressure CGA's. PTFE lined, stainless braided hose for 6000 PSI working pressure. (NOT available with Armor Guard.)

EXAMPLE:
PTF6-680-64ISS-24

Specifications:
- 1/4" Nominal I.D.
- Braid is Type 304 stainless steel
- Temperature rating -65°F to 450°F
- Burst pressure is 24,000 PSI at room temperature
- Minimum bend radius of 3 inches for maximum safety & life

POST SINTERED, DOUBLE BRAIDED, PTFE HOSE

3600 PSI WORKING PRESSURE

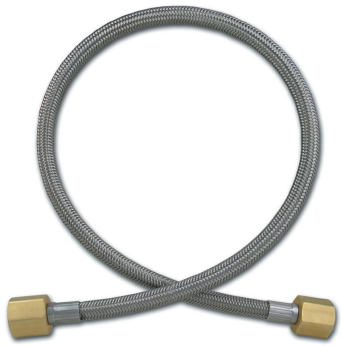
EXAMPLE	PTF36	-	34I	-	34I	-	24
	Hose Type		Inlet		Outlet		Length

For newer high pressure CGA's. PTFE lined, stainless braided hose is available with or without Armor Guard for 3,600 PSI working pressure.

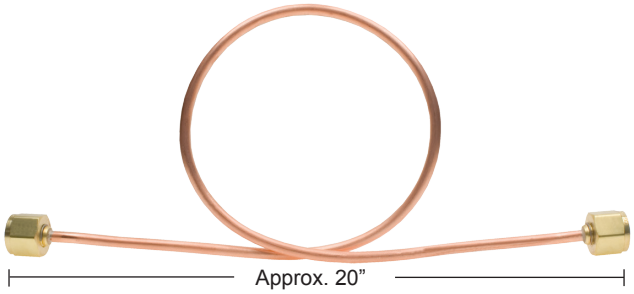
EXAMPLE:
PTF36-34I-34I-24

Specifications:
- 1/4" Nominal I.D.
- Braid is Type 304 stainless steel
- Temperature rating -65°F to 450°F
- Burst pressure is 14,400 PSI at room temperature
- Minimum bend radius of 3 inches for maximum safety & life

NFPA Replacement Pigtails for Hospital Medgas Systems



- 304 Stainless Steel Braid
- PTFE Core
- 3,000 PSI Working Pressure
- 100% Leak Tested & Bagged
- Permanent non removable CGA fitting ends per NFPA code
- Stainless Steel Braid not for use with Oxygen



- **Annealed Copper Tubing**
- **5/16” OD x .065 wall**
- **Silver Brazed End Fittings**
- **3,000 PSI Working Pressure**
- **Permanent non removable CGA fitting ends per NFPA code**

Gas Service	Inlet/Outlet Threads	Hose Materials	Part No.
Carbon Dioxide	CGA 320 Female Nut	Stainless Steel/Teflon	**PTFP-320-24 or 36**
Nitrous Oxide	CGA 326 Female Nut	Stainless Steel/Teflon	**PTFP-326-24 or 36**
Medical Air	CGA 346 Female Nut	Stainless Steel/Teflon	**PTFP-346-24 or 36**
Medical Mixture	CGA 500 Male Nut	Stainless Steel/Teflon	**PTFP-500-24 or 36**
Nitrogen, Helium	CGA 580 Male Nut	Stainless Steel/Teflon	**PTFP-580-24 or 36**
Oxygen	CGA 540 Female Nut	Copper/Brass ends	**PT-4540**
Nitrous Oxide	CGA 326 Female Nut	Copper/Brass ends	**PT-4326**

72” Liquid Cylinder Gas Use Pigtails

for use with Dewar manifold systems

- Black polyester blend perforated cover
- 3/8” ID Nylon Core
- 2,250 PSI Working Pressure
- Temperature rating -70F to +212F
- Permanent non removable CGA fitting ends per NFPA code

Gas Service	Inlet/Outlet Threads	Hose Material	Part No.
Carbon Dioxide	CGA 320 Female Nut	3/8” I.D. Nylon Tube	**PFSL-320-72**
Nitrous Oxide	CGA 326 Female Nut	3/8” I.D. Nylon Tube	**PFSL-326-72**
Medical Air	CGA 346 Female Nut	3/8” I.D. Nylon Tube	**PFSL-346-72**
Medical Mixture	CGA 500 Male Nut	3/8” I.D. Nylon Tube	**PFSL-500-72**
Oxygen	CGA 540 Female Nut	3/8” I.D. Nylon Tube	**PFSL-540-72**
Nitrogen, Helium	CGA 580 Male Nut	3/8” I.D. Nylon Tube	**PFSL-580-72**

The pigtails on this page are specially designed to meet the requirements of NFPA for Hospital medgas manifold systems. The major feature being NFPA’s requirement for permanent affixed ends to avoid cross connection through modification or switching of the nut and nipple to hook up a different gas than a system was designed for. The other requirement is a mandatory copper pigtail for use in high pressure oxygen service. Some states also require that because Nitrous Oxide is an oxidizer, copper is also required.

STANDARD 1/4 Inch Flexible PIGTAILS

- 304 Stainless Steel Braid
- PTFE or ETFE Core
- 3000 or 6000 PSI Working Pressure
- 100% Pressure Tested
- Cleaned & bagged for oxygen service
- Stainless Steel Collar

Stainless Steel Braided PTFE or ETFE with 1/4" NPT Female Brass Ends

Materials	Inlet Threads		Outlet Threads	Length	Part No.
PTFE core/SS braid, brass ends	1/4"NPT female	X	1/4"NPT female	18"	**PTF-34I-34I-18**
PTFE core/SS braid, brass ends	1/4"NPT female	X	1/4"NPT female	24"	**PTF-34I-34I-24**
PTFE core/SS braid, brass ends	1/4"NPT female	X	1/4"NPT female	36"	**PTF-34I-34I-36**
PTFE core/SS braid, brass ends	1/4"NPT female	X	1/4"NPT female	48"	**PTF-34I-34I-48**
ETFE core/SS braid, brass ends	1/4"NPT female	X	1/4"NPT female	18"	**PTFT-34I-34I-18**
ETFE core/SS braid, brass ends	1/4"NPT female	X	1/4"NPT female	24"	**PTFT-34I-34I-24**
ETFE core/SS braid, brass ends	1/4"NPT female	X	1/4"NPT female	36"	**PTFT-34I-34I-36**
ETFE core/SS braid, brass ends	1/4"NPT female	X	1/4"NPT female	48"	**PTFT-34I-34I-48**

Stainless Steel Double Braided PTFE with 1/4" NPT Female Stainless Steel Ends

Materials	Inlet Threads		Outlet Threads	Length	Part No.
PTFE core/SS braid, SS ends	1/4"NPT female	X	1/4"NPT female	18"	**PTF6-64ISS-64ISS-18**
PTFE core/SS braid, SS ends	1/4"NPT female	X	1/4"NPT female	24"	**PTF6-64ISS-64ISS-24**
PTFE core/SS braid, SS ends	1/4"NPT female	X	1/4"NPT female	36"	**PTF6-64ISS-64ISS-36**
PTFE core/SS braid, SS ends	1/4"NPT female	X	1/4"NPT female	48"	**PTF6-64ISS-64ISS-48**

SPECIAL CONFIGURED PIGTAILS

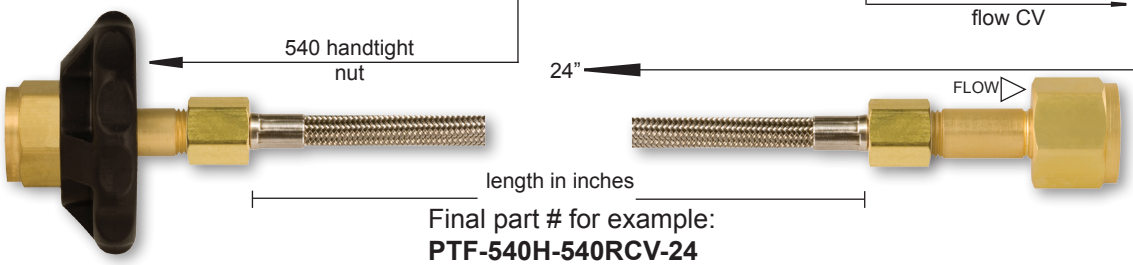
Ordering Information

Superior's flexible hose assemblies are made to order, tested and individually bagged. Each configured part number consists of four elements: (see below) The **1st** place holder specifies the type of hose, PTF etc. The **2nd** place holder specifies the inlet fitting and or accessories such as 540H = oxygen with a hand tight nut & nipple on the inlet. The **3rd** place holder specifies outlet connection and/or accessories. The **4th** place holder designates the length of hose in inches.

TYPE OF HOSE

PTF	PTFT	PTFN	PTF6	PTF36
3,000 PSI	3,000 PSI	3,000 PSI	6,000 PSI	3,600 PSI
PTFE TUBE TUBE	**ETFE TUBE**	**NYLON TUBE**	**PTFE TUBE**	**Post Sintered PTFE**
Stainless Steel BRAID	Stainless Steel BRAID	Synthetic BRAID	Stainless Steel DOUBLE BRAID	Stainless Steel DOUBLE BRAID

— END CONNECTION & ACCESSORIES STATED AS **CGA &** OPTIONS PG. 65 — END CONNECTION & ACCESSORIES STATED AS **CGA &** OPTIONS PG. 65 — LENGTH OF HOSE STATED IN INCHES



Final part # for example:
PTF-540H-540RCV-24

available hose options and features

Spring Guard is available for Superior's PTF, PTFT, PTF36 and PTFN Series hoses. Spring Guard provides protection from kinking and abrasion of your flexible hose. The crimped ends offer whip protection if the hose is severed.

Specification: Dependent on the type of hose being used (see available hoses on the previous page)

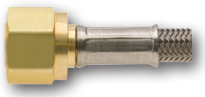
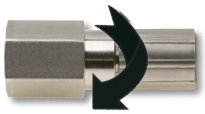
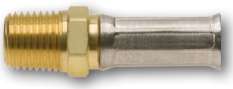
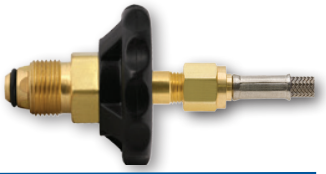
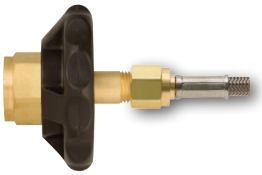
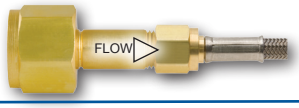
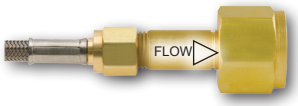
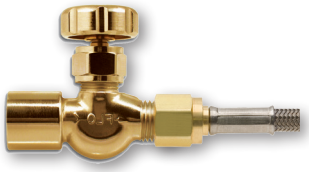
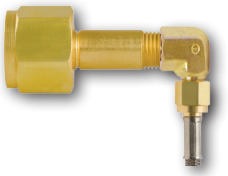
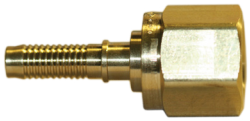
Minimum Length is 24"

Spring Guard Braided — PTFSG

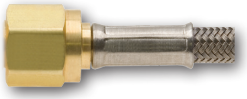
Armor guard Is available for Superior's PTF, PTFT, PTF36 and PTFN Series Stainless hoses. Armor Guard provides protection from cutting, kinking, abrasion, or crushing your flexible hose. The crimped ends offer whip protection if the hose is severed. Specifications: Dependent on the type of hose being used (see available hoses on the previous page)

Minimum Length is 24"

Armor Guard Protection — PTFG

Female NPT	xxx 34I		1/4" FNPT Swivel	SW	
Male NPT	xxx 34E		Male CGA Handtight	H	
Female CGA's	xxx 540		Female CGA Handtight	H	
Male CGA's	xxx 580		Flash Arrestor	FA	
Check Valve Nipple	CV		O2 Adibiatic Heat Sink End	HS	
Reverse Flow Check Valve Nipple	RCV		Valves	V	
Elbow	L		Outlet Adaptor	O	

Female NPT



Brass 1/8” Female NPT	=	32I
Brass 1/4” Female NPT	=	34I
Stainless Steel 1/4” Female NPT	=	34ISS
Brass 3/8” Female NPT	=	36I
Brass 1/2” Female NPT	=	38I

Male NPT

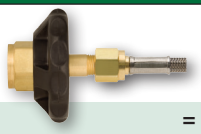
Brass 1/8” Male NPT	=	32E
Brass 1/4” Male NPT	=	34E
Stainless Steel 1/4” Male NPT	=	34ESS
Brass 3/8” Male NPT	=	36E
Brass 1/2” Male NPT	=	38E

Female CGA

CGA 280	=	280
CGA 300	=	300
CGA 320	=	320
CGA 326	=	326
CGA 330	=	330
CGA 346	=	346
CGA 350	=	350**
CGA 577	=	577*
CGA 701	=	701*

* Only on 6,000 PSI Hose (PTF6)
** Only with ETFE or Nylon Hose (PTFT/PTFN)

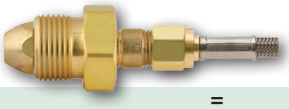
Handtight



CGA 300	=	300H
CGA 326	=	326H
CGA 346	=	346H
CGA 347	=	347H*
CGA 350	=	350H**
CGA 520	=	520H
CGA 540	=	540H
CGA 555	=	555H

* Only on 6,000 PSI Hose (PTF6)
** Only with ETFE or Nylon Hose (PTFT/PTFN)

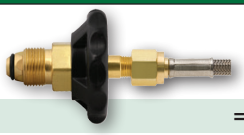
Male CGA



CGA 296	=	296
CGA 500	=	500
CGA 510	=	510
CGA 580	=	580**

**** For Helium Use, ETFE or Nylon hose is recommended (PTFT/PTFN)**

Handtight

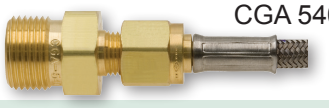


CGA 296	=	296H
CGA 500	=	500H
CGA 510	=	510H
CGA 580	=	580H**
CGA 590	=	590H

*** Only with 6,000 PSI (PTF6)**
**** For Helium Use, ETFE or Nylon hose is recommended (PTFT/PTFN)**

Male CGA Valve Outlets

CGA 540



CGA 300	=	300M
CGA 320	=	320M
CGA 326	=	326M
CGA 346	=	346M
CGA 347	=	347M*
CGA 350	=	350M**
CGA 540	=	540M
CGA 555	=	555M
CGA 577	=	577M*
CGA 701	=	701M*

* Only on 6,000 PSI Hose (PTF6)
** Only with ETFE or Nylon Hose (PTFT/PTFN)

Female CGA Valve Outlets

CGA 580

CGA 500	=	500F
CGA 510	=	510F
CGA 580	=	580F**
CGA 590	=	590F
CGA 680	=	680F*

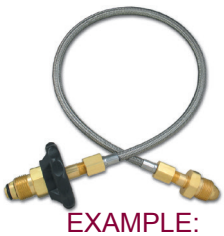
* Only on 6,000 PSI Hose (PTF6)
** For Helium Use, ETFE or Nylon hose is recommended (PTFT/PTFN)

All Handtight Nuts are plastic handles with brass insert. All brass Handtight Nuts available on special request.

pigtail ordering matrix

1. Pick Your Hose Type

PTF,	PTFT,	PTFN,	PTF6,	PTF36
PTFE,	ETFE,	SYNTHETIC TUBE	6000 PSI,	POST SINTERED 3600 PTFE DOUBLE BRAID



EXAMPLE:
PTF-580H-580-36

EXAMPLE:
PTFT-34I-34I-36

EXAMPLE:
PTFN-N341-N341-24

EXAMPLE:
PTF6-680-64ISS-36

EXAMPLE:
PTF36-34I-34I-24

2. Guard Option

G = Armor Guard
SG=Spring Guard

PTFSG

EXAMPLE:
PTFSG-G341-G341-24

PTFG

Armor guard minimum length 24”

EXAMPLE:
PTFG-G341-G341-24

3. CGA or NPT Thread at Inlet

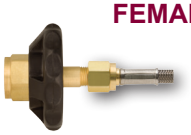
END CONNECTION STATED AS THE CGA OF THE GAS YOU WISH TO USE IN THE HOSE OR THE TYPE OF TANK

Brass 1/4 Male NPT	**34E**
Stainless Steel 1/4 Male NPT	**34ESS**
Brass 1/4 Female NPT	**34I**
Stainless Steel 1/4 Female NPT	**34ISS**
Brass 3/8 Female NPT	**36I**
Brass 1/2 Female NPT	**38I**
Brass 1/4 Female NPT, 3600 psi	**44I**

FEMALE CGA

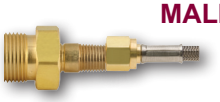
280
300
320
326
330
346
347
350**
410
415
520
540
555
577*
660
701*

FEMALE CGA HT



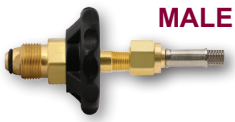
300H
320H
326H
346H
347H*
350H**
520H
540H
555H

MALE CGA



296
500
510
580**
590
680*

MALE CGA HT



296H
500H
510H
580H**
590H

* Only on 6,000 PSI Hose (PTF6)
** Only with ETFE or Nylon Hose (PTFT/PTFN) CGA

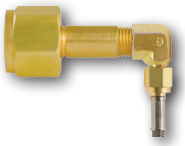
4. Options for either end

ADDITIONAL OPTIONS OR ENHANCEMENTS SUCH AS CHECK VALVES, VALVES, ELBOWS, SWIVEL, BRASS WRENCH, HEAT SINK

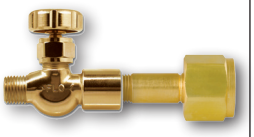
CV

RCV

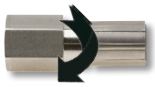
L



V



SW



PW

FA

(Acetylene only, 500 PSI)

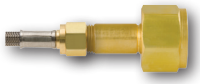
HS

5. CGA or NPT thread at outlet

END CONNECTION STATED AS THE CGA OF THE GAS YOU WISH TO USE IN THE HOSE OR THE TYPE OF TANK

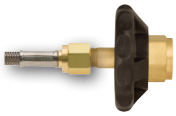
Brass 1/4 Male NPT	**34E**
Stainless Steel 1/4 Male NPTE	**34ESS**
Brass 1/4 Female NPT	**34I**
Stainless Steel 1/4 Female NPT	**34ISS**
Brass 3/8 Female NPT	**36I**
Brass 1/2 Female NPT	**38I**
Brass 1/4 Female NPT, 3600 psi	**44I**

FEMALE CGA



280
00
320
326
330
346
347
350**
410
415
520
540
555
577*
660
701*

FEMALE CGA HT

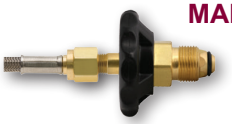


300H
320H
326H
346H
347H*
350H**
520H
540H
555H

MALE CGA

296
500
510
580**
590
680*

MALE CGA HT



296H
500H
510H
580H**
590H

6. Length of hose (in inches)

STANDARD LENGTHS SHOWN
CUSTOM LENGTHS AVAILABLE TOO

Max - 48 ft (576”)
Min - 6 in

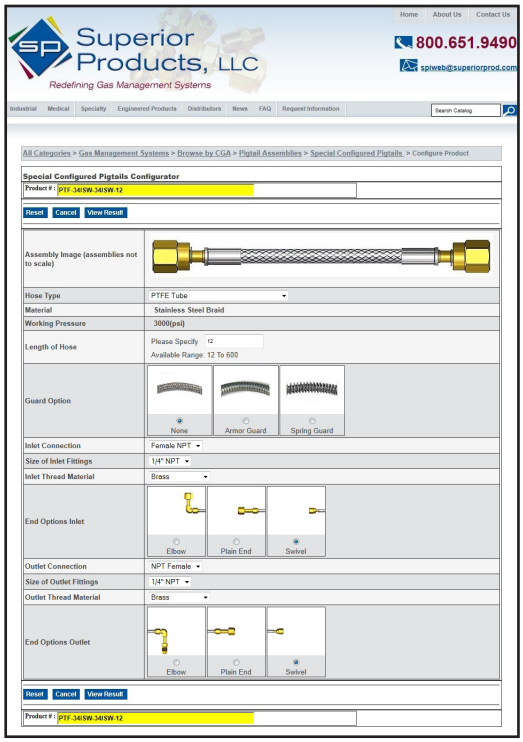
Not cleaned for oxygen service past 20 ft.

Superior Product’s Online Pigtail Configurator

One more way to order your custom pigtails from www.superiorprod.com

Configure your custom pigtails by selecting:

- -Hose type
- -Hose length
- -Inlet connection
- -Inlet fittings
- -Inlet thread material
- -End options inlet
- -Outlet connection
- -Size of outlet fittings
- -Outlet thread material
- -End options outlet



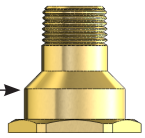
ZERO CLEARANCE FITTINGS

1,000 PSI

- Zero clearance for easy removal of piped components
- All thread sizes can be mixed and matched.
- Largest possible through holes for maximum flow

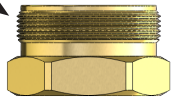
Flange Part No.	Thread
FL-ZC-04	1/4"-18NPT-M
FL-ZC-06	3/8"-18NPT-M
FL-ZC-08	1/2"-14NPT-M
FL-ZC-12	3/4"-14NPT-M

Nut Part No.	
N-ZC-001	Nut for all zero clearance sets



O-Ring Part No.	*Boss includes O-Ring
OR-024B7	O-ring for all zero clearance sets

Boss Part No.	Thread
N-ZC-04A	1/4"-18NPT-F
N-ZC-06A	3/8"-18NPT-F
N-ZC-08A	1/2"-14NPT-F
N-ZC-12A	3/4"-14NPT-F



DRY TYPE FLASH BACK ARRESTORS GMA-FK series

Superior's flash arrestor kit provides flash back, reverse flow and pressure relief protection in one compact device. This unit is included with a Superior Products acetylene manifold for more than 2 cylinders. It is also available as an option for use with hydrogen or propane manifolds.

- No water or fluid to check or replenish
- Approved safety device under ANSI Z49
- Help meet OSHA & NFPA safety standards
- Built in relief valve meets NFPA 51 requirements

Part No.	Type	Capacity	Inlet/Outlet	Relief Valve
GMA-FKA	Acetylene	300	1/2" NPT	15 PSIG
GMA-FKP-40	Propane	300	1/2" NPT	40 PSIG
GMA-FKP-60	Propane	300	1/2" NPT	60 PSIG
GMA-FKH	Hydrogen	300	1/2" NPT	40 PSIG

FUEL GAS SEMI-AUTOMATIC CHANGEOVER

GMA-SA High Pressure Series

Designed to regulate flow from high-pressure cylinders (up to 3,000 PSI), the GMA-SA series or GMA-SAHP series provides an uninterrrupted gas supply when changing from the "In Use" side to the "Reserve" side, Line delivery pressure remains constant to the pipeline during the changeover cycle. The SA series is perfect for fuel gas as it comes with a NEMA 4 explosion proof cabinet. The SA series is easy to operate. All that is required after cylinder change out is to move the lever to selected primary gas supply bank for the manifold. The SA series is a mechanical pressure differential system that does not require power to operate. Visual and audible alarms are available if power at the site is available.

How to Order

Control Type + Gas/CGA Service + Total # of Cylinders

Ex. GMA-SA or SAHP-580-4

Semi-Automatic changeover, inert service, 4 tanks

PRO-MIX GAS MIXERS

GMA-MX series — Proportional Gas Mixer

Superior Product's PMX mixers are suited for all applications where precise gas mixtures are required. These non-adjustable, high mix accuracy (+/- 2% full scale of cylinder pressure) offer a price advantage over less accurate adjustable models. The MX2000 series requires **NO SURGE TANK** to maintain mixture accuracy. The panel is a small wall mounted unit that is easy to install and requires no electricity, on-going maintenance or adjustment.

Features
- Tamper proof
- Highly accurate
- Low start up cost
- Compact
- No surge tank required (MX2000)

Mixer Specifications	GMA-MX series
Inlet pressure range	110-150 PSIG
Outlet pressure	0-100 PSIG adjustable
Flow rate	300 SCFH or 900 SCFH
Mixture accuracy	± 2% (3 to 900 SCFH)
Inlet filters	50 Micron
Dimensions	8"W x 10"H x 4.5"D
Weight	8 lbs.

Mixers available for the following **Gases**:

Argon	580A
Nitrogen	580N
Helium	580H
CO_2	320
Oxygen	540
Hydrogen	350

How to Order

Gas Mixer Assembly	-	CGA - % - CGA - %
GMA-MX	-	**XXX - % - XXX - %**
GMA-MX900	-	**XXX - % - XXX - %**
GMA-MX2000	-	**XXX - % - XXX - %**

Example: GMA-MX2000-580A-75-320-25 Mixer for Argon-75% & CO2-25%

* Higher flow rates available upon request
increase in 300 SCFH increments up to 2000 SCFH
* Three gas mixers available upon request

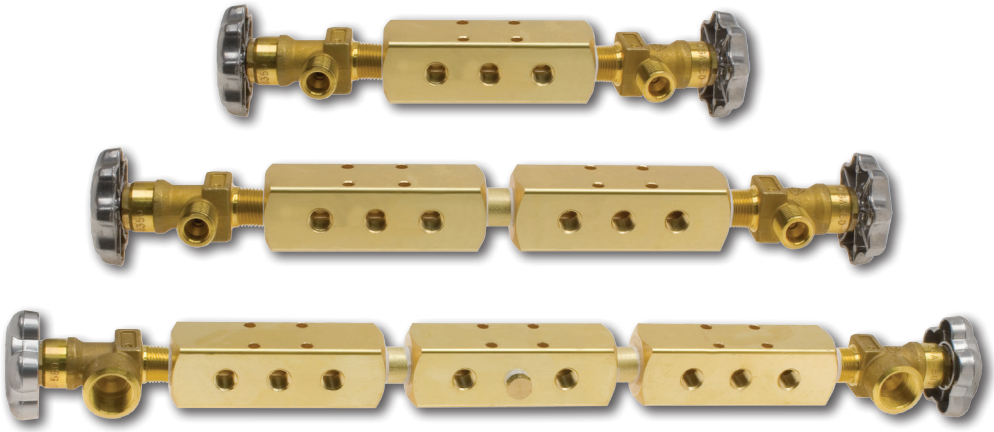
GMA-MX2000 series — Proportional Gas Mixer /High Capacity

Features
- Tamper proof
- Highly accurate
- Low start up cost
- Compact
- No surge tank required

Mixer Specifications	GMA-MX series
Inlet pressure range	120 PSIG
Outlet pressure	0-100 PSIG adjustable
Flow rate	2000 SCFH
Mixture accuracy	± 2% (2 to 2000 SCFH)
Inlet filters	50 Micron
Dimensions	20"W x 22"H x 6"D
Inlet & Outlet fittings	1/4" NPFT

SCMB Series

Superior's SCMB series is the ideal, low cost replacement header to fit most commercially available cylinder cradles. The body is machined from 1 1/2" yellow brass bar stock. Includes proper CGA valves or RPV valves* and 24" flexible, stainless steel pigtails PTFE lined for standard gas service or ETFE lined for high purity and lighter than air gases (hydrogen and helium) or 3,600 PSI Post Sintered PTFE. Also available with armor guarded flex pigtails for heavy duty service. The modular design and removable flexible pigtails allow for quick, easy repairs.



Available to order	
6 pack, stainless steel PTFE lined pigtails	**GMA-SCMB-XXX-06**
6 pack, stainless steel ETFE lined pigtails	**GMA-SCMB-XXXTZ-06**
6 pack, single loop copper pigtails	**GMA-SCMB-XXX-06-RGD**
6 pack, stainless steel 3,600 PSIG PTFE Lined Pigtail	**GMA-SCMB-XXX-36-06**
12 pack, stainless steel PTFE lined pigtails	**GMA-SCMB-XXX-12**
12 pack, stainless steel ETFE lined pigtails	**GMA-SCMB-XXXTZ-12**
12 pack, single loop copper pigtails	**GMA-SCMB-XXX-12-RGD**
12 pack, stainless steel 3,600 PSIG PTFE Lined Pigtail	**GMA-SCMB-XXX-36-12**
16 pack, stainless steel PTFE lined pigtails	**GMA-SCMB-XXX-16**
16 pack, stainless steel ETFE lined pigtails	**GMA-SCMB-XXXTZ-16**
16 pack, single loop copper pigtails	**GMA-SCMB-XXX-16-RGD**
16 pack, stainless steel 3,600 PSIG PTFE Lined Pigtail	**GMA-SCMB-XXX-36-16**

* For **ArmorGuard** Option add "**AG**" to part number
Example: GMA-SCMB-XXXAG-06-PTFE
GMA-SCMB-XXXTZAG-06-ETFE
GMA-SCMB-XXX36AG-06-PTFE 3,600 PSI

* For **Residual Pressure Valve** add "**RPV**" to part number
Example: GMA-SCMB-XXXRPV-06
Please Note 3,600 PSIG PTFE is Post Sintered

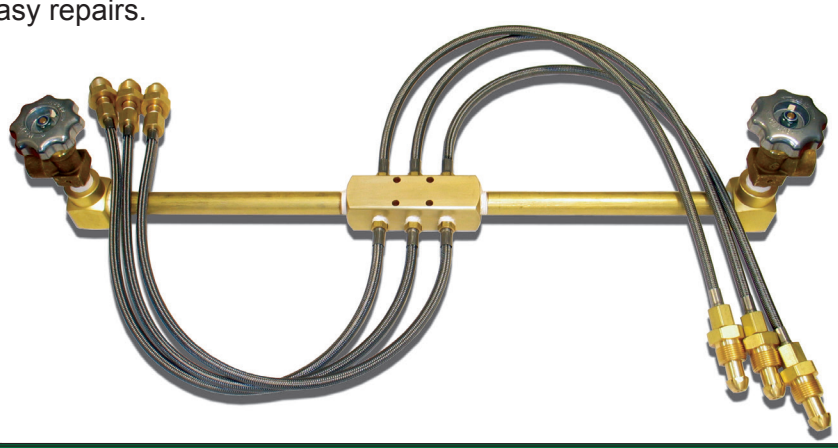
- Other CGA's available upon request
- Optional Tee with gauge available between valve and block

Available for the following gases, replace **XXX** in part number with **CGA#**

Carbon Dioxide	**CGA 320**
Nitrous Oxide	**CGA 326**
Air	**CGA 346**
Hydrogen	**CGA 350**
Propane/Acetylene	**CGA 510**
Oxygen	**CGA 540**
Inert Gases	**CGA 580**

CPR Series

Superior's CPR series is a cradle pack replacement header to fit most common size cylinder cradles. The body is machined from 1 1/2" yellow brass bar stock. Includes proper CGA valves or RPV valves, 24" flexible, stainless steel pigtails PTFE lined for standard gas service, ETFE lined for high purity and lighter than air gases (hydrogen and helium) or 3,600 PSIG Post Sintered PTFE. Also available with armor guarded flexible pigtails for heavy duty service. The modular design and removable flexible pigtails allow for quick, easy repairs.



Available to order	
6 pack, stainless steel PTFE lined pigtails	**GMA-CPR-XXX-06**
6 pack, stainless steel ETFE lined pigtails	**GMA-CPR-XXXTZ-06**
6 pack, stainless steel 3,600 PSIG PTFE lined pigtails	**GMA-CPR-XXX-36-06**
6 pack, single loop copper pigtails	**GMA-CPR-XXX-06-RGD**
12 pack, stainless steel PTFE lined pigtails	**GMA-CPR-XXX-12**
12 pack, stainless steel ETFE lined pigtails	**GMA-CPR-XXXTZ-12**
12 pack, stainless steel 3,600 PSIG PTFE lined pigtails	**GMA-CPR-XXX-36-12**
12 pack, single loop copper pigtails	**GMA-CPR-XXX-12-RGD**
16 pack, stainless steel PTFE lined pigtails	**GMA-CPR-XXX-16**
16 pack, stainless steel ETFE lined pigtails	**GMA-CPR-XXXTZ-16**
16 pack, stainless steel 3,600 PSIG PTFE lined pigtails	**GMA-CPR-XXX-36-16**
16 pack, single loop copper pigtails	**GMA-CPR-XXX-16-RGD**

* For **ArmorGuard** Option add "**AG**" to part number
Example: GMA-CPR-XXXAG-06-PTFE
GMA-CPR-XXXTZAG-06-ETFE
GMA-CPR-XXX36AG-06-PTFE 3,600 PSI

* For **Residual Pressure Valve** add "**RPV**" to part number
Example: GMA-CPR-XXXRPV-06

*Please Note 3,600 PSIG PTFE is Post Sintered

• Other CGA's available upon request

Available for the following gases, replace **XXX** in part number with **CGA**

Carbon Dioxide	**CGA 320**
Nitrous Oxide	**CGA 326**
Air	**CGA 346**
Hydrogen	**CGA 350**
Propane/Acetylene	**CGA 510**
Oxygen	**CGA 540**
Inert Gases	**CGA 580**

MODULAR NON-BRAZED SIMPLEX HEADERS
FOR INDUSTRIAL, SPECIALTY GAS & HOSPITAL MANIFOLD SYSTEMS

Modular simplex manifold headers are a single unit design manufactured from free cutting brass bar stock. This design eliminates all brazed joints. Each unit is tested to full operating pressure and cleaned for oxygen service per CGA-G4.1. Manifold headers can be shipped complete with master valve, individual check valve inlets, flexible stainless steel or rigid copper pigtails, mounting hardware, and CGA inlet connections. Systems available include simplex, MHV series with flexible stainless pigtails, CMHV with rigid copper pigtails, MHE and CMHE series header extensions. Headers are ordered in 2 or 3 cylinder configurations to arrive at the desired number of cylinders. Custom configurations are also available for U-shaped and L-shaped to meet your space requirements.

Configuration: Systems are available in three different basic configurations, for 2 or 3 cylinder sections. Five inch center to center spacing is standard. To order 90 degree elbow sections separately, specify GMF-3710. See page 70.

HOW TO ORDER

1 Start with Blank Header

- Machine, not brazed, joints
- 5 inches between ports, even when expanded

1 - 11 1/2 NPS Thread for expansion

GMA2
(2 port)

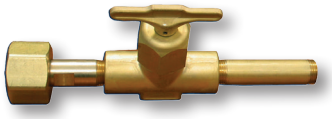
GMA4
(4 port - Crossover)

GMA3
(3 port)

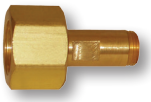
GMA6
(6 port - Crossover, Inlets on opposite sides)

2 Choose Outlet

MHV = Modular Header Valve



MHE = Modular Header Extension



3 Choose Gas

Male Inlets

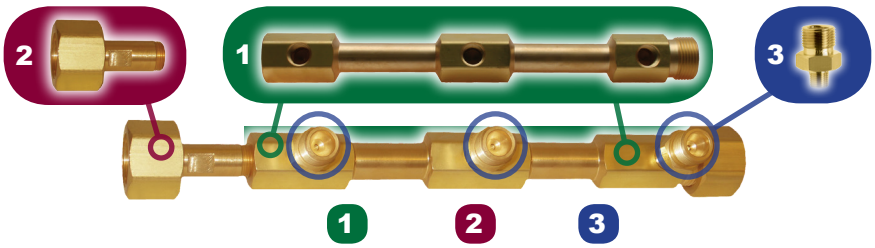
CGA 300 - Ethyl Chlorides (formerly **Acetylene**)
CGA 320 - Carbon Dioxide
CGA 326 - Nitrous Oxide
CGA 346 - Air
CGA 350 - Hydrogen
CGA 540 - Oxygen
CGA 555 - Propane
CGA 577 - Oxygen

Female Inlets

CGA 500 - Medical Mixtures
CGA 510 - Acetylene
CGA 580 - Inert Gases
CGA 590 - Sulfur HexaFlouride (formerly **Industrial Air**)

*** Pigtails sold separately**
For check valve inlets add "CV" after CGA number

CONFIGURED MANIFOLD EXAMPLE



GMA3 - MHE - 540CV
3 Cylinder CGA 540 Header Extension with check valve inlets

GAS MANIFOLD ASSEMBLIES

ORDERING INFORMATION:

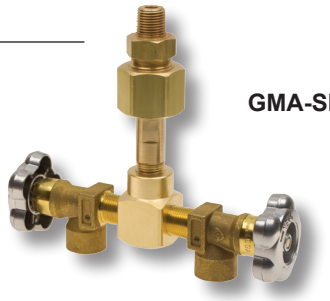
Each manifold part number consists of four sections. The first section denotes a Gas Manifold Assembly (GMA). The second section denotes the type of manifold and its configuration (only for duplex manifolds) otherwise do not use configuration number. The third section denotes the CGA number or type of gas, and the last section denotes the number of inlets or cylinders. The example below is for a twelve cylinder Oxygen duplex manifold in a standard configuration with outlet adaptor with check valves instead of header valves.

GMA	-	DM	-	540CV	-	12
Gas Manifold Assembly		Type of Manifold & Configuration		CGA Number		Number of Cylinder Inlets

Type of Manifold	Type of Configuration	Type of Gases	
SD-Simple Duplex(Manual)	Standard Configuration	300-Commercial Acetylene	510-Acetylene & Propane
SM-Simplex(Manual)	2-Crossover Configuration	320-Carbon Dioxide	540-Oxygen
DM-Duplex(Manual)	3-"L" Shaped Configuration	326-Nitrous Oxide	580-Nitrogen, Helium & Argon
HEL-Header Extension, left side	4-"U" Shaped Configuration	346-Air	590-Industrial Air
HER-Header Extension, right side	5-Staggered Configuration	350-Hydrogen	

SIMPLE DUPLEX MANIFOLDS

The simple duplex manifold is an economical system with a two cylinder capacity, one per side. The unit is furnished with two header valves and two pigtails with check valves, 1/2" NPT tee, a union and a mounting bracket. Manifolds for Acetylene gas will include pigtails with dry type flashback arrestors.

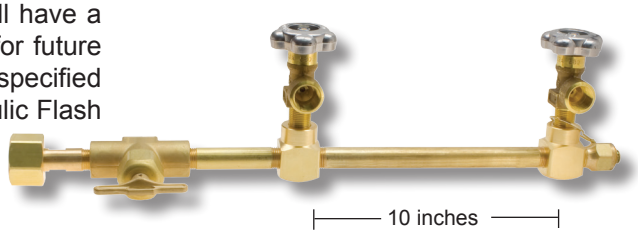


GMA-SD-320-02

SIMPLEX MANIFOLDS WITH MANUAL CONTROLS

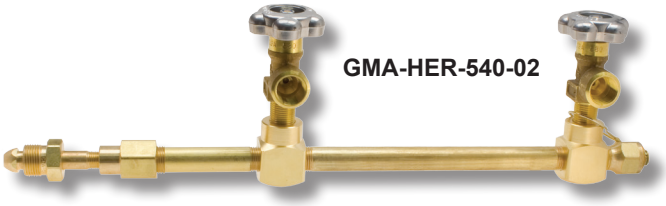
The simplex manifold has a master shut off valve with a single row of cylinder modules. Each module consists of 1/2" piping, 1/2" tees, header valves and pigtails with check valves or outlet adaptors with check valve and regular pigtails, a union, a CGA end plug and mounting brackets. The last module will have a plug and chain connected to an adaptor that allows for future expansion. Proper CGA fittings will be furnished for the specified gas. Manifolds for Acetylene gas will include a Hydraulic Flash Arrestor and pigtails with dry type arrestors.

GMA-SM-346-02



MANIFOLD HEADER EXTENSION ASSEMBLIES

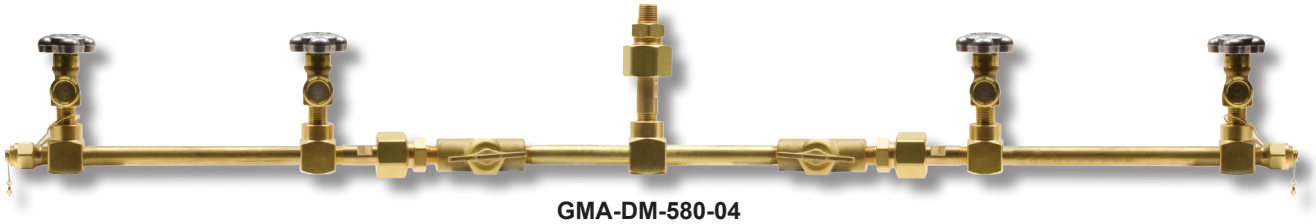
Header extensions are shipped ready for addition to existing manifolds. Unit includes CGA inlet, CGA end plug, 1/2" piping, 1/2" tees, header valves and pigtails with check valves or outlet adaptors with check valves and flexible pigtails and a mounting bracket. The last module will have a plug and chain connected to an adaptor that allows for future expansion. Specify right side extension (HER) or left side extension (HEL).



GMA-HER-540-02

DUPLEX MANIFOLDS WITH MANUAL CONTROLS

The duplex manifold has two master shut off valves allowing replacement of the exhausted bank of cylinders while the full bank of cylinders is in operation. The center section accommodates a single regulator. The manifold is shipped with 1/2" piping, 1/2" tees, header valves and pigtails with check valves or adaptor outlets with check valve and regular pigtails, a union, a CGA end plug and mounting brackets are included with each module. Modules are furnished with a plug and chain on the last module that allows for future expansion. Proper CGA fittings will be furnished for specified gas. Manifolds for Acetylene gas will include a Hydraulic Flash Arrestor and pigtails with dry type arrestors.



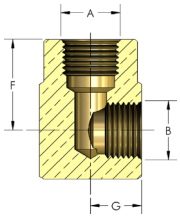
GMA-DM-580-04

BRASS MANIFOLD PIPE AND PIPE FITTINGS

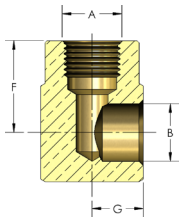
Fittings Are Machined From CDA-360 Brass, Stress Relieved and Cleaned For Oxygen Service

PIPE ELBOWS

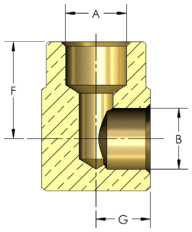
3,000 PSI



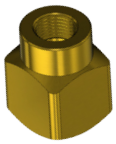
GMF-3011



GMF-3012

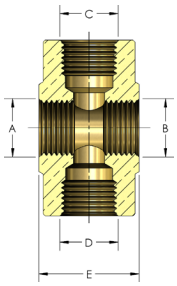


GMF-3013

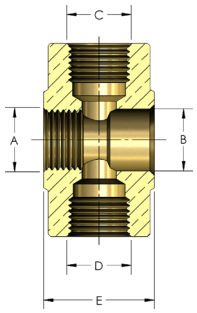


PIPE CROSSES

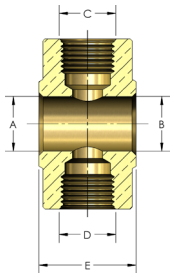
3,000 PSI



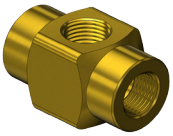
GMF-3041



GMF-3042



GMF-3043

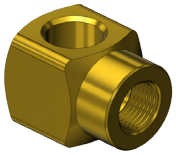


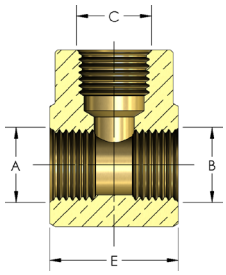
Part No.	Ref. A	Ref. B	Ref. F	Ref.G
GMF-3011	1/2"-14 NPT	1/2"-14 NPT	1-5/16"	3/4"
GMF-3012	1/2"-14 NPT	.843"-.847"	1-5/16"	3/4"
GMF-3013	.843"-.847"	.843"-.847"	1-5/16"	3/4"

Part No.	Ref. A	Ref. B	Ref.C & D	Ref.E
GMF-3041	1/2"-14 NPT	1/2"-14 NPT	1/2"-14 NPT	1-1/2"
GMF-3042	.843"-.847"	1/2"-14 NPT	1/2"-14 NPT	1-1/2"
GMF-3043	.843"-.847"	Slip Thru	1/2"-14 NPT	1-1/2"

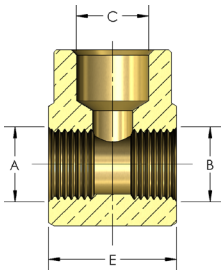
PIPE TEES

3,000 PSI

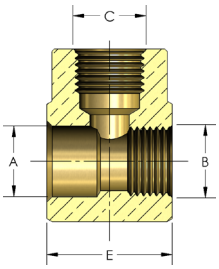




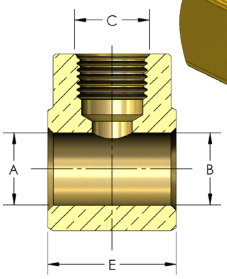
GMF-3021



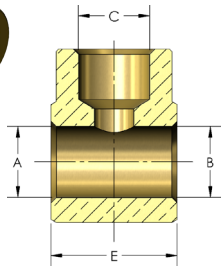
GMF-3022



GMF-3023



GMF-3033



GMF-3034

Part No.	Ref. A	Ref. B	Ref. C	Ref.E
GMF-3021	1/2"-14 NPT	1/2"-14 NPT	1/2"-14 NPT	1-1/2"
GMF-3022	1/2"-14 NPT	1/2"-14 NPT	.843"-.847"	1-1/2"
GMF-3023	.843"-.847"	1/2"-14 NPT	1/2"-14 NPT	1-1/2"

Part No.	Ref. A	Ref. B	Ref. C	Ref. E
GMF-3033	.843"-.847"	Slip Thru	1/2"-14 NPT	1-1/2"
GMF-3034	.843"-.847"	Slip Thru	.843"-.847"	1-1/2"

3,000 PSI

PIPE NIPPLES, THREADED ENDS

-Cleaned For Oxygen Service
-Suitable For Acetylene
-Machined From CDA 360 Brass

GMF-3214

Part No.	Thread Size	Length
GMF-3211	1/2"-14 NPT	1-1/2"
GMF-3212	1/2"-14 NPT	2"
GMF-3213	1/2"-14 NPT	4"
GMF-3214	1/2"-14 NPT	6"
GMF-3215	1/2"-14 NPT	9-3/4"
GMF-3216	1/2"-14 NPT	12-3/4"

PIPE LENGTHS, PLAIN ENDS

-Cleaned For Oxygen Service
-Suitable For Acetylene
-Made From CDA 360 Brass
-Special Lengths Available Upon Request

GMF-3224

Part No.	Pipe Size	Length
GMF-3222	1/2" Nom.	2"
GMF-3223	1/2" Nom.	4"
GMF-3224	1/2" Nom.	6"
GMF-3225	1/2" Nom.	9-3/4"
GMF-3226	1/2" Nom.	12-3/4"

UNION 90º

GMF-3710

Wall Bracket

GMF-3611

image not to scale

UNION PLUG

Part No.	Thread
GMA-RH-PLUG	1"-11-1/2 NPS RH-INT.
GMA-LH-PLUG	1"-11-1/2 NPS LH-INT.

PIPE LENGTHS, PLAIN ENDS

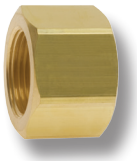
-***NOT CLEANED*** For Oxygen Service
-Suitable For Acetylene
-Made From CDA 360 Brass

Part No.	Pipe Size	Length
GMF-3236	1/2" Nom.	6 FT.
GMF-3237	1/2" Nom.	12 FT.
GMF-6236	3/4" Nom.	6 FT.
GMF-6237	3/4" Nom.	12 FT.

NOTE: GMF-3237 and GMF-6237 must ship via common carrier

UNION NUTS

Part No.	Thread
GMF-3311	1"-11-1/2 NPS RH-INT.
GMF-3312	1"-11-1/2 NPS LH-INT.

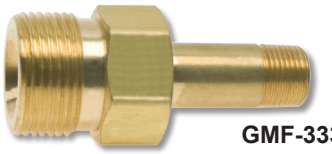


GMF-3311

UNION NIPPLES

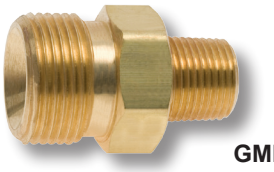
GMF-3326

Part No.	Thread	Length
GMF-3321	3/8"-18 NPT	2.40"
GMF-3326	1/2"-14 NPT	2.94"



GMF-3333

UNION BUSHINGS



GMF-3332

UNION BUSHINGS WITH FILTER 3,000 PSI

Part No.	Thread	Pipe Thread	Length
GMF-3333	1"-11-1/2 NPS RH	3/8"-18 NPT	3.125"
GMF-3334	1"-11-1/2 NPS RH	1/2"-14 NPT	2.187"
GMF-3337	1"-11-1/2 NPS LH	3/8"-18 NPT	3.125"
GMF-3338	1"-11-1/2 NPS LH	1/2"-14 NPT	2.187"

GMF-3341	Replacement Filter
GMF-3342	Replacement Snap-Ring

UNION BUSHINGS WITHOUT FILTER 3,000 PSI

Part No.	Thread	Pipe Thread	Length
GMF-3331	1"-11-1/2 NPS RH	3/8"-18 NPT	3.125"
GMF-3332	1"-11-1/2 NPS RH	1/2"-14 NPT	2.187"
GMF-3335	1"-11-1/2 NPS LH	3/8"-18 NPT	3.125"
GMF-3336	1"-11-1/2 NPS LH	1/2"-14 NPT	2.187"

LINE STATION DROPS, LINE STATION VALVES & BALL VALVES

LINE STATION DROPS & LINE STATION VALVES

200 PSI

Part No.	Gas Service	No. Of Outlets	Outlet Size
GMA-SSD-022V-01	Oxygen	Single	9/16"-18 RH "B" size valve
GMA-SSD-022V-02	Oxygen	Double	9/16"-18 RH "B" size valve
GMA-SSD-023V-01	Fuel Gas	Single	9/16"-18 LH "B" size valve
GMA-SSD-023V-02	Fuel Gas	Double	9/16"-18 LH "B" size valve
GMA-SSD-024V-01	Oxygen	Single	7/8"-14 RH "C" size valve
GMA-SSD-024V-02	Oxygen	Double	7/8"-14 RH "C" size valve
GMA-SSD-025V-01	Fuel Gas	Single	7/8"-14 LH "C" size valve
GMA-SSD-025V-02	Fuel Gas	Double	7/8"-14 LH "C" size valve

GMV-1024

Part No.	Operating Pressure	CGA Outlet	Valve Inlet
GMV-1024	200 psi	CGA-024	1/2"-14 NGT
GMV-1025	200 psi	CGA-025	1/2"-14 NGT

GMV-1025

Inlet & Outlet size		Part No.
1/4" female NPT	**BALL VALVES**	**GMV-334**
1/2" female NPT		**GMV-338**
3/4" female NPT		**GMV-3312**

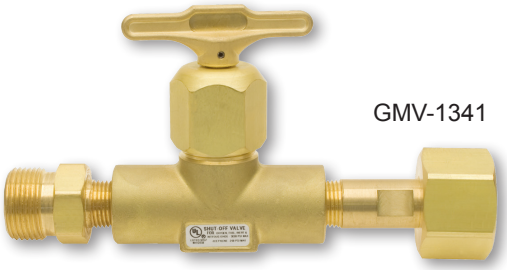
Brass body, hot forged brass ball valve, 600 psi rated
Safe for use with acetylene

MASTER SHUT-OFF VALVES

3,000 PSI

-Forged Brass Body
-PTFE Packing
-Kel-F Seat

GMV-1001



GMV-1341

Part No.	Inlet	Outlet
GMV-1001	1/2"-14 NPT	1/2"-14 NPT
GMV-1341	1"-11-1/2 NPS RH-EXT	1"-11-1/2 NPS RH-INT.

GMV-1580

MANIFOLD VALVES

** = Residual Pressure Valve*

No Safety Relief Devices

GMV-1540

Part No.	Operating Pressure	CGA Outlet	Valve Inlet
GMV-1300	250 psi	CGA-300	1/2"-14 NGT
GMV-1320	3,000 psi	CGA-320	1/2"-14 NGT
GMV-1326	3,000 psi	CGA-326	1/2"-14 NGT
GMV-1346	3,000 psi	CGA-346	1/2"-14 NGT
GMV-1350	3,000 psi	CGA-350	1/2"-14 NGT
GMV-1510	250/500 psi	CGA-510	1/2"-14 NGT
GMV-1540	3,000 psi	CGA-540	1/2"-14 NGT
GMV-1580	3,000 psi	CGA-580	1/2"-14 NGT
GMV-1590	3,000 psi	CGA-590	1/2"-14 NGT
GMV-3346	3,000 psi	CGA-346	3/4"-14 NGT
GMV-3350	3,000 psi	CGA-350	3/4"-14 NGT
GMV-3540	3,000 psi	CGA-540	3/4"-14 NGT
GMV-3540RPV*	3,000 psi	CGA-540	3/4"-14 NGT
GMV-3580	3,000 psi	CGA-580	3/4"-14 NGT
GMV-3580RPV*	3,000 psi	CGA-580	3/4"-14 NGT
GMV-3660SS	3,000 psi	CGA-660	3/4"-14 NGT
GMV-3680	4,700 psi	CGA-680	3/4"-14 NGT
GMV-3702	6,400 psi	CGA-702	3/4"-14 NGT

* Residual Pressure Valve

SS = Stainless Steel

LIMITED WARRANTY

WARRANTY:
The manufacturer warrants the products sold hereunder to be free from defects in material and workmanship at the date of shipment. Please note the distinction between “defects” and “damage” as used in this warranty: defects are covered because we, the manufacturer, are responsible: however, we have no control over damage caused by such things as misuse or improper installation. Therefore, damage for any reason is not covered under this warranty.

WHAT THE MANUFACTURER WILL DO:
If you, the Buyer, meet the eligibility requirements and obligations listed below, then we shall, within thirty (30) days of receipt of a timely claim and the parts claimed to be defective, inspect the parts and repair or replace, at our option, any parts which we determine were defective at the time of shipment from us. However, if we determine that the parts were defective and also that circumstances are such as to prevent us from remedying the warranted defects by repair or replacement, then we may at our option, refund you the purchase price of the parts.

ELIGIBILITY REQUIREMENTS & OBLIGATIONS OF BUYER:
You are eligible to obtain service under this warranty if you are the original consumer purchaser, either from us directly or from a seller who stocks our product for resale. However, in order for you to obtain service under this warranty, you must do the following:
1. Send a claim in writing along with samples of the parts claimed to be defective to us freight prepaid.
2. Have your claim and sample parts delivered within ninety (90) days from the date of shipment of the parts from our factory. However, if you bought the parts for resale, or if you bought the parts from someone who bought them for resale, then you must deliver the claim and the parts to us within ninety (90) days from the date of re sale–except under no circumstances shall we honor any claim which fails to be delivered to us with the parts within one hundred and eighty (180) day from the date of shipment of the parts from our factory.

Your claim should be in typed or printed form and include the following information:
1. Your name and address; and
2. The name and address of the seller of the parts; and
3. The date of purchase of the parts; and
4. A short description of the alleged defect; and
5. Proof of the purchase of the parts, for example, a receipt or canceled check.

WHAT IS NOT COVERED UNDER THIS WARRANTY (LIMITATION OF LIABILITY):
As stated above, damage for any reason is not covered under this warranty. Furthermore NO OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF OUR PRODUCTS. However, some states do not allow limitations on how an implied warranty lasts, so this limitation may not apply to you. Also, since this is a limited warranty, WE SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY OTHER CHARGES, LABOR COSTS, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSSES OR DAMAGES OF ANY KIND OR DESCRIPTION WHATSOEVER ARISING OUT OF, OR IN ANYWAY RELATING TO, ANY BREACH OF THIS WARRANTY OR CLAIMED DEFECT IN, OR NON-PERFORMANCE OF, OUR PRODUCTS. However, some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you. This warranty also excludes commercial and other non-consumer purchasers other than the original consumer purchaser.

WE HAVE NO AGENTS:
We do not authorize any person to create for us any obligation of liability in connection with our products.

LEGAL RIGHTS:
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state (province to province in Canada).

Your claim, along with the sample part or parts, should be sent to:

Superior Products, LLC.
3786 Ridge Road
Cleveland, Ohio 44144-1175
ATTN: QCA DEPT.

Retail Price $8.00

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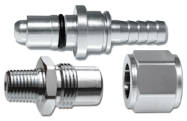
  - Gauges
  - Hoses
  - Hose Fittings and Accessories



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Catalog 18B - 10/01/2015