

INDUSTRIAL PRODUCTS



WESTERN
ENTERPRISES

GLOBAL GAS MANAGEMENT TECHNOLOGY

ENTERPRISES • INNOVATOR • MEDICA • WESTWINDS

Industrial Products Catalog

Innovative Solutions for Gas Management Systems



This catalog provides a comprehensive source of information on Western's line of products used in the control, transmission and storage of compressed gases for industrial and other related applications. Product descriptions include information on available gas services, sizes, operating pressures, applications and optional features, as appropriate. Additional information is available through Western's customer service department at 1-800-783-7890.

In conjunction with other applications, Western products can co-mingle with the requirements of various related agencies (as listed below).

Western manufactures products under the stringent controls to assure that safe products are delivered to the marketplace. Users of Western products must adhere to the instructions provided with certain products. For more information on the safe handling and proper installation of compressed gas equipment, contact the following agencies or Western's customer service department.

Compressed Gas Association 14501 George Carter Way, Suite 103 Chantilly, VA 20151 703-788-2700 www.cganet.com	Food & Drug Administration 5600 Fishers Lane Rockville, MD 20857 1-800-INFO-FDA www.fda.gov	National Fire Protection Association One Batterymarch Park Quincy, MA 02169 617-770-3000 www.nfpa.org	OSHA Occupational Safety & Health Administration 200 Constitutional Ave. NW Washington, DC 20210 www.osha.gov	Underwriter Laboratories Incorporated 333 Pflingsten Road Northbrook, IL 60062-2096 1-877-UL HELPS www.ul.com
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For more information on Western's other product portfolios, contact Customer Service at 1-800-783-7890.

- MEDICAL EQUIPMENT PORTFOLIO** Medical regulators, portable oxygen systems, medical flowmeters, oxygen Transfill systems, fittings and replacement parts.
- MANIFOLD AND SPECIALTY GAS PORTFOLIO** Gas manifold systems for industrial, medical and specialty gas applications, alarms, pressure regulators, station drops and replacement parts.
- INFLATION EQUIPMENT PORTFOLIO** High quality helium equipment including inflators, filling stations, cylinders, manifolds, accessories and replacement parts.

For 60 years, Western has been supplying innovative solutions in gas management systems to the industrial, medical and helium gas markets.

Disclaimer: This catalog is for informational purposes. Specific information regarding the use of these products is contained in the Operating Instructions provided with certain products. Western Enterprises is constantly improving our products, therefore we reserve the right to make changes in specifications without notice. All images contained in this catalog represent a version of the indicated products.

GENERAL INFORMATION/ORDERING INFORMATION1-3
TABLE OF CONTENTS 3-5
PRODUCT FITTINGS INFORMATION6-7

FITTINGS 8-57

A, B, C, & D Size Fittings 8-10	Regulator Inlet Nuts and Nipples26-32
Torch Tip Nuts & Hose Splicers11	Check Valves33-34
Chain & Plug Assemblies, Brass & Dust Caps12	Quick Connects Sets and Components35
Inert Arc Fittings for MIG/TIG Torches13-15	Flashback Arrestors36-37
"Y" Connections16	Hotspotter38
Valves16-17	Gauges39
Safety Relief Valves18	Manifold Accessories40-44
Hose Braces & Clamps19	Chain and Plug Assemblies, Cylinder45
Ferrule Crimping Tools19	Specifications for Pigtails/Special Order Pigtails46-47
Brass Hose Ferrules20	Rigid Pigtails48-49
Hose Repair Kits21	Flexible Pigtails50-51
Pipe Thread Fittings22-24	Cryogenic Hoses and SAE Flare Connections52
Regulator Inlet Filters and Rings for Nipples25	Cylinder Adaptors53-55

RETAIL DISPLAYS56-57

ORDERING INFORMATION

To place an order, please call your gas equipment wholesaler. For more information on specific products, contact Western Customer Service at 1-800-783-7890.

WARRANTY INFORMATION

Western warrants to the Purchaser that products delivered to the Purchaser will be free from manufactured defects in material and workmanship.

WESTERN ENTERPRISES

Catalog 18

A-SIZE FITTINGS

All Types8

ADAPTORS

Check Valve34
Cylinder, All Gases53-55
Hose, C-Size9
Inert Arc13-14
Manifold Tubing40
Pipe-away18

B-SIZE FITTINGS

All Types8

BRACES

Hose19

BUSHINGS

Hose A, B, C, & D-Size9
Inert Arc13
Pipe Thread23-24

C-SIZE FITTINGS

All Types8

CHECK VALVES

Cylinder Adaptor34
Flashback Arrestor37
Inline Adaptor34
Manifold Block44
Pigtail48-51
Torch, Regulator33

CLAMPS

Hose19

COUPLERS

Hose A, B, C, & D-Size9
Inert Arc14

CRYOGENIC SERVICE

Transfer Hose, Separator52

D-SIZE FITTINGS

All Types8

FERRULES

Hose, Brass20

FILTERS

Regulator Inlet Nipple25

FLARE FITTINGS

Nuts, Adaptors52

FLASHBACK ARRESTORS

All Types36-37

GAUGES

Cylinder Pressure39
Regulator39

HOTSPOTTER

Heavy Duty38
Standard Duty38

INERT ARC FITTINGS

All Types13-15

KITS

Ferrules21
Hose Repair21
Kit Case21

MANIFOLD FITTINGS

Block Assemblies44
Coupler Tees43
Elbows, Tees, Crosses40-41
Outlet Adaptors41-43

TABLE OF CONTENTS (Continued)

NIPPLES

Hand-Tight27-31
Hose A, B, C, & D-Size8
Inert Arc13-15
Pipe, Thread23-24
Regulator Inlet26-32
Retainer Ring25

NUTS

Hand-Tight27-32
Hose A, B, C, & D-Size8
Inert Arc13
Regulator Inlet26-32

PIGTAILS

All Types46-51
Special Order46-47

PIPE THREAD FITTINGS, BRASS

All Types22-24

PIPE, BRASS

Lengths, Nipples40

PLUGS & CAPS

Chain & Plug, B, C, & D-Size12
Chain & Plug, Cylinder45
Dust Caps12

QUICK-CONNECTS

Torch, Hose, Regulator35

RETAIL DISPLAYS

.....56-57

SPLICERS

All Types11

TEES, COUPLERS

All Types43-44

TOOLS

Ferrule Crimping19

TORCH TIP NUTS

Replacement Tip Nuts11

TUBING

Brass40

VALVES

Brass16-17
Cartridge17
Safety Relief18
"Y" Connection16

"Y" CONNECTIONS

All Types16

PRODUCT FITTINGS INFORMATION

GUIDE TO PRODUCT DESCRIPTIONS

Compressed Gas Association (CGA) numbers identify products intended for specific gas services. All Western fittings are manufactured to CGA standards.

In addition to CGA numbers, many popular fittings commonly are referred to as A-Size, B-Size, C-Size and D-Size. These letter identifications also are included in our product descriptions. CGA

limits pressure ratings on A, B, C and D sized fittings to 200 PSIG (1,378 kPa) maximum working pressure. Kilopascals (kPa) are the metric unit of measure similar to Pounds Per Square Inch Gauge (PSIG). BAR is the British unit of measure similar to PSIG.

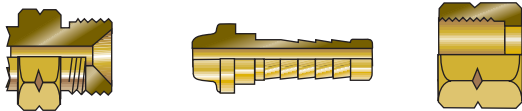
(See Conversion Chart Below)

A-B-C-D-SIZES FOR OXYGEN/FUEL GAS



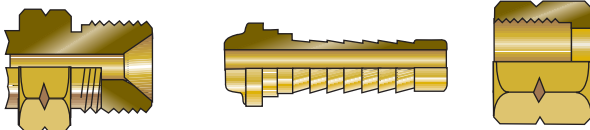
A-SIZE: 3/8"-24 UNF

RH Connection: CGA-020 For Oxygen
LH Connection: CGA-021 For Fuel Gases



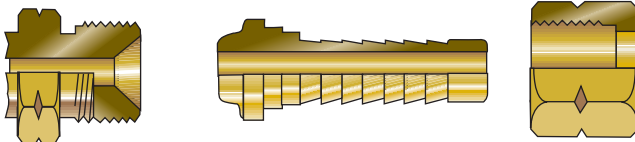
B-SIZE: 9/16"-18 UNF

RH Connection: CGA-022 For Oxygen
LH Connection: CGA-023 For Fuel Gases



C-SIZE: 7/8"-14 UNF

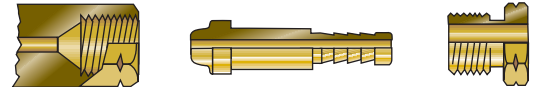
RH Connection: CGA-024 For Oxygen
LH Connection: CGA-025 For Fuel Gases



D-SIZE: 1-1/4"-12 UNF

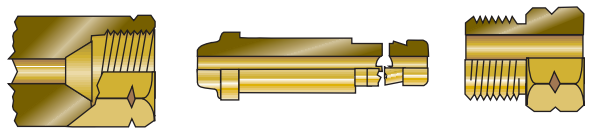
RH Connection: CGA-026 For Oxygen
LH Connection: CGA-027 For Fuel Gases

A-B-C-D-SIZES FOR GAS/WATER/AIR



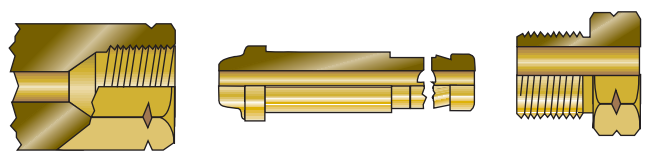
A-SIZE: 3/8"-24 UNF

RH Connection: CGA-030 For Inert Gases
LH Connection: CGA-031 For Water & Industrial Air



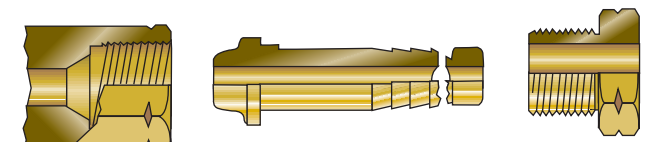
B-SIZE: 5/8"-18 UNF

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

METRIC CONVERSION – PSIG TO kPa 1 PSIG = 6.89 kPa OR 1 PSIG = 0.069 BAR

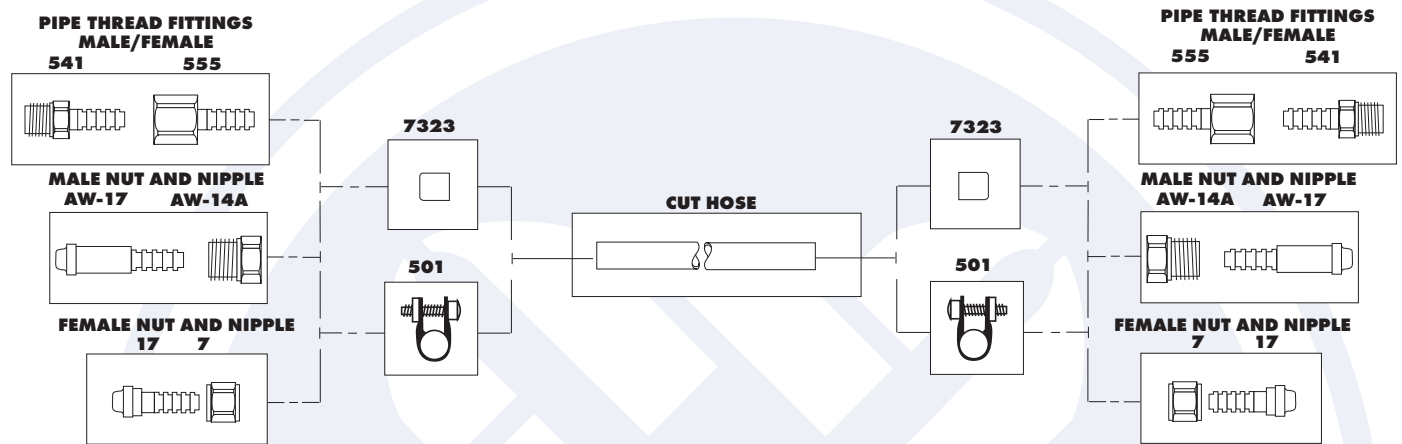
The following PSIG and kPa conversions are used throughout this catalog.
Kilopascals conversions are provided whenever possible.

200 PSIG	=1,378 kPa	or 13.8 BAR
400 PSIG	=2,756 kPa	or 27.6 BAR
500 PSIG	=3,445 kPa	or 34.5 BAR
3000 PSIG	=20,670 kPa	or 207 BAR
4000 PSIG	=27,560 kPa	or 276 BAR
5500 PSIG	=37,895 kPa	or 379 BAR
6000 PSIG	=41,340 kPa	or 414 BAR

FITTED HOSE ASSEMBLIES

Barbed hose fittings should be fabricated using clamps or crimped ferrules, (see drawing below). Western barbed hose fittings are rated to 200 PSIG maximum working pressure; however, this rating is applicable only to fitted hose assemblies

fabricated as described and shown in the drawing below. Hose repair kits include the tools needed to fabricate and assemble the fittings on the hose.



COMMON CONVERSIONS USED IN THE COMPRESSED GAS INDUSTRY

PRESSURE

$$\begin{aligned} \text{PSIG} &= 14.5 \times \text{BAR} \\ \text{Pa} &= 6,894.757 \times \text{PSIG} \\ \text{kPa} &= 6.894757 \times \text{PSIG} \\ \text{PSIG} &= \frac{\text{Pa}}{6894.757} \\ \text{PSIG} &= \frac{\text{kPa}}{6.894757} \end{aligned}$$

UNITS

PSIG: Pounds Per Square Inch Gauge
Pa: Pascal
kPa: 1000 Pascal
SCFH: Standard Cubic Feet per Hour
SCFM: Standard Cubic Feet per Minute
LPM: Liters per Minute

FLOW

$$\begin{aligned} \text{SCFH} &= 2.118 \times \text{LPM} \\ \text{SCFH} &= 60 \times \text{SCFM} \\ \text{LPM} &= \frac{\text{SCFH}}{2.118} \end{aligned}$$

**A, B, C, & D
SIZE FITTINGS**

PART NO.	DESCRIPTION	SIZE	SERVICE	MATERIAL
A-SIZE (3/8"-24 THREAD) * B-SIZE (9/16"-18 THREAD)				
9	Oxygen RH	A-Size	CGA-020	Brass
10	Acetylene/F.Gases LH	A-Size	CGA-021	Brass
7	Oxygen RH	B-Size	CGA-022	Brass
SS-7	Oxygen RH	B-Size	CGA-022	St. Steel
8	Acetylene/F.Gases LH	B-Size	CGA-023	Brass
C-SIZE (7/8"-14 THREAD) * D-SIZE (1 1/4"-12 THREAD)				
C-7	Oxygen RH	C-Size	CGA-024	Brass
C-8	Acetylene/F. Gases LH	C-Size	CGA-025	Brass
D-7	Oxygen RH	D-Size	CGA-026	Brass
D-8	Acetylene/F. Gases LH	D-Size	CGA-027	Brass

HOSE NUTS
Pressures to 200 PSIG (1400 kPa)



PART NO.	DESCRIPTION	SIZE	LENGTH	MATERIAL
A-SIZE (USE 9 or 10 NUT) * B-SIZE (USE 7 or 8 NUT)				
20	3/8" ID Hose	B-Size	1 15/32"	Brass
216	5/16" ID Hose	B-Size	1 15/32"	Brass
17-W*	1/4" ID Hose	B-Size	1 15/32"	Brass
SS-17	1/4" ID Hose	B-Size	1 15/32"	St. Steel
17	1/4" ID Hose	B-Size	1 15/32"	Brass
18	3/16" ID Hose	B-Size	1 15/32"	Brass
19	3/16" ID Hose	A-Size	1 1/4"	Brass
C-SIZE (Use C-7 or C-8 NUT) * D-SIZE (USE D-7 or D-8 NUT)				
D-18	3/4" ID Hose	D-Size	3 1/2"	Brass
D-17	1/2" ID Hose	D-Size	3 3/16"	Brass
C-17	1/2" ID Hose	C-Size	3 3/4"	Brass
C-18	1/2" ID Hose	C-Size	2 1/4"	Brass
C-20	3/8" ID Hose	C-Size	2"	Brass
C-19	1/4" ID Hose	C-Size	1 19/32"	Brass

BARBED HOSE NIPPLES
Pressures to 200 PSIG (1400 kPa)




*W = With O-Ring


PART NO.	DESCRIPTION	SIZE	LENGTH	MATERIAL
A-SIZE (USE 9 or 10 NUT) * B-SIZE (USE 7 or 8 NUT)				
23	1/8" NPT	B-Size	1 1/2"	Brass
13	3/16" ID Hose	A-Size	1 1/4"	Brass
12	3/16" ID Hose	B-Size	1 13/32"	Brass
11	1/4" ID Hose	B-Size	1 19/32"	Brass
516	5/16" ID Hose	B-Size	1 19/32"	Brass
138	3/8" ID Hose	B-Size	1 5/8"	Brass
C-SIZE (USE C-7 or C-8 NUT) * D-SIZE (USE D-7 or D-8 NUT)				
C-88	1/4" NPT	C-Size	2"	Brass
D-20	1/2" NPT	D-Size	2-1/2"	Brass

SPIRAL & NPT HOSE NIPPLES
Pressures to 200 PSIG (1400 kPa)



**A, B, C, & D
SIZE FITTINGS**

<p>REGULATOR OUTLET BUSHINGS (ADAPTORS) Pressures to 200 PSIG (1400 kPa)</p> 	PART NO.		DESCRIPTION	MATERIAL
	MALE NPT TO OXYGEN RH * MALE NPT TO ACET./F. GASES LH			
	132		1/8" NPT to A-Size RH	Brass
	133		1/8" NPT to A-Size LH	Brass
	134		1/4" NPT to A-Size RH	Brass
	135		1/4" NPT to A-Size LH	Brass
	136		1/8" NPT to B-Size RH	Brass
	137		1/8" NPT to B-Size LH	Brass
	32		1/4" NPT to B-Size RH	Brass
	SS-32		1/4" NPT to B-Size RH	St. Steel
	33		1/4" NPT to B-Size LH	Brass
	142		3/8" NPT to B-Size RH	Brass
	SS-142		3/8" NPT to B-Size RH	St. Steel
	143		3/8" NPT to B-Size LH	Brass
	144		1/2" NPT to B-Size RH	Brass
	145		1/2" NPT to B-Size LH	Brass
	C-34		1/4" NPT to C-Size RH	Brass
	C-35		1/4" NPT to C-Size LH	Brass
	C-40		3/8" NPT to C-Size RH	Brass
	C-41		3/8" NPT to C-Size LH	Brass
	C-32		1/2" NPT to C-Size RH	Brass
	C-33		1/2" NPT to C-Size LH	Brass
	D-34		1/2" NPT to D-Size RH	Brass
	D-35		1/2" NPT to D-Size LH	Brass
	D-32		3/4" NPT to D-Size RH	Brass
	D-33		3/4" NPT to D-Size LH	Brass

PART NO.	DESCRIPTION	SIZE	<p>HOSE COUPLERS, BRASS Pressures To 200 PSIG (1400 kPa)</p> 
A-SIZE: CGA-020 RH & CGA-021 LH * B-SIZE: CGA-022 RH & CGA-023 LH			
130	Oxygen RH, A-Size to A-Size	A-Size	
131	Acet/F. Gases LH, A-Size to A-Size	A-Size	
230	Oxygen RH, A-Size to B-Size	A-Size/B-Size	
231	Acet/F. Gases LH, A-Size to B-Size	A-Size/B-Size	
30	Oxygen RH, B-Size to B-Size	B-Size	
31	Acet/F. Gases LH, B-Size to B-Size	B-Size	
C-SIZE: CGA-024 RH & CGA-025 LH * D-SIZE: CGA-026 RH & CGA-027 LH			
C-30	Oxygen RH, C-Size to C-Size	C-Size	
C-31	Acetylene/F. Gases LH, C-Size to C-Size	C-Size	
D-30	Oxygen RH, D-Size to D-Size	D-Size	
D-31	Acetylene/F. Gases LH, D-Size to D-Size	D-Size	

**A, B, C, & D
SIZE FITTINGS**

PART NO.	DESCRIPTION	GAS	
107	90° Male B-Size to Female B-Size, RH	Oxygen	
108	90° Male B-Size to Female B-Size, LH	Acet/F. Gases	
127	45° 1/4" Male NPT to Male B-Size, RH	Oxygen	
128	45° 1/4" Male NPT to Male B-Size, LH	Acet/F. Gases	
253	90° 1/4" Male NPT to Male B-Size, RH	Oxygen	
254	90° 1/4" Male NPT to Male B-Size, LH	Acet/F. Gases	
PART NO.	DESCRIPTION	GAS	
123	1/4" Male NPT to Female Swivel B-Size, RH	Oxygen	
124	1/4" Male NPT to Female Swivel B-Size, LH	Acet/F. Gases	
125	1/4" Male NPT to Female Swivel A-Size, RH	Oxygen	
126	1/4" Male NPT to Female Swivel A-Size, LH	Acet/F. Gases	
153	Female Swivel B-Size to 1/4" Male NPT, RH	Oxygen	
154	Female Swivel B-Size to 1/4" Male NPT, LH	Acet/F. Gases	
234	1/4" Female NPT to Female Swivel B-Size, RH	Oxygen	
235	1/4" Female NPT to Female Swivel B-Size, LH	Acet/F. Gases	
244	1/4" Female NPT to Male B-Size, RH	Oxygen	
245	1/4" Female NPT to Male B-Size, LH	Acet/F. Gases	
PART NO.	DESCRIPTION	GAS	
103	Male A-Size to Female B-Size, RH	Oxygen	
104	Male A-Size to Female B-Size, LH	Acet/F. Gases	
105	Male B-Size to Female A-Size, RH	Oxygen	
106	Male B-Size to Female A-Size, LH	Acet/F. Gases	
PART NO.	DESCRIPTION	SIZE	GAS
14-0	Female Swivel to 1/4" ID Hose, RH	A-Size	Oxygen
14	Female Swivel to 1/4" ID Hose, LH	A-Size	Acet/F. Gases
24-0	Female Swivel to 1/4" ID Hose, RH	B-Size	Oxygen
24	Female Swivel to 1/4" ID Hose, LH	B-Size	Acet/F. Gases
PART NO.	DESCRIPTION	GAS	
544	Male 1/8" NPT to 3/16" ID Hose		
545	Male 1/8" NPT to 1/4" ID Hose		
548	Male 1/8" NPT to 1/8" ID Hose		
540	Male 1/4" NPT to 3/16" ID Hose		
541	Male 1/4" NPT to 1/4" ID Hose		
542	Male 1/4" NPT to 5/16" ID Hose		
543	Male 1/4" NPT to 3/8" ID Hose		
549	Male 1/4" NPT to 1/8" ID Hose		
539	Male 3/8" NPT to 3/8" ID Hose		
537	Male 3/8" NPT to 1/4" ID Hose		
C-42	Male 1/2" NPT to 1/2" ID Hose		
551	Female 1/8" NPT to 3/16" ID Hose		
552	Female 1/8" NPT to 1/4" ID Hose		
554	Female 1/4" NPT to 3/16" ID Hose		
555	Female 1/4" NPT to 1/4" ID Hose		
556	Female 1/4" NPT to 5/16" ID Hose		
557	Female 1/4" NPT to 3/8" ID Hose		
558	Female 3/8" NPT to 1/4" ID Hose		
PART NO.	DESCRIPTION	GAS	
40	Male B-Size, RH to 3/16" ID Hose Barbed	Oxygen	
40-B	Male B-Size, RH to 1/4" ID Hose Barbed	Oxygen	
41	Male B-Size, LH to 3/16" ID Hose Barbed	Acet/F. Gases	
41-B	Male B-Size, LH to 1/4" ID Hose Barbed	Acet/F. Gases	
43	Male B-Size, LH to 3/16" ID Hose Spiral	Acet/F. Gases	

HOSE ADAPTORS, BRASS
Pressures to 200 PSIG (1400 kPa)



253



123



105



24-0



541



40-B

**TORCH TIP NUTS
& HOSE SPLICERS**

HOSE SPLICERS, BRASS Pressures to 200 PSIG (1400 kPa)		PART NO.	DESCRIPTION	STYLE
		35	3/16" to 3/16" ID Hose	Spiral Hex
		34	1/4" to 1/4" ID Hose	Spiral Hex
		238	3/8" to 3/8" ID Hose	Spiral Hex
		38	3/16" to 3/16" ID Hose	Barb Hex
		39	3/16" to 1/4" ID Hose	Barb Hex
		37	1/4" to 1/4" ID Hose	Barb Hex
		139	5/16" to 5/16" ID Hose	Barb Hex
		149	3/8" to 3/8" ID Hose	Barb Hex
		C-38	1/2" to 1/2" ID Hose	Barb Hex
		D-38	3/4" to 3/4" ID Hose	Barb Hex
		45	3/16" to 3/16" ID Hose	Barb Round
		44	1/4" to 1/4" ID Hose	Barb Round
		46	5/16" to 5/16" ID Hose	Barb Round
		47	3/8" to 3/8" ID Hose	Barb Round
		48	1/2" to 1/2" ID Hose	Barb Round
		53	1/8" to 1/8" ID Hose	Barb No Stop
		55	3/16" to 3/16" ID Hose	Barb No Stop
		54	1/4" to 1/4" ID Hose	Barb No Stop
		56	5/16" to 5/16" ID Hose	Barb No Stop
		57	3/8" to 3/8" ID Hose	Barb No Stop
	C-37	1/2" to 1/2" ID Hose	Barb No Stop	

PART NO.	THREAD SIZE	MATERIAL	TORCH TIP NUT REPLACEMENTS TIP NUTS FOR CUTTING TORCHES & ATTACHMENTS
TN1-1	7/8" - 20	Brass	
TN1-2	7/8" - 20	Brass	
TN2-1	15/16" - 18	Brass	
TN2-2	7/8" - 20	Brass	
TN3-1	7/8" - 20	Brass	
TN4-1	7/8" - 20	Brass	

**CHAIN & PLUG
ASSEMBLIES & DUST CAPS**

PART NO.	DESCRIPTION	SIZE	SERVICE
B-SIZE (9/16"-18 THREAD) * C-SIZE (7/8"-14 THREAD) * D-SIZE (1 1/4"-12 THREAD)			
927	2-Piece Assembly, Gas Tight Seal, Female Oxygen RH Nut & Plug	B-Size	CGA-022
928	2-Piece Assembly, Gas Tight Seal, Female Acetylene LH Nut & Plug	B-Size	CGA-023
DC-B7	1-Piece Dust Cap, Not Gas Tight, Female Oxygen RH	B-Size	CGA-022
DC-B8	1-Piece Dust Cap, Not Gas Tight, Female Acetylene LH	B-Size	CGA-023
C-SIZE			
C-907	2-Piece Assembly, Gas Tight Seal, Female Oxygen, RH Nut & Plug	C-Size	CGA-024
C-908	2-Piece Assembly, Gas Tight Seal, Female Acetylene LH Nut & Plug	C-Size	CGA-025
DC-C7	1-Piece Dust Cap, Not Gas Tight, Female Oxygen RH	C-Size	CGA-024
DC-C8	1-Piece Dust Cap, Not Gas Tight, Female Acetylene LH	C-Size	CGA-025
D-SIZE			
D-907	2-Piece Assembly, Gas Tight Seal, Female Oxygen RH, Nut & Plug	D-Size	CGA-026
D-908	2-Piece Assembly, Gas Tight Seal, Female Acetylene, LH, Nut & Plug	D-Size	CGA-027


CHAIN & PLUG ASSEMBLIES, BRASS
Pressures to 200 PSIG (1400 kPa)



927


PART NO.	DESCRIPTION	GAS	SERVICE
DC-B7	RH Female B-Size	Oxygen	CGA-022
DC-B8	LH Female B-Size	Acetylene	CGA-023
DC-C7	RH Female C-Size	Oxygen	CGA-024
DC-C8	LH Female C-Size	Acetylene	CGA-025
DC-200	"MC" Tank, RH Female	Acetylene	CGA-200
DC-300	RH Female	Coml. Acetylene	CGA-300
DC-320	RH Female	Carbon Dioxide	CGA-320
DC-346	RH Female	Air	CGA-346
DC-350	LH Female	Hydrogen	CGA-350
DC-510	LH Male	POL Acetylene	CGA-510
DC-540	RH Female	Oxygen	CGA-540
DC-580	RH Male	Nitrogen, Argon, Helium	CGA-580
DC-660	RH Female	Mixtures	CGA-660


**MANIFOLD ONE-PIECE
DUST CAP ASSEMBLIES
NOT GAS-TIGHT**




DC-540

**INERT ARC FITTINGS
FOR MIG/TIG TORCHES**

INERT ARC NUTS, BRASS (TIG) Pressures to 200 PSIG (1400 kPa)		PART NO.	DESCRIPTION	SIZE	SERVICE
		A-SIZE (3/8"-24) * B-SIZE (5/8"-18) * C-SIZE (7/8"-14)			
 <p>AW-10A AW-14A</p>	9	Inert Gas, Female RH	A-Size	CGA-020	
	10	Water, Female LH	A-Size	CGA-021	
	AW-21	Water, Male LH	A-Size	CGA-031	
	AW-21A	Inert Gas, Male RH	A-Size	CGA-030	
	Use Above With AW-13, AW-24, A-Size Cable Nipples				
	AW-7	Air-Water, Female RH	B-Size	-	
	Use Above With AW-30 and AW-32 Couplers				
	AW-14	Water, Male LH	B-Size	CGA-033	
	AW-14A	Inert Gas, Male RH	B-Size	CGA-032	
	Use Above With All B-Size Inert Arc Nipples				
AW-10	Water, Male LH	C-Size	CGA-035		
AW-10A	Inert Gas, Male RH	C-Size	CGA-034		
Use Above With All C-Size Power Cable Nipples					

PART NO.	DESCRIPTION	SIZE	INERT ARC NIPPLES, BRASS (TIG) Pressures to 200 PSIG (1400 kPa)
A-SIZE (3/8"-24) * B-SIZE (5/8"-18)			
AW-24	2" Long, Barb for 1/8" ID Hose	A-Size	 <p>AW-13 AW-17</p>
AW-13	2" Long, Barb for 3/16" ID Hose	A-Size	
Use Above With 9, 10, AW-21, AW-21A Nuts			
AW-3	2.175" Long, 1/8" NPT	B-Size	
AW-16	2 7/32" Long, Barb for 1/8" ID Hose	B-Size	
AW-17	2 7/32" Long, Barb for 1/4" ID Hose	B-Size	
AW-18	2 7/32" Long, Barb for 3/16" ID Hose	B-Size	
AW-19	2 7/32" Long, Barb for 3/8" ID Hose	B-Size	
AW-20	2 7/32" Long, Barb for 5/16" ID Hose	B-Size	
Use Above With AW-14, AW-14A, AW-7 Nuts			
AW-16B	1 13/32" Long, for 1/8" ID Hose, .190 OD	B-Size	
AW-40	2" Long, Undersized 1/8" Barb	B-Size	
AW-47	2 7/32" Long, Special 1/4" Barb	B-Size	

INERT ARC ADAPTORS, BRASS Pressures to 200 PSIG (1400 kPa)		PART NO.	DESCRIPTION	SIZE
		MALE TO FEMALE AIR-WATER CONNECTIONS FOR INERT ARC WELDING		
		A-SIZE (3/8"-24") * B-SIZE (5/8"-18") * C-SIZE (7/8"-14")		
 <p>AW-27A AW-15A</p>	AW-12	1/8" NPT Male to A-Size Female LH Water	A-Size	
	AW-12A	1/8" NPT Male to A-Size Female RH Inert Gas	A-Size	
	AW-152	1/8" NPT Male to B-Size Female LH Water	B-Size	
	AW-152A	1/8" NPT Male to B-Size Female RH Inert Gas	B-Size	
	AW-15	1/4" NPT Male to B-Size Female LH Water	B-Size	
	AW-15A	1/4" NPT Male to B-Size Female RH Inert Gas	B-Size	
	AW-28	9/16"-18 Male to B-Size Female LH Water	B-Size	
	AW-28A	9/16"-18 Male to B-Size Female RH Inert Gas	B-Size	
	AW-27	1/4" NPT Male to C-Size Female LH Water	C-Size	
	AW-27A	1/4" NPT Male to C-Size Female RH Inert Gas	C-Size	

**INERT ARC FITTINGS
FOR MIG/TIG TORCHES**

PART NO.		DESCRIPTION
		B-SIZE (5/8"-18)
AW-403	RHM to CGA-022 9/16"-18 RHM	
AW-405	RHF to CGA-022 9/16"-18 RHF	
AW-406	LHF to B-Size RHF	
AW-407	RHM to B-Size RHF -90°	
AW-408	LHM to B-Size LHF -90°	
AW-409	RHM to B-Size RHM	
AW-423	RHM to CGA-023 9/16"-18 LHM	
AW-424	LHM to CGA-023 9/16"-18 LHM	
AW-425	RHF to CGA-023 9/16"-18 LHF	
AW-426	LHF to CGA-023 9/16"-18 LHF	
AW-427	RHM to 1/4" NPT M	
AW-428	LHM to 1/4" NPT M	
AW-432B	9/16" - 18 F to 5/8" - 18 F	

**INERT ARC HOSE
& TORCH ADAPTORS, BRASS**
Pressures to 200 PSIG (1400 kPa)


AW-405 AW-427
AW-409 AW-423 AW-407


PART NO.		DESCRIPTION	SIZE
		INERT ARC HOSE COUPLERS, BRASS Pressures to 200 PSIG (1400 kPa)	A-SIZE (3/8"-24) * B-SIZE (5/8"-18) * C-SIZE (7/8"-14)
<p>AW-431A AW-430</p>		AW-430A CGA-030 RH Female to A-Size RH Female	A-Size
		AW-431A CGA-031 LH Female to A-Size LH Female	A-Size
		AW-430 CGA-032 RH Female to B-Size RH Female	B-Size
		AW-431 CGA-033 LH Female to B-Size LH Female	B-Size
		AW-430B 1/4" NPT Female to CGA-032 RH Female	B-Size
		AW-431B 1/4" NPT Female to CGA-033 LH Female	B-Size
		AW-430C CGA-034 RH Female to C-Size RH Female	C-Size
		AW-431C CGA-035 LH Female to C-Size LH Female	C-Size

PART NO.		DESCRIPTION	SIZE
AW-30	5/8"-18 Male RH to 5/8"-18 Male RH	B-Size	INERT ARC AIR-WATER COUPLERS, BRASS Pressures to 200 PSIG (1400 kPa) <p>AW-30 AW-35</p>
AW-32	1/4"-18 NPT Male to 5/8"-18 Male RH	B-Size	
AW-34	5/8"-18 Male RH to 9/16"-18 Male RH	B-Size	
AW-35	5/8"-18 Male LH to 9/16"-18 Male LH	B-Size	

PART NO.		DESCRIPTION	SIZE
		INERT ARC POWER CABLE ADAPTORS, BRASS (TIG) Pressures to 200 PSIG (1400 kPa)	A-SIZE (3/8"-24) * B-SIZE (5/8"-18) * C-SIZE (7/8"-14)
<p>AW-107 AW-110</p>		AW-110 RH Female to A-Size RH Female, 2 15/16" Long	B-Size
		AW-105 RH Female to B-Size RH Female, 3/4" Hex, 2 1/8" Long	B-Size
		AW-106 RH Female to B-Size RH Female, 3/4" Hex, 2 1/8" Long	B-Size
		AW-107 LH Female to B-Size LH Female, 3/4" Hex, 2 1/8" Long	B-Size
		AW-108 RH Female to B-Size RH Female, 1 1/8" Hex, 2" Long	C-Size
		AW-109 LH Female to B-Size LH Female, 1 1/8" Hex, 2" Long	C-Size

**INERT ARC FITTINGS
FOR MIG/TIG TORCHES**

INERT ARC POWER CABLE NIPPLES & CONNECTOR ASSEMBLIES, BRASS		PART NO.	DESCRIPTION	SIZE
<p>Pressures to 200 PSIG (1400 kPa)</p> 		<p>ONE-PIECE POWER CABLE NIPPLE & TUBE CONNECTOR FOR CRIMPING A-SIZE (3/8"-24) * B-SIZE (5/8"-18)</p>		
		AW-44	1/8" ID Hose, .22 OD Tube, 1 3/4" Long	A-Size
		AW-45	3/16" ID Hose, .245 OD Tube, 2 3/8" Long	A-Size
		AW-46	3/8" ID Hose, .367 OD Tube, 2 3/4" Long	B-Size
		<p>C-SIZE NIPPLES FOR CRIMPING CABLE, USE WITH AW-10 & AW-10A NUT C-SIZE (7/8"-14)</p>		
		AW-26	.225" OD Brass Tube, 1.45" Long	C-Size
		AW-52	.375" OD Copper Tube, 3 3/8" Long	C-Size

ASSEMBLIES WITH COPPER TUBE FOR CRIMPING CABLE COPPER OR BRASS NIPPLE & SWIVEL NUT		PART NO.	DESCRIPTION
AW-22A	Nipple & .312 OD Copper Tube with Brass A-Size RH Swivel Nut, 2-13/16" Long		<p>INERT ARC POWER CABLE NUT, NIPPLE & COPPER TUBE ASSEMBLIES Pressures to 200 PSIG (1400 kPa)</p> 
AW-51	Nipple & .375" OD Copper Tube with RH 7/16"-20 Female Nut, 2 5/16" Long		
AW-53	Nipple & .218" OD Copper Tube with RH 1/4"-28 Female Nut, 1-15/16" Long		
AW-56	Nipple & .375" OD Copper Tube with 5/8"-18 RH Male Nut (AW14-A), 3" Long		

"Y" CONNECTIONS & VALVES

PART NO.	DESCRIPTION	SERVICE
A-SIZE (3/8"-24 THREAD) * B-SIZE (9/16"-18 THREAD)		
101	Oxygen RH: B-Size F Inlet to B-Size M Outlets	CGA-022
102	Acetylene/F. Gases LH: B-Size F Inlet to B-Size M Outlets	CGA-023
113	Oxygen RH: A-Size F Inlet to A-Size M Outlets	CGA-020
114	Acetylene/F. Gases LH: A-Size F Inlet to A-Size M Outlets	CGA-021
401	Inert Gas RH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-032
402	Water, Industrial Air LH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-033
PRESSURES TO 3000 PSIG (20,700 kPa)		
111-5	Short "Y" Connection: 1/4" NPT M Inlet to 1/4" NPT F Outlets	-
111-6	Short "Y" Connection: 1/8" NPT F Inlet +0 1/4" NPT F Outlets	-

"Y" CONNECTIONS, BRASS

Pressures to 200 PSIG (1400 kPa)



PART NO.	DESCRIPTION	SERVICE
VALVED "Y" CONNECTIONS, BRASS		
Pressures to 200 PSIG (1400 kPa)		
<ul style="list-style-type: none"> For use of two cutting and/or two welding torches at once Precision shut off valves 		
B-SIZE (9/16"-18 THREAD)		
111 *	Oxygen RH: B-Size F Inlet to B-Size M Outlets	CGA-022
112 *	Acetylene/F. Gases LH: B-Size F Inlet to B-Size M Outlets	CGA-023
115	Oxygen RH: A-Size F Inlet to A-Size M Outlets	CGA-020
116	Acetylene/F. Gases LH: A-Size F Inlet to A-Size M Outlets	CGA-021
411	Inert Gas RH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-032
412	Water, Industrial Air LH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-033
* Sold in retail clamshell packaging		





PART NO.	OUTLET	SERVICE	GAS
1/2" NPT MALE INLET * 7/8"-14 CGA MALE OUTLET			
WSV-1-1	RH, Gas Tight Plug/Chain	CGA-024	Oxygen
WSV-1-2	LH, Gas Tight Plug/Chain	CGA-025	Fuel Gas
WSV-1-1P	RH, No Outlet Protection	CGA-024	Oxygen
WSV-1-2P	LH, No Outlet Protection	CGA-025	Fuel Gas
WSV-1-1DC	RH, Dust Cap and Chain	CGA-024	Oxygen
WSV-1-2DC	LH, Dust Cap and Chain	CGA-025	Fuel Gas

VALVES, BRASS

Pressures to 200 PSIG (1400 kPa)
UL Listed



	PART NO.	BODY & SEAT STYLE	DESCRIPTION	MAX PSIG	
<p>CARTRIDGE VALVES STAINLESS STEEL, 1/4" NPT X 1/4" NPT</p>  <p>110 Body Style</p>	SS-110S	Male, Metal-To-Metal Seat	For corrosive gases	6000	
	SS-110K	Male, Soft Seat	Minimal force shut-off	3000	
	SS-110M	Male, Metering Seat	Fine thread for accuracy	6000	
	SS-120S	Male 90°, Metal-To-Metal Seat	For corrosive gases	6000	
	SS-120K	Male 90°, Soft Seat	Minimal force shut-off	3000	
	SS-120M	Male 90°, Metering Seat	Fine thread for accuracy	6000	
	SS-130S	Female, Metal-To-Metal Seat	For corrosive gases	6000	
	SS-130M	Female, Metering Seat	Fine thread for accuracy	6000	
	REPLACEMENT CARTRIDGES				
	SS-CS	Metal-To-Metal Seat Cartridge			
SS-CK	Soft Seat Cartridge				

PART NO.	DESCRIPTION	
B-SIZE (9/16"-18 THREAD)		<p>BRASS BODY VALVES FOR NON-CORROSIVE GASES Pressures to 200 PSIG (1400 kPa)</p>  <p>205 215-AR</p>
203	Oxygen CGA-022: Inlet: B-Size Female Swivel Nut RH; Outlet: B-Size Male RH	
204	Acetylene/F. Gases CGA-023: Inlet: B-Size Female Swivel Nut LH; Outlet: B-Size Male LH	
205	Oxygen CGA-022: Inlet: 1/4" NPT Male; Outlet: B-Size Male RH	
206	Acetylene/F. Gases CGA-023: Inlet: 1/4" NPT Male; Outlet: B-Size Male LH	
207	Oxygen CGA-022: Inlet: B-Size Male RH; Outlet: 1/4" NPT Male	
208	Acetylene/F. Gases CGA-023: Inlet: B-Size Male LH; Outlet: 1/4" NPT Male	
208-F	Acetylene/F. Gases CGA-023: Inlet: B-Size Male LH; Outlet: 1/4" NPT Female	
212	Acetylene/F. Gases CGA-023: Inlet: B-Size Male LH; Outlet: 1/8" NPT Female	
209	Oxygen CGA-022: Inlet: B-Size Male RH; Outlet: B-Size Male RH	
210	Acetylene/F. Gases CGA-023: Inlet: B-Size Male LH; Outlet: B-Size Male LH	
215-AR	Inert Gas CGA-032: Inlet: 1/4" NPT Male; Outlet: 5/8"-18 Female RH	
215-AL	Inert Gas CGA-033: Inlet: 1/4" NPT Male; Outlet: 5/8"-18 Female LH	
215-FR	Inert Gas CGA-032: Inlet: 5/8"-18 Male Swivel Nut RH; Outlet: 5/8"-18 Female RH	
PRESSURES TO 3000 PSIG (20,700 kPa)		
	All Non-Corrosive Gases:	
211-E	Inlet: 1/8" NPT Male; Outlet: 1/8" NPT Male	
211	Inlet: 1/4" NPT Male; Outlet: 1/4" NPT Male	
217	Inlet: 1/4" NPT Male; Outlet: 1/4" NPT Female	
218	Inlet: 1/4" NPT Female; Outlet 1/4" NPT Male	
218-D	Inlet: 1/4" NPT Female; Outlet 1/4" NPT Female	

SAFETY RELIEF VALVES

For Gaseous or Liquid Nitrogen, Oxygen, Air and other Cryogenic Fluids

- Use in cryogenic, pressure vessel, manifold and other demanding applications
- Silicone seat provides superior sealing/resealing
- Heavy duty brass construction resists corrosion

1/4" NPT RELIEF VALVE


- Accurate Cracking Pressure:
± 3 PSIG to 70 PSIG
4% of set pressure over 70 PSIG
- Temperature Range:
-100°F to +165°F
-73°C to +74°C
- Pressure Settings (PSIG)
22, 35, 50, 100, 125, 230, 235, 350
(others available upon request)
- Orifice Size: 1/4" Diameter
- Flow Coefficient
(Cv Factor): .65 Typical

1/2" NPT RELIEF VALVE


- Accurate Cracking Pressure:
± 5 PSIG to 100 PSIG
± 10 PSIG of set pressure over 100 PSIG
- Temperature Range:
-100°F to +165°F
-73°C to +74°C
- Pressure Settings (PSIG)
60, 75, 100, 150, 200, 250, 375
(others available upon request)
- Orifice Size: 5/16" Diameter
- Flow Coefficient
(Cv Factor): 1.3 Typical


PART NO.		DESCRIPTION
1/4" NPT Inlet Relief Valves		
WMV-4-22		22 PSIG Setting
WMV-4-35		35 PSIG Setting
WMV-4-50		50 PSIG Setting
WMV-4-100		100 PSIG Setting
WMV-4-125		125 PSIG Setting
WMV-4-230		230 PSIG Setting
WMV-4-235		235 PSIG Setting
WMV-4-350		350 PSIG Setting
WMV-4-7		Pipe-away Adaptor, All Models
1/2" NPT Inlet Relief Valves		
WMV-8-60		60 PSIG Setting
WMV-8-75		75 PSIG Setting
WMV-8-100		100 PSIG Setting
WMV-8-150		150 PSIG Setting
WMV-8-200		200 PSIG Setting
WMV-8-250		250 PSIG Setting
WMV-8-300		300 PSIG Setting
WMV-8-350		350 PSIG Setting
WMV-8-375		375 PSIG Setting
WMV-8-7		Pipe-away Adaptor, All Models


SAFETY RELIEF VALVES, BRASS





CRIMPING TOOLS

 BRASS DUAL HOSE BRACES, OVAL	PART NO.	INSIDE DIMENSION	LENGTH	METAL THICKNESS
	Dimensions In Inches			
9116	9116	.448 x .890	15/32	.019
	9979	.474 x .943	15/32	.019
	9940-P	.535 x 1.071	3/4	.024
	453	.593 x 1.238	3/4	.025
	453-A	.640 x 1.310	3/4	.025
	454	.700 x 1.325	3/4	.025

PART NO.	FOR HOSE ID	CLAMP ID	 HOSE CLAMPS
Dimensions In Inches			
500	3/16"	7/16"	
501	1/4"	1/2"	
502	1/4"	9/16"	
503	3/8"	5/8"	
504	3/8"	11/16"	
505	3/8"	3/4"	

 HAND-HELD FERRULE CRIMP TOOLS	PART NO.	DESCRIPTION
	Crimp with Hammer Strike or Vise Pressure:	
	C-1	2 Hole Jaw 5/8" Wide, Use on 3/16", 1/4" Hose
	C-3	3 Hole Jaw 1" Wide, Use on 3/16", 1/4", 3/8" Hose
	C-3B	3 Hole Jaw 1" Wide, Use on 1/4", 5/16", 3/8" Hose
Crimp with Hand-Grip Pressure:		
	C-5	2 Hole Jaw 1/2" Wide, Use on 3/16", 1/4" Hose
	C-5A	3 Hole Jaw 1/2" Wide, Use on 5/16", 11/32", 27/64" Hose
	C-6	2 Hole Jaw 1/2" Wide, Use on 5/8", 11/16" Hose

PART NO.	DESCRIPTION	 BENCH FERRULE CRIMPING TOOL
5111-A	Bench Model Hose Crimper Dies need to be ordered separately Dies are available in standard sets listed in Ferrule Table on page 20. Each set includes four segments. Dies are available with plain contracting surface (CD) or special three-ribbed surface (CDR). Sets are ordered by using die numbers in the Ferrule Table. Examples: Plain Die for Ferrule K-K: Order CD-38 Ribbed Die for Ferrule K-K: Order CDR-37	

 HEAVY-DUTY FERRULE CRIMP MACHINE	PART NO.	DESCRIPTION
	Crimps Ferrules on 3/16", 1/4", 5/16", 3/8" Hose. Die Width, 1/2"	CR-100
Replacement Parts:		
CR-100A		Die Block #1 with Pin
CR-100B		Die Block #2
CR-100C		Die Block #3
CR-100D		Die Block #4
CR-100E		Die Block #5 (2 pcs.)
CR-100F		Replacement Handle
CR-100G		Handle Pivot Pin only
CR-100H		Handle Pivot Pin/Ring set
	CR-100J	Cap Screw

**BRASS HOSE
FERRULES**



PART NO.	INSIDE DIAMETER	LENGTH	RECOMMENDED HAND CRIMP TOOL	5111-A DIE	
				PLAIN	RIBBED
Listed By Size In Inches * Smallest To Largest ID					
6231	.330	1/2"	C-5A	-	CDR-46
833	.358	1/2"	C-5A	-	CDR-45
622	.380	1/2"	C-5A	-	-
620	.410	1/2"	C-5A	-	-
769	.450	9/16"	C-1, C-5, C-5A, CR-100	-	CDR-41
4750	.478	11/16"	CR-100	-	CDR-41
624	.500	1/2"	CR-100	-	CDR-40
7322	.500	1"	C-3B	-	CDR-39
625	.525	1/2"	C-3B	-	CDR-39
7323	.525	1"	C-3B	CD-38	CDR-38
626	.548	31/64"	C-3B	-	CDR-38
7325	.562	1"	C-3B, C-5, CR-100	CD-38	CDR-37
3588	.564	3/4"	C-3B, C-5, CR-100	CD-38	CDR-37
K-K	.575	31/64"	C-1, C-3B, C-5, C-3, CR-100	CD-38	CDR-37
7326	.593	1"	C-1, C-3B, C-3, C-5	-	CDR-36
J-J	.600	1/2"	C-1, C-3B, C-3, C-5	-	CDR-36
I-I	.625	1/2"	C-3B, C-6, CR-100	-	CDR-35
7327	.625	1"	C-3B, C-6, CR-100	-	CDR-35
H-H	.650	1/2"	C-6	-	CDR-34
7328	.656	1"	C-3B, C-6, CR-100	-	CDR-34
G-G	.675	33/64"	C-3B, C-6, CR-100	-	-
7329	.687	1"	C-3, C-6, CR-100	-	-
F-F	.700	33/64"	C-3, C-6, CR-100	-	CDR-32
7330-B	.718	1"	C-3, C-6	-	-
E-E	.725	17/32"	C-3, C-6	-	-
7331	.750	1"	C-3, C-6	-	-
C-C	.775	17/32"	C-3, C-6	-	-
7332	.781	1"	C-3, C-6	-	-
7333	.812	1"	5111-A**	CD-28	-
7244-A	.875	27/32"	5111-A**	CD-26	CDR-25
5029-A	.900	27/32"	5111-A**	CD-25	-
7242-A	.937	27/32"	5111-A**	-	-
5028-A	.975	27/32"	5111-A**	CD-22	-

Since there is no industry standard for hose wall thickness, the ID of the hose cannot be used to determine the correct ferrule. To determine the proper size ferrule, measure the OD of the hose (as a decimal) and go up to the next larger size Ferrule ID listed above.

Example: If the hose OD is .555 "use a #7325 Ferrule, which has an ID of .562".

See page 19 for listing and descriptions of all Western hand crimp tools and model 5111-A bench tool.

** Use of hand tool is not recommended. Model 5111-A is a heavy-duty bench style ferrule machine.

HOSE REPAIR KITS



HOSE REPAIR KITS

Hose repair kits include crimping tool, nuts, couplers, splicers, nipples and ferrules. (See page 19 for more information on crimp tools included in the kits)

PART NO.	DESCRIPTION
HOSE REPAIR KITS WITH "HAMMER-STRIKE" CRIMP TOOL: A-SIZE (3/8"-24) & B-SIZE (9/16"-18) FITTINGS	
CK-1	Kit with C-1 Crimp Tool for 3/16", 1/4" ID Hose
CK-3	Kit with C-3 Crimp Tool for 3/16", 1/4", 3/8" ID Hose
CK-20	Kit with C-1 Crimp Tool for 3/16", 1/4" ID Hose
CK-22	Kit with C-1 Crimp Tool, for 1/4" ID Hose, B-Size Fittings Only
HOSE REPAIR KITS WITH "HAND-GRIP" CRIMP TOOL: B-SIZE (9/16"-18) FITTINGS ONLY	
CK-5	Kit with C-5 Crimp Tool for 3/16", 1/4" ID Hose (A & B size nuts)
CK-6	Kit with C-6 Crimp Tool for 5/16", 3/8" ID Hose
CK-24	Kit with C-5 Crimp Tool for 3/16", 1/4" ID Hose
CK-26	Kit with C-5 Crimp Tool for 1/4" ID Hose, B-Size Fittings Only
MINI HOSE REPAIR KIT	
CK-27	A-Size (3/8"- 24) & B-Size (9/16"- 18) Mini Kit (Does not include Crimp Tool)
CK-28	B-Size (9/16"- 18) Mini Kit for 1/4" ID Hose (Does not include Crimp Tool)
CK-30	B-Size Inert (5/8"- 18) Mini Kit for 1/4" ID Hose (Does not include Crimp Tool)
HOSE REPAIR KIT B-SIZE (9/16"-18) FITTINGS ONLY	
CK-7	B-Size (9/16"-18) Kit, 189 Fittings in Case (Does not include Crimp Tool)
CK-8	A-Size (3/8"- 24) Kit, 94 Fittings in Case (Does not include Crimp Tool)
HOSE REPAIR KIT CASE ONLY	
A10004	Western Kit Case, 11" x 7" x 1 1/4"

	PART NO.	DESCRIPTION
BRASS FERRULE & CRIMPING TOOL KIT	CK-10	Ferrule Kit, 134 Pieces, C-3B Crimp Tool

PIPE THREAD FITTINGS

PART NO.	DESCRIPTION	MATERIAL	MAX PSIG (kPa)
(90° Female to Female NPT)			
BEL-4-4LP	1/4" x 1/4"	Brass	1000 (6900)
BEL-4HP	1/4" x 1/4"	Brass	3000 (20,700)
BEL-6HP	3/8" x 3/8"	Brass	3000 (20,700)
BEL-8HP	1/2" x 1/2"	Brass	3000 (20,700)
(90° Female to Male NPT)			
BL-2-2LP	1/8" x 1/8"	Brass	1000 (6900)
BL-2HP	1/8" x 1/8"	Brass	3000 (20,700)
BL-4-2LP	1/4" x 1/8"	Brass	1000 (6900)
BL-4-4LP	1/4" x 1/4"	Brass	1000 (6900)
BL-4SS	1/4" x 1/4"	Stainless Steel	6000 (41,300)
BL-4HP	1/4" x 1/4"	Brass	3000 (20,700)
BL-6HP	3/8" x 3/8"	Brass	3000 (20,700)
BL-8HP	1/2" x 1/2"	Brass	3000 (20,700)
(45° Female to Male NPT)			
BSL-4-4LP	1/4" x 1/4"	Brass	1000 (6900)
BSL-4HP	1/4" x 1/4"	Brass	3000 (20,700)

PIPE THREAD ELBOWS



PART NO.	DESCRIPTION	MATERIAL	MAX PSIG (kPa)
PIPE THREAD CROSSES			
4-Way Female			
BCR-4LP	1/4" NPT	Brass	1000 (6900)
BCR-4HP	1/4" NPT	Brass	3000 (20,700)
BCR-4SS	1/4" NPT	St. Steel	6000 (41,300)



PART NO.	DESCRIPTION	MATERIAL	MAX PSIG (kPa)
3-Way Female:			
BFT-2LP	1/8" NPT	Brass	1000 (6900)
BFT-2HP	1/8" NPT	Brass	3000 (20,700)
BFT-4LP	1/4" NPT	Brass	1000 (6900)
BFT-4HP	1/4" NPT	Brass	3000 (20,700)
BFT-4SS	1/4" NPT	St. Steel	6000 (41,300)
BFT-6HP	3/8" NPT	Brass	3000 (20,700)
BFT-12HP	3/4" NPT	Brass	3000 (20,700)
Female x Male:			
BMT-2HP	1/8" NPT (Branch)	Brass	3000 (20,700)
BMT-4LP	1/4" NPT (Branch)	Brass	1000 (6900)
BST-4LP	1/4" NPT (Street)	Brass	1000 (6900)
BMT-4HP	1/4" NPT (Branch)	Brass	3000 (20,700)
BST-4HP	1/4" NPT (Street)	Brass	3000 (20,700)


PIPE THREAD TEES





PART NO.	DESCRIPTION	LENGTH	HEX
PIPE THREAD REDUCER COUPLINGS, FEMALE TO FEMALE			
BRASS, PRESSURES TO 3000 PSIG (20,700 kPa)			
BF-4-2HP	1/4" NPT x 1/8" NPT	1.093"	3/4"
BF-6-4HP	3/8" NPT x 1/4" NPT	1.281"	7/8"
BF-8-4HP	1/2" NPT x 1/4" NPT	1.671"	1-1/8"
BF-12-8HP	3/4" NPT x 1/2" NPT	1.700"	1-3/8"




PIPE THREAD FITTINGS

	PART NO.	DESCRIPTION	MATERIAL	LENGTH	HEX
<p>PIPE THREAD ADAPTORS, FEMALE TO MALE To 3000 PSIG (20,700 kPa):</p>  <p>BA-4-2HP</p>	BA-4-2HP	1/4" NPT x 1/8" NPT	Brass	1.062"	3/4"
	BA-4HP	1/4" NPT x 1/4" NPT	Brass	1.281"	3/4"
	BA-6-4HP	3/8" NPT x 1/4" NPT	Brass	1.312"	7/8"
	BA-8-4HP	1/2" NPT x 1/4" NPT	Brass	1.500"	1-1/8"
	BA-8-6HP	1/2" NPT x 3/8" NPT	Brass	1.562"	1-1/8"


PART NO.	DESCRIPTION	MATERIAL	LENGTH	HEX	
To 3000 PSIG (20,700 kPa):					<p>PIPE THREAD HEX NIPPLES, MALE TO MALE</p>  <p>B-4HP B-4SS</p>
B-2HP	1/8" NPT x 1/8" NPT	Brass	.937"	7/16"	
B-4HP	1/4" NPT x 1/4" NPT	Brass	1.437"	5/8"	
B-6HP	3/8" NPT x 3/8" NPT	Brass	1.500"	11/16"	
B-8HP	1/2" NPT x 1/2" NPT	Brass	1.875"	7/8"	
B-9HP	3/4" NPT x 3/4" NPT	Brass	1.937"	1-1/8"	
To 6000 PSIG (41,300 kPa)					
B-4SS	1/4" NPT x 1/4" NPT	St. Steel	1.437"	5/8"	

	PART NO.	DESCRIPTION	MATERIAL	LENGTH	HEX
<p>PIPE THREAD COUPLINGS, FEMALE TO FEMALE</p>  <p>BF-4HP BF-4SS</p>	To 3000 PSIG (20,700 kPa):				
	BF-2HP	1/8" NPT x 1/8" NPT	Brass	.800"	9/16"
	BF-4HP	1/4" NPT x 1/4" NPT	Brass	1.187"	3/4"
	BF-6HP	3/8" NPT x 3/8" NPT	Brass	1.180"	7/8"
	BF-8HP	1/2" NPT x 1/2" NPT	Brass	1.500"	1-3/8"
	BF-12HP	3/4" NPT x 3/4" NPT	Brass	1.520"	1-3/8"
	To 6000 PSIG (41,300 kPa):				
BF-4SS	1/4" NPT x 1/4" NPT	St. Steel	1.187"	3/4"	

PART NO.	DESCRIPTION	MATERIAL	LENGTH	HEX	
B-4-2HP	1/4" NPT x 1/8" NPT	Brass	1.250"	5/8"	<p>PIPE THREAD REDUCER BUSHINGS, MALE TO MALE Pressures to 3000 PSIG 20,700 kPa)</p>  <p>B-4-2HP</p>
B-6-4HP	3/8" NPT x 1/4" NPT	Brass	1.467"	11/16"	
B-8-4HP	1/2" NPT x 1/4" NPT	Brass	1.687"	7/8"	
B-8-6HP	1/2" NPT x 3/8" NPT	Brass	1.718"	7/8"	


PIPE THREAD FITTINGS

PART NO.	DESCRIPTION	MATERIAL	LENGTH	HEX	
BE-2-25HP	1/8" NPT	Brass	2-1/2"	9/16"	PIPE THREAD EXTENSION ADAPTORS, FEMALE TO MALE Pressures to 3000 PSIG (20700 kPa)
BE-4-3HP	1/4" NPT	Brass	3"	3/4"	




BE-4-3HP

	PART NO.	DESCRIPTION	LENGTH	MATERIAL	HEX
PIPE THREAD BUSHINGS, FEMALE TO MALE Pressures to 3000 PSIG (20,700 kPa)	BB-2-4HP	1/8" NPT x 1/4" NPT	.875"	Brass	5/8"
	BB-2-6HP	1/8" NPT x 3/8" NPT	.906"	Brass	11/16"
	BB-4-6HP	1/4" NPT x 3/8" NPT	.968"	Brass	3/4"
	BB-4-8HP	1/4" NPT x 1/2" NPT	1.125"	Brass	7/8"
	BB-4-12HP	1/4" NPT x 3/4" NPT	1.168"	Brass	1-1/8"
	BB-6-8HP	3/8" NPT x 1/2" NPT	1.125"	Brass	7/8"
	BB-8-12HP	1/2" NPT x 3/4" NPT	1.168"	Brass	1-1/8"




BB-4-8HP

PART NO.	DESCRIPTION	MATERIAL	HEX	
Pressures to 3000 PSIG (20,700 kPa)				PIPE THREAD CAPS & PLUGS
PC-2HP	Cap, 1/8" NPT F	Brass	5/8"	
PC-4HP	Cap, 1/4" NPT F	Brass	3/4"	
PC-6HP	Cap, 3/8" NPT F	Brass	7/8"	
PC-8HP	Cap, 1/2" NPT F	Brass	1-1/8"	
P-4HP	Hex Plug, 1/4" NPT M	Brass	5/8"	
P-6HP	Hex Plug, 3/8" NPT M	Brass	7/8"	
P-8HP	Hex Plug, 1/2" NPT M	Brass	1-1/8"	
Pressures to 6000 PSIG (41,300 kPa)				
P-4SS	Hex Plug, 1/4" NPT	Stainless Steel	5/8"	



P-4HP **PC-4HP**

	PART NO.	DESCRIPTION	MATERIAL	LENGTH
PIPE THREAD NIPPLES, MALE Pressures to 3000 PSIG (20,700 kPa)	BN-2-25HP	1/8" NPT	Brass	2-1/2"
	BN-4-15HP	1/4" NPT	Brass	1-1/2"
	BN-4-20HP	1/4" NPT	Brass	2"
	BN-4-30HP	1/4" NPT	Brass	3"
	BN-4-35HP	1/4" NPT	Brass	3-1/2"
	BN-4-50HP	1/4" NPT	Brass	5"
	BN-6-35HP	3/8" NPT	Brass	3-1/2"
	BN-8-35HP	1/2" NPT	Brass	3-1/2"



BN-4-20HP

**REGULATOR INLET
FILTERS & RINGS
FOR NIPPLES**

ORDERING INFORMATION – FILTERS FOR REGULATOR INLET NUTS & NIPPLES

Most brass and stainless steel nipples may be ordered in any of the following 3 configurations:

1. BRASS AND STAINLESS STEEL NIPPLES WITHOUT A FILTER.

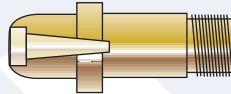
Simply order the part numbers as listed in the tables on pages 25 through 32 of this catalog.

2. BRASS NIPPLES REQUIRING A FILTER RECESS. (NO FILTER INSTALLED)

Add a “-S” to the part numbers listed in the tables on pages 25 through 32 of this catalog.

Brass nipples may be ordered with a filter recess. Filters are placed at the front or rear of the nipple, depending on the nipple design.

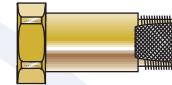
Example:



Part No. 63 - S - Brass Nipple with recess

3. BRASS AND STAINLESS STEEL NIPPLES WITH INSTALLED FILTER.

Add a “-SF” to the part numbers listed in the tables of pages 25 through 32 of this catalog.



Part No. CO - 3SF - 100 Mesh stainless steel filter

PART NO.		DESCRIPTION	FILTERS FOR REGULATOR INLET NIPPLES	
S-2		100 Mesh Stainless Steel: 140 Microns	<p>S-2 100 - Mesh Stainless Steel</p>	<p>S-3 Porous Metal</p>
S-3		Porous Metal: Nickel Plated Bronze, 45 Microns		
<p>* May be used with all stainless steel and brass nipples, except for CGA-320 nipples</p>				

PART NO.		DESCRIPTION
<p>RETAINER RING FOR SELECTED NIPPLES</p> <p>In Position</p>		<p>M00-5 Nipple Retainer Ring, Steel</p> <p>*For use only in specially grooved nipples. Ring prevents nut from sliding down to the nipple.</p>

REGULATOR INLET NUTS & NIPPLES

PRODUCT SPECIFICATION GUIDE AND ORDERING INFORMATION FOR REGULATOR INLET NUTS AND NIPPLES

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

- Brass nut and nipple
- Stainless steel nut and nipple
- Nut and nipple with check valve
- Nut and nipple recessed for tubing
- Hand tight nut and nipple

Please note that all types may not be available for certain gas services.

NIPPLES WITH CHECK VALVES

Nipples with integral check valves are designed to provide additional safety in Manifold 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.

Check valves are for reverse flows only - they are not to be used as Flashback Arrestors.


(See page 36 for more information on Western's line of flashback arrestors.)

HAND TIGHT NUTS & NIPPLES


Western Hand-Tight Nuts provide for easy installation and are available in brass or with plastic grips.

- Lightweight plastic grips have labels which are color-coded for gas service.
- All brass 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 PSIG do not have soft tips and final gas-tight seating requires wrench action.

PART NO.	PART	DESCRIPTION	SERVICE
CGA - 110 FOR GASES IN SMALL CYLINDERS:			
110-3SF	Nipple	Brass, 1/8" NPT, 1-3/4" Long, .3125-32 UNEF-2A-RH-EXT	CGA-110
CGA - 170 FOR NON-CORROSIVE GASES IN SMALL CYLINDERS:			
170-2	Nut	Brass, .5625"-18 UNF-2B-RH Female	CGA-170
170-3SF	Nipple	Brass, 1/8" NPT, 1-1/2" Long	CGA-170
170-4	Washer	Nylon	CGA-170
170-5	Adaptor	Brass, 1/8" NPT, 1-1/32" Long	CGA-170
CGA - 180 FOR NON-CORROSIVE GASES IN SMALL CYLINDERS:			
180-2	Nut	Brass, .625"-18 UNF-2B, RH Female	CGA-180
180-3	Nipple	Brass, 1/8" NPT, 1-3/4" Long	CGA-180
180-4	Washer	PTFE	CGA-180
180-5	Adaptor	Brass, CGA-180 to 1/4" NPT Male	CGA-180




REGULATOR NUTS & NIPPLES, BRASS
Pressures to 3000 PSIG (20,700 kPa)



170-4

PART NO.	PART	DESCRIPTION	SERVICE
REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL Pressures to 500 PSIG (3400 kPa)			
CGA - 200 FOR "MC" TANK ACETYLENE:			
305-2	Nut	Brass, "MC" T, .628"-20 NGO, RH Female	CGA-200
305-3	Nipple	Brass, 7/16"-20, 1 1/4" Long	CGA-200
305-3A	Nipple	Brass, 1/8" NPT, 1 1/4" Long	CGA-200




REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL
Pressures to 500 PSIG (3400 kPa)


**REGULATOR INLET
NUTS & NIPPLES**

PART NO. PART		DESCRIPTION	SERVICE
NIPPLE ASSEMBLY		CGA - 240 FOR AMMONIA:	
Pressures to 500 PSIG (3445 kPa)		SS-24-3 Nipple	St. Steel, Nipple, 1/4" NPT CGA-240

PART NO.	PART	DESCRIPTION	SERVICE
CGA - 280 FOR MEDICAL BREATHING MIXTURES:			
284	Nut	Brass, .750"-14 NGO, RH Female	CGA-280
283	Nipple	Brass, 1/4" NPT, 2" Long	CGA-280
CGA - 296 FOR INDUSTRIAL MIXTURES OF OXYGEN:			
29-2	Nut	Brass, .803"-14 UNS-2A, RH Male	CGA-296
29-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-296
6296	Nut	Brass, Hand-Tight, RH Male	CGA-296
6296-3	Nipple	Hand-Tight, 1/4" NPT, 3" Long	CGA-296
6296-0	O-Ring	Replacement	CGA-296

REGULATOR NUTS & NIPPLES, BRASS
Pressures to 3000 PSIG (20,700 kPa)



PART NO. PART		DESCRIPTION	SERVICE
REGULATOR NUTS & NIPPLES, BRASS		CGA - 300 FOR COMMERCIAL ACETYLENE:	
Pressures to 500 PSIG (3445 kPa)		16-2 Nut	Brass, .830"-14 NGO, RH Female CGA-300
		16-3 Nipple	Brass, 1/4" NPT, 1 15/16" Long CGA-300
		16-8 Nipple	Brass, 1/4" NPT, 2 1/2" Long CGA-300
		16-8CV Nipple	Brass, 1/4" NPT, 2 1/2" Long w/CV CGA-300
		616-2 Nut	Brass, Hand-Tight RH Female CGA-300
		616-2P Nut	Hand-Tight, Plastic Grip, RH Female CGA-300
		616-3 Nipple	Hand-Tight, 1/4" NPT, 2 1/2" Long CGA-300
		616-PT Tip	Soft Tip, Replacement CGA-300


**REGULATOR INLET
NUTS & NIPPLES**

PART NO.	PART	DESCRIPTION	SERVICE
CGA - 320 FOR CARBON DIOXIDE:			
CO-2	Nut	Brass, .830"-14 NGO RH Female	CGA-320
CO-3	Nipple	Brass, 1/4" NPT, 2" Long w/washer	CGA-320
CO-4	Nipple	Brass, 1/4" NPT, 2 1/2" Long w/washer	CGA-320
CO-4CV	Nipple	Brass, 1/4" NPT, 2 1/2" Long w/Check	CGA-320
CO-7	Nipple	Brass, 1/2"-27, 2 1/2" Long	CGA-320
CO-8	Nipple	Brass, 1/4" NPT, LH, 2" Long	CGA-320
CO-3M2	Nipple	Recessed for 5/16" OD Tube	CGA-320
6-CO-2	Nut	Brass, Hand-Tight, RH Female	CGA-320
6-CO-2P	Nut	Plastic Grip, Hand-Tight, RH Female	CGA-320
6-CO-4	Nipple	Hand-Tight, 1/4" NPT, 2 1/2" Long	CGA-320
6-CO-4M1	Nipple	Hand-Tight, Recessed for 1/4" Tube	CGA-320
SS-CO-2	Nut	St. Steel, .830"-14 NGO, RH Female	CGA-320
SS-CO-3	Nipple	St. Steel, 1/4" NPT, 2" Long	CGA-320
CO-1TW	Washer	PTFE, Snap-In	CGA-320
CO-5	Washer	Fiber, Flat	CGA-320
CO-6	Washer	PTFE, Flat	CGA-320
CO-6N	Washer	Nylon, Snap-In	CGA-320
CGA - 326 FOR NITROUS OXIDE:			
13-2	Nut	Brass, .830"-14 NGO, RH Female	CGA-326
13-3	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-326
13-3CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/Check V	CGA-326
613-2	Nut	Brass, Hand-Tight, RH Female	CGA-326
613-2P	Nut	Plastic Grip, Hand-Tight, RH Female	CGA-326
613-5	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-326
613-KPT	Tip	Soft Tip, Replacement	CGA-326
SS-13-2	Nut	St. Steel, .830"-14 NGO, RH Female	CGA-326
SS-13-3	Nipple	St. Steel, 1/4" NPT, 2-1/2" Long	CGA-326
CGA - 330 FOR NON-CORROSIVE GASES (BRASS) OR CORROSIVE GASES (STAINLESS STEEL):			
334	Nut	Brass, .830"-14 NGO, LH Female	CGA-330
333	Nipple	Brass, 1/4" NPT, 2" Long	CGA-330
333-A	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-330
SS-334	Nut	St. Steel, .830"-14 NGO, LH Female	CGA-330
SS-333	Nipple	St. Steel, 1/4" NPT, 2" Long	CGA-330
335	Washer	PTFE	CGA-330
CO-6N	Washer	Nylon, Snap-In	CGA-330
CGA - 346 FOR AIR:			
14-2	Nut	Brass, .830"-14 NGO, RH Female	CGA-346
14-3	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-346
14-3CV	Nipple	Brass, 1/4" NPT, 2 -/2" Long w/Check	CGA-346
614-2	Nut	Brass, Hand-Tight, RH Female	CGA-346
614-2P	Nut	Plastic Grip, Hand-Tight, RH Female	CGA-346
614-5	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-346
614-KPT	Tip	Soft Tip Replacement	CGA-346
SS-14-2	Nut	St. Steel, .830"-14 NGO, RH Female	CGA-346
SS-14-3	Nipple	St. Steel, 1/4" NPT, 2-1/2" Long	CGA-346

**REGULATOR NUTS & NIPPLES,
BRASS & STAINLESS STEEL**
Pressures to 3000 PSIG (20,700 kPa)




**REGULATOR INLET
NUTS & NIPPLES**

REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL		PART NO.	PART	DESCRIPTION	SERVICE
 <p>347-2 347-3</p> <p>Pressures 3001 PSIG TO 5500 PSIG (37,950 kPa)</p>		CGA - 347 FOR AIR/HIGH PRESSURE:			
		347-2	Nut	Brass, .830"-14 NGO, RH Female	CGA-347
		347-3	Nipple	Brass, 1/4" NPT, 3" long	CGA-347
		6347-2	Nut	Hand-Tight, RH Female	CGA-347
		6347-3	Nipple	Hand-Tight, 1/4" NPT, 3" Long	CGA-347
		6347-3-3	O-Ring	Replacement	CGA-347
		SS-347-2	Nut	St. Steel, .830"-14 NGO, RH Female	CGA-347
		SS-347-3	Nipple	St. Steel, 1/4" NPT, 3" Long	CGA-347
		SS-6347-2	Nut	Hand-Tight, St. Steel, RH Female	CGA-347
		SS-6347-3	Nipple	Hand-Tight, St. Steel, 1/4" NPT, 3" Long	CGA-347


PART NO.	PART	DESCRIPTION	SERVICE
CGA - 350 FOR HYDROGEN/NATURAL GAS:			
82	Nut	Brass, .830"-14 NGO, LH Female	CGA-350
83	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-350
83-CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/Check V	CGA-350
83-M1	Nipple	Recessed for 1/4" OD Tube	CGA-350
83-M2	Nipple	Recessed for 5/16" OD Tube	CGA-350
87	Nipple	Brass, 1/4" NPT, 3" Long	CGA-350
682	Nut	Brass, Hand-Tight, LH Female	CGA-350
682P	Nut	Plastic Grip, Hand-Tight, LH Female	CGA-350
683	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-350
683-PT	Tip	Soft Tip Replacement	CGA-350
SS-82	Nut	St. Steel, .830"-14 NGO, LH Female	CGA-350
SS-83	Nipple	St. Steel, 1/4" NPT, 2-1/2" Long	CGA-350
SS-83M1	Nipple	Recessed for 1/4" OD Tube	CGA-350
CGA - 410 FOR CANADIAN ACETYLENE:			
410-2	Nut	Brass, .855"-14 NGO, LH Female	CGA-410
410-3	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-410
CGA - 500 FOR MEDICAL MIXTURES:			
500-2	Nut	Brass, .880"-14 NGO, RH Male	CGA-500
15-8	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-500
15-8CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/CV	CGA-500
15-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-500
15-4	Nipple	Brass, 1/4" NPT, 3-1/2" Long	CGA-500
15-11	Nipple	Brass, 1/4" NPT, 4-1/2" Long	CGA-500
15-9	Nipple	Brass, 1/2"-27, 3" Long	CGA-500
15-8M1	Nipple	Recessed for 1/4" OD Tube	CGA-500
15-8M2	Nipple	Recessed for 5/16" OD Tube	CGA-500
15-8M3	Nipple	Recessed for 3/8" OD Tube	CGA-500

**REGULATOR NUTS & NIPPLES,
BRASS & STAINLESS STEEL**

Pressures to 3000 PSIG (20,700 kPa)



82 **83**

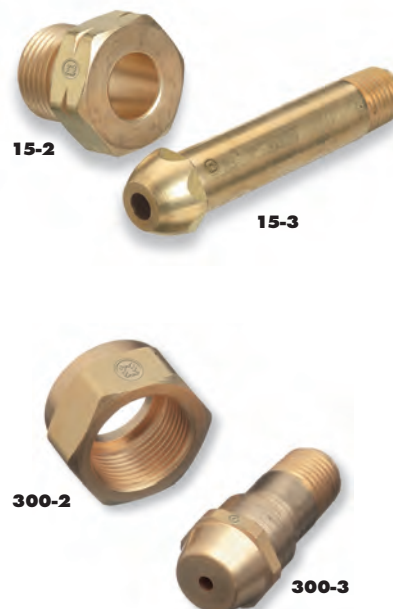


500-2 **15-8**

**REGULATOR INLET
NUTS & NIPPLES**

PART NO.	PART	DESCRIPTION	SERVICE
CGA - 510 FOR POL ACETYLENE:			
15-2	Nut	Brass, .880"-14 NGO, LH Male	CGA-510
15-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-510
15-4	Nipple	Brass, 1/4" NPT, 3-1/2" Long	CGA-510
15-5	Nipple	Brass, 1/2"-27, 4" Long	CGA-510
15-8	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-510
15-8CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/Check	CGA-510
15-9	Nipple	Brass, 1/2"-27, 3" Long	CGA-510
15-11	Nipple	Brass, 1/4" NPT, 4-1/4" Long	CGA-510
15-8M1	Nipple	Recessed for 1/4" OD Tube	CGA-510
15-8M2	Nipple	Recessed for 5/16" OD Tube	CGA-510
15-8M3	Nipple	Recessed for 3/8" OD Tube	CGA-510
615-2	Nut	Brass, Hand-Tight, LH Male	CGA-510
615-2P	Nut	Plastic Grip, Hand-Tight, LH Male	CGA-510
615-3	Nipple	Hand-Tight, 1/4" NPT, 3-1/2" Long, w/O-Ring	CGA-510
615-3T	Nipple	Hand-Tight, 1/4" NPT, 3" Long, w/Soft Tip	CGA-510
615-8M1T	Nipple	Hand-Tight, Recessed for 1/4" Tube w/Soft Tip	CGA-510
615-0	O-Ring	Replacement O-Ring	CGA-510
615-PT	Tip	Soft Tip Replacement	CGA-510
SS-15-2	Nut	St. Steel, .880"-14 NGO, LH Male	CGA-510
SS-15-3	Nipple	St. Steel, 1/4" NPT, 3" Long	CGA-510
SS-15-3CV	Nipple	St. Steel, 1/4" NPT, 3" Long w/CV	CGA-510
SS-15-8M1	Nipple	Recessed for 1/4" OD Tube	CGA-510
CGA - 520 FOR "B" TANK - ACETYLENE:			
300-2	Nut	Brass, .899"-18 NGO, RH Female	CGA-520
300-3	Nipple	Brass, 1/4" NPT, 1-3/4" Long	CGA-520

**REGULATOR NUTS & NIPPLES,
BRASS & STAINLESS STEEL
Pressures to 500 PSIG (3400 kPa)**




PART NO.	PART	DESCRIPTION	SERVICE
CGA - 540 FOR OXYGEN:			
62	Nut	Brass, .908"-14 NGO, RH Female	CGA-540
63-CV	Nipple	Brass, 1/4" NPT, 2" Long w/CV	CGA-540
63	Nipple	Brass, 1/4" NPT, 2-1/6" Long	CGA-540
66	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-540
69	Nipple	Brass, 1/4" NPT, 3" Long	CGA-540
67	Nipple	Brass, 1/2"-27, 2-1/2" Long	CGA-540
63-M1	Nipple	Recessed for 1/4" OD Tube	CGA-540
63-M2	Nipple	Recessed for 5/16" OD Tube	CGA-540
662	Nut	Brass, Hand-Tight, RH Female	CGA-540
662P	Nut	Plastic Grip, Hand-Tight, RH Female	CGA-540
663	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-540
663-KPT	Tip	Soft Tip Replacement	CGA-540
SS-62	Nut	St. Steel, .908"-14 NGO, RH Female	CGA-540
SS-63	Nipple	St. Steel, 1/4" NPT, 2-1/2" Long	CGA-540
CGA - 555 FOR BUTANE, PROPANE (LIQUID WITHDRAWAL):			
72	Nut	Brass, .908"-14 NGO, LH Female	CGA-555
63-CV	Nipple	Brass, 1/4" NPT, 2" Long w/Check V	CGA-555
73	Nipple	Brass, 1/4" NPT, 2-1/16" Long	CGA-555
76	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-555
672	Nut	Brass, Hand-Tight, LH Female	CGA-555
672-P	Nut	Plastic Grip, Hand-Tight, LH Female	CGA-555
673	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-555
673-KPT	Tip	Soft Tip Replacement	CGA-555
CGA - 577 FOR OXYGEN: 4,000 PRESSURE TO 4,000 PSIG			
577-2	Nut	Brass, .965"-14 NGO, RH Female	CGA-577
577-4SF	Nipple	Brass w/Filter, 1/4" NPT, 3" Long	CGA-577

**REGULATOR NUTS & NIPPLES,
BRASS & STAINLESS STEEL
Pressures to 3000 PSIG (20,700 kPa)**



**REGULATOR INLET
NUTS & NIPPLES**

REGULATOR NUTS & NIPPLES, BRASS & STAINLESS STEEL Pressures to 3000 PSIG (20,700 kPa)		PART NO.	PART	DESCRIPTION	SERVICE
CGA - 580 FOR ARGON, HELIUM & NITROGEN:					
	92	Nut	Brass, .960"-14 NGO, RH Male	CGA-580	
	15-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-580	
	15-4	Nipple	Brass, 1/4" NPT, 3-1/2" Long	CGA-580	
	15-8	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-580	
	15-8CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/CV	CGA-580	
	15-11	Nipple	Brass, 1/4" NPT, 4-1/2" Long	CGA-580	
	15-9	Nipple	Brass, 1/2"-27, 3" Long	CGA-580	
	15-5	Nipple	Brass, 1/2"-27, 4" Long	CGA-580	
	15-8M1	Nipple	Recessed For 1/4" OD Tube	CGA-580	
	15-8M2	Nipple	Recessed For 5/16" OD Tube	CGA-580	
	692	Nut	Brass, Hand-Tight, RH Male	CGA-580	
	692P	Nut	Plastic Grip, Hand-Tight, RH Male	CGA-580	
	615-0	O-Ring	Replacement O-Ring	CGA-580	
	615-PT	Tip	Soft Tip Replacement	CGA-580	
	615-3	Nipple	Hand-Tight, 1/4" NPT, 3-1/2" Long, w/O-Ring	CGA-590	
	615-3T	Nipple	Hand-Tight, 1/4" NPT, 3" Long, w/Soft Tip	CGA-590	
	615-8M1T	Nipple	Hand-Tight, 1/4" OD Tube, 2-1/8" Long	CGA-580	
	SS-92	Nut	St. Steel, .960"-14 NGO, RH Male	CGA-580	
SS-15-3	Nipple	St. Steel, 1/4" NPT, 3" Long	CGA-580		
SS-15-3CV	Nipple	St. Steel, 1/4" NPT, 3" Long w/CV	CGA-580		
SS-15-8M1	Nipple	Recessed For 1/4" OD Tube	CGA-580		

PART NO.	PART	DESCRIPTION	SERVICE
CGA - 590 FOR INDUSTRIAL AIR:			
93	Nut	Brass, .960"-14 NGO, LH Male	CGA-590
15-3	Nipple	Brass, 1/4" NPT, 3" Long	CGA-590
15-4	Nipple	Brass, 1/4" NPT, 3-1/2" Long	CGA-590
15-8	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-590
15-8CV	Nipple	Brass, 1/4" NPT, 2-1/2" Long w/CV	CGA-590
15-9	Nipple	Brass, 1/2"-27, 3" Long	CGA-590
15-5	Nipple	Brass, 1/2"-27, 4" Long	CGA-590
15-11	Nipple	Brass, 1/4" NPT, 4-1/2" Long	CGA-590
15-8M1	Nipple	Recessed For 1/4" OD Tube	CGA-590
15-8M2	Nipple	Recessed For 5/16" OD Tube	CGA-590
15-8M3	Nipple	Recessed For 3/8" OD Tube	CGA-590
693	Nut	Brass, Hand-Tight, LH Male	CGA-590
693P	Nut	Plastic Grip, Hand-Tight, LH Male	CGA-590
615-3	Nipple	Hand-Tight, 1/4" NPT, 3-1/2" Long, w/O-Ring	CGA-590
615-3T	Nipple	Hand-Tight, 1/4" NPT, 3" Long, w/Soft Tip	CGA-590
615-0	O-Ring	Replacement O-Ring	CGA-590
615-PT	Tip	Soft Tip Replacement	CGA-590
SS-93	Nut	St. Steel, .960"-14 NGO, LH Male	CGA-590
SS-15-3	Nipple	St. Steel, 1/4" NPT, 3" Long	CGA-590
SS-15-3CV	Nipple	St. Steel, 1/4" NPT, 3" Long w/CV	CGA-590
SS-15-8M1	Nipple	Recessed For 1/4" OD Tube	CGA-590
CGA - 660 FOR REFRIGERANT GASES:			
604	Nut	Brass, 1.035"-14 NGO, RH Female	CGA-660
603	Nipple	Brass, 1/4" NPT, 1-3/4" Long	CGA-660
603-A	Nipple	Brass, 1/4" NPT, 2-1/4" Long	CGA-660
SS-603A	Nipple	St. Steel, 1/4" NPT, 2-1/4" Long	CGA-660
SS-604	Nut	St. Steel, 1.035-14 NGO, RH Female	CGA-660
665	Washer	PTFE	CGA-660

**REGULATOR NUTS & NIPPLES,
BRASS & STAINLESS STEEL**
Pressures to 3000 PSIG (20,700 kPa)



**REGULATOR INLET
NUTS & NIPPLES**


PART NO.	PART	DESCRIPTION	SERVICE
CGA - 670 FOR MIXTURES:			
SS-704	Nut	St. Steel, 1.035"-14 NGO, LH Female	CGA-670
SS-703A	Nipple	St. Steel, 1/4" NPT, 2-1/2" Long	CGA-670
665	Washer	PTFE	CGA-670

**REGULATOR NUTS & NIPPLES,
STAINLESS STEEL**
Pressures to 500 PSIG (3400 kPa)

		PART NO.	PART	DESCRIPTION	SERVICE
		CGA - 677 FOR INERT GASES:			
REGULATOR NUTS & NIPPLES, STAINLESS STEEL Pressures to 7500 PSIG (41,300 kPa)		SS-60-2	Nut	St. Steel, 1.035"-14 NGO, LH Female	CGA-677
		SS-60-3	Nipple	St. Steel, 1/4" NPT, 2-1/2" Long	CGA-677
		SS-60-4	Nipple	St. Steel, 3/8" NPT, 3" Long	CGA-677
		SS-60M1	Nipple	Recessed For 1/4" OD Tube	CGA-677

PART NO.	PART	DESCRIPTION	SERVICE
CGA - 680 FOR INERT GASES:			
680-2	Nut	Brass, 1.040"-14 NGO RH Male	CGA-680
680-3SF	Nipple	Brass w/Filter, 1/4" NPT, 3" Long	CGA-680
680-4SF	Nipple	Brass w/Filter, 1/4" NPT, 3-1/2" Long	CGA-680
6680	Nut	Hand-Tight (Use With 680-4SF Nipple)	CGA-680
CGA - 695 FOR FLAMMABLE GASES:			
695-2	Nut	Brass, 1.040"-14 NGO LH Male	CGA-695
680-3SF	Nipple	Brass w/Filter, 1/4" NPT, 3" Long	CGA-695
680-4SF	Nipple	Brass w/Filter, 1/4" NPT, 3-1/2" Long	CGA-695
6695	Nut	Hand-Tight (Use With 680-4SF Nipple)	CGA-695

REGULATOR NUTS & NIPPLES, BRASS
Pressures from 3000 PSIG (20,700 kPa)
to 5500 PSIG (37,950 kPa)



		PART NO.	PART	DESCRIPTION	SERVICE
		CGA - 701 FOR OXYGEN:			
REGULATOR NUTS & NIPPLES, BRASS Pressures 4000 PSIG (27,600 kPa) to 5500 PSIG (37,950 kPa)		701-2	Nut	Brass, 1.108"-14 NGO, RH Female	CGA-701
		701-4SF	Nipple	Brass w/Filter, 1/4" NPT, 3" Long	CGA-701

PART NO.	PART	DESCRIPTION	SERVICE
CGA - 702 FOR AIR:			
702-2	Nut	Brass, 1.120"-14 NGO, RH Male	CGA-702
680-3SF	Nipple	Brass w/Filter, 1/4" NPT, 3" Long	CGA-702
680-4SF	Nipple	Brass w/Filter, 1/4" NPT, 3-1/2" Long	CGA-702

REGULATOR NUTS & NIPPLES, BRASS
Pressures from 5500 PSIG (37,950 kPa)
to 7500 PSIG (51,750 kPa)

		PART NO.	PART	DESCRIPTION	SERVICE
		CGA - 703 FOR METHANE & HYDROGEN:			
REGULATOR NUTS & NIPPLES, BRASS Pressures from 5500 PSIG (37,950 kPa) to 7500 PSIG (51,750 kPa)		703-2	Nut	Brass, 1.120"-14 NGO, LH Male	CGA-703
		680-3SF	Nipple	Brass w/Filter, 1/4" NPT, 3" Long	CGA-703
		680-4SF	Nipple	Brass w/Filter, 1/4" NPT, 3-1/2" Long	CGA-703

PART NO.	PART	DESCRIPTION	SERVICE
CGA - 705 FOR AMMONIA:			
SS-705	Nut	St. Steel, 1.125"-14 UNS-2A, RH Female	CGA-705
SS-705-3	Nipple	1/4" NPT, 2-1/2" Long	CGA-705
705	Washer	PTFE	CGA-705

**REGULATOR NUTS & NIPPLES,
STAINLESS STEEL**
Pressures to 3000 PSIG (20,700 kPa)

REVERSE FLOW CHECK VALVES

For torch and regulator applications, Western Check Valves guard against danger caused by plugged tips, over-pressurizing or incorrect startup procedures. Proper Check Valve installation helps prevent accidents caused by gases mixing in hoses, regulators or cylinders.

Note: Check valves do not stop flashbacks. See page 36 for more information on Western’s Flashback Arrestors.

Western’s reverse flow Check Valves meet or exceed CGA and OSHA requirements (Pamphlet CGA-E2) and feature:

- Flows for cutting up to 12" of steel
- Machined high quality brass with stainless steel operating spring and valve disc
- Low open/close pressures:
1 - 1-1/2 psig open valve and 10 oz. reverse pressure to positively close valve
- 100% tested
- Made in U.S.A.
- Pressure ratings:
(unless otherwise listed)
Oxygen - To 125 PSIG (860 kPa)
Fuel Gas - To 50 PSIG (345 kPa)
- Check Valve Seat Material:
A-Size Models - fluoroelastomer
B-Size Models - Buna-N™



WESTERN CHECK VALVES

TORCH MODEL, A-SIZE (3/8"-24)

A one-piece, compact unit designed for A-Size applications. Mounts to torch to prevent reverse flow at point of origin.

PART NO.		DESCRIPTION	SERVICE
TORCH MODEL, A-SIZE (3/8"-24)			
CV-A9	Oxygen RH, A-Size Male to A-Size Female Nut, to 125 PSIG (800 kPa)		CGA-020
CV-A10	Fuel Gas LH, A-Size Male to A-Size Female Nut, to 50 PSIG (345 kPa)		CGA-021
WE-63	Torch Style - Set CV-A9 & CV-A10		-

TORCH MODEL, B-SIZE (9/16"-18)

Mounts easily on torch, is readily seen and can be removed for periodic testing. Flows cut up to 12" steel plate or handle heating tips (1200 SCFH at 50 PSIG). Stops reverse flow at point of origin.

PART NO.		DESCRIPTION	SERVICE
TORCH MODEL B-SIZE (9/16"-18)			
CV-7R**	Oxygen RH, B-Size Male to B-Size Female Nut, to 125 PSIG (800kPa)		CGA-022
CV-8L**	Fuel Gas LH, B-Size Male to B-Size Female Nut, to 50 PSIG (345 kPa)		CGA-023
WE-60**	Torch Style - Set CV-7R & CV-8L		-

REGULATOR BUSHING ADAPTOR MODEL, B-SIZE (9/16"-18)

Easily mounts on outlet bushing of any regulator having a B-Size outlet. This model has the same flow capacity as the torch - type (1200 SCFH at 50 PSIG) when installed on a regulator. The Check Valve is to easy to see and is less subject to contamination, abuse and damage.

PART NO.		DESCRIPTION	SERVICE
REGULATOR BUSHING ADAPTOR MODEL B-SIZE (9/16"-18)			
CV-30R**	Oxygen RH, B-Size Female Nut to B-Size Male, to 125 PSIG (800kPa)		CGA-022
CV-31L**	Fuel Gas LH, B-Size F Nut to B-Size Male, to 50 PSIG (345 kPa)		CGA-023
WE-61*	Regulator Adaptor - Set CV-30R & CV-31L		-

* Sold in retail clamshell packaging
** UL Listed

CHECK VALVES

REGULATOR OUTLET BUSHING MODEL, B-SIZE (9/16"-18)

- Replaces outlet bushing in most regulators
- Flow capacity is 1000 SCFH at 50 PSIG
- Regulator type Check Valve is easily seen and less subject to contamination, abuse and damage
- Installed with PTFE thread seal tape on 1/4" NPT tapered threads

1/4" NPT INLINE CHECK VALVES, TO 200 PSIG (1400 kPa)

- These Check Valves are appropriate for applications that require higher operating pressures, up to 200 PSIG
- Compact design and low open/close pressures: 3 oz. to open valve and 10 oz. of reverse pressure for positive valve closing
- Flow characteristics match those in the Flow Specification Chart (below) for B-Size Check Valves

INLINE NPT CHECK VALVES, HEAVY DUTY

- Heavy Duty Check Valves are designed for high performance in demanding applications
- All styles feature low/open/close pressures: 3 oz. to open the valve and 10 oz. of reverse pressure for positive valve closing
- Check Valve seat material is durable Ethylene Propylene (EPDM)
- For use in high pressure pigtail assemblies

CGA CYLINDER ADAPTORS WITH CHECK VALVES

- Cylinder Adaptors (see page 53) may be ordered with Check Valves installed in the cylinder nipple
- Adaptors are available from stock for compatible gases only
- To order Cylinder Adaptors with Check Valves, add - CV to the Adaptor part no. For example, Adaptor 15 becomes 15-CV with built-in check valve

CHECK VALVE FLOW SPECIFICATIONS CHARTS

Flow curves presented here are based on air at 70° F. To convert flows of other gases, multiply by the appropriate conversion factor listed on instruction sheets included with all check valves.

PART NO.	DESCRIPTION	SERVICE
REGULATOR OUTLET BUSHING MODEL B-SIZE (9/16"-18)		
CV-32R**	Oxygen RH, 1/4" NPT Male to B-Size Male, to 125 PSIG (800 kPa)	CGA-022
CV-33L**	Fuel Gas LH, 1/4" NPT Male to B-Size Male, to 50 PSIG (345 kPa)	CGA-023
WE-62**	Regulator Outlet Set Includes CV-32R & CV-33L	B-Size

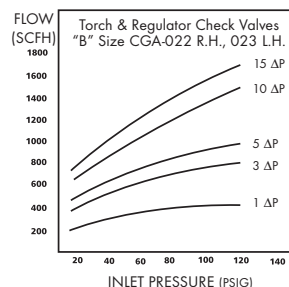
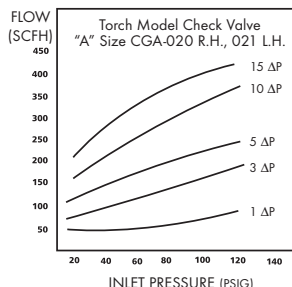
**UL Listed

PART NO.	DESCRIPTION
1/4" NPT INLINE CHECK VALVES, TO 200 PSI (1400 kPa)	
CV-4	1/4" NPT Male to 1/4" NPT Male
CV-5	1/4" NPT Male to 1/4" NPT Female (Flow Male to Female)
CV-6	1/4" NPT Female to 1/4" NPT Male (Flow Female to Male)



PART NO.	DESCRIPTION	MATERIAL	MAX PSIG
INLINE NPT CHECK VALVES, HEAVY DUTY			
CV-4M	1/4" NPT Male Inlet to Male Outlet	Brass	3000
CV-6M	3/8" NPT Male Inlet to Male Outlet	Brass	3000
CVF-4M	1/4" NPT Female Inlet to Male Outlet	Brass	3000
CVM-4F	1/4" NPT Male Inlet to Female Outlet	Brass	3000
CV-4MSS	1/4" NPT Male Inlet to Male Outlet	St. Steel	6000
CVF-4MSS	1/4" NPT Female Inlet to Male Outlet	St. Steel	6000
CVM-4FSS	1/4" NPT Male Inlet to Female Outlet	St. Steel	6000

PART NO.	DESCRIPTION	SERVICE
CHECK VALVE ADAPTORS, SAME CGA BOTH ENDS		
CV-346	Air RH, Female	CGA-346
CV-540	Oxygen RH, Female	CGA-540



ΔP - Pressure Drop (psi)

GAS	CONVERSION FACTOR
Acetylene	1.05
Butane	.89
Hydrogen	3.79
Mapp Gas	.82
Methane	1.34
Oxygen	.95
Propane	.81

QUICK-CONNECTS FOR WELDING EQUIPMENT

Western's Quick Connects provide fast, reliable and positive connections and quick disconnections for torches, hoses and regulators. All models are color-coded for gas service for added safety (oxygen/green, fuel gas/red, inert gas/blue). Oxy/fuel gas models include integral reverse flow Check Valves. Quick Connects fit all B-size welding and cutting equipment.

FEATURES & SPECIFICATIONS:

- Brass construction provides long service life—cycle tested over 10,000 operations indicating a service life of 10 to 12 years of comparable use
- Non-interchangeable Oxygen and Fuel Gas connectors prevent accidental gas mixing
- Instant closure on reverse flow Check Valves with total shutoff at only 10 oz. of back pressure
- Exceed CGA flow specifications—1100 SCFH flow at 125 PSIG inlet pressure and 800 SCFH flow at 125 PSIG inlet pressure when 2 additional check valves are used in conjunction with the Quick Connects
- Spring loaded locking mechanism responds to fingertip action and achieves a gas-tight connection
- UL Listed
- For inert gas models, demand valve on supply side creates a positive seal when fitting is not connected
- Double seal socket connection on second seal provides added safety protection
- Installation and operating instructions included
- 200 psig maximum operating pressure



QUICK CONNECTS—SETS - B SIZE (9/16" - 18)

PART NO.	DESCRIPTION	COMPONENTS
QDB10*	Torch-to-Hose Set w/Check Valves	QDB11 - Fuel Gas QDB12 - Oxygen
QDB20*	Hose-to-Hose Set w/Check Valves	QDB21 - Fuel Gas QDB22 - Oxyge
QDB30*	Regulator-to-Hose w/Check Valves	QDB31 - Fuel Gas QDB32 - Oxygen

QUICK CONNECTS—INDIVIDUAL UNITS

PART NO.	DESCRIPTION	COMPONENTS
Torch-to-Hose		
QDB11*	Fuel Gas w/Check Valve (9/16" - 18 LH)	QDB200 - Male Plug QDB201 - Female Socket
QDB12*	Oxygen w/Check Valve (9/16" - 18 RH)	QDB100 - Male Plug QDB101 - Female Socket
Hose-to-Hose		
QDB21*	Fuel Gas w/Check Valve (9/16" - 18 LH)	QDB205 - Male Plug QDB201 - Female Socket
QDB22*	Oxygen w/Check Valve (9/16" - 18 RH)	QDB105 - Male Plug QDB101 - Female Socket
Regulator-to-Hose		
QDB31*	Fuel Gas w/Check Valve (9/16" - 18 LH)	QDB205 - Male Plug QDB206 - Female Socket
QDB32*	Oxygen w/Check Valve (9/16" - 18 RH)	QDB105 - Male Plug QDB106 - Female Socket
QDB33*	Inert Gas - Regulator-to-Hose (5/8" - 18 RH)	QDB300 - Male Plug QDB301 - Female Socket
QDB34*	Inert Gas - Hose-to-Machine (5/8" - 18 RH)	QDB302 - Male Plug QDB303 - Female Socket

* Sold in retail clamshell packaging

KwikLok – OSHA Compliant** Quick Connects with Sleeve Lock Feature

QUICK CONNECTS—SETS - B SIZE (9/16" - 18)

PART NO.	DESCRIPTION	COMPONENTS
QDB40*	Torch-to-Hose Set w/Check Valves	QDB401 - Fuel Gas QDB402 - Oxygen
QDB50*	Hose-to-Hose Set w/Check Valves	QDB501 - Fuel Gas QDB502 - Oxyge
QDB60*	Regulator-to-Hose w/Check Valves	QDB601 - Fuel Gas QDB602 - Oxygen

QUICK CONNECTS—INDIVIDUAL UNITS

PART NO.	DESCRIPTION	COMPONENTS
Torch-to-Hose		
QDB401*	Fuel Gas w/Check Valve (9/16" - 18 LH)	QDB200 - Male Plug QDB551 - Female Socket
QDB402*	Oxygen w/Check Valve (9/16" - 18 RH)	QDB100 - Male Plug QDB550 - Female Socket
Hose-to-Hose		
QDB501*	Fuel Gas w/Check Valve (9/16" - 18 LH)	QDB205 - Male Plug QDB551 - Female Socket
QDB502*	Oxygen w/Check Valve (9/16" - 18 RH)	QDB105 - Male Plug QDB550 - Female Socket
Regulator-to-Hose		
QDB601*	Fuel Gas w/Check Valve (9/16" - 18 LH)	QDB205 - Male Plug QDB661 - Female Socket
QDB602*	Oxygen w/Check Valve (9/16" - 18 RH)	QDB105 - Male Plug QDB660 - Female Socket
QDB73*	Inert Gas - Regulator-to-Hose (5/8" - 18 RH)	QDB300 - Male Plug QDB730 - Female Socket
QDB74*	Inert Gas - Hose-to-Machine (5/8" - 18 RH)	QDB302 - Male Plug QDB740 - Female Socket

* Sold in retail clamshell packaging

** OSHA 29CFR 1915.55(f)(5), 1917.152 (d)(3)(iv), and 1926.350(f)(5)

WESTERN FLASHBACK ARRESTORS—OXY/FUEL GAS

Welders rely on Western's advanced Flashback Arrestors to help prevent serious incidents caused by reverse gas flows or flashbacks. Western's Flashback Arrestors are designed to stop flashbacks by preventing ignition of mixed gases and to protect equipment such as hoses, regulators and cylinders.

FEATURES AND SPECIFICATIONS

- Color-coded for gas service to provide added safety—oxygen (green), fuel gas (red)
- Internal check valves designed to prevent reverse flow and accidental mixing of oxygen and fuel gases
- Maximum operating pressures are 15 PSIG for acetylene, 22 PSIG for other fuel gases, and 125 PSIG for oxygen
- Rated capacity of 40 SCFH with a 5 PSIG pressure drop
- Torch and Regulator models provide downstream and upstream protection
- 10" maximum cutting capacity
- Reusable; manual resetting not required
- UL listed and 100% tested
- Complete installation, testing and operating instructions included
- Safe-Mate models feature quick connect design for quick and easy installation and disconnection
- 316 stainless steel flame trap

PART NO.	DESCRIPTION	COMPONENTS
FLASHBACK ARRESTOR SETS		
FA-10*	Flashback Arrestor Set, Torch Style	FA-100P, FA-200P
FA-30*	Flashback Arrestor Set, Regulator Adaptor Style	FA-130P, FA-230P
FLASHBACK ARRESTOR COMPONENTS		
FA-100P	Flashback Arrestor, Oxygen, Torch Style, B Size	
FA-200P	Flashback Arrestor, Fuel Gas, Torch Style, B Size	
FA-130P	Flashback Arrestor, Oxygen, Regulator Adaptor Style, B Size	
FA-230P	Flashback Arrestor, Fuel Gas, Regulator Adaptor Style, B Size	

FLASHBACK ARRESTORS
B-SIZE, 9/16" - 18

*Sold in retail clamshell packaging

PART NO.	DESCRIPTION	
FLASHBACK ARRESTOR COMPONENTS		
	FR50-OX	Flashback Arrestor, Oxygen, Regulator Style, B Size
	FR50-F	Flashback Arrestor, Fuel Gas, Regulator Style, B Size
	FA-60	Flashback Arrestor, Oxygen, Torch Style, C Size
	FA-61	Flashback Arrestor, Fuel Gas, Torch Style, C Size
	FA-70	Flashback Arrestor, Oxygen, Regulator Style, Resettable, B Size
	FA-71	Flashback Arrestor, Fuel Gas, Regulator Style, Resettable, B Size
	FA-80	Flashback Arrestor, Oxygen, Torch Style, A Size
	FA-81	Flashback Arrestor, Fuel Gas, Torch Style, A Size
	FA-90	Flashback Arrestor, Oxygen, Regulator Style, A Size
	FA-91	Flashback Arrestor, Fuel Gas, Regulator Style, A Size

SAFEMATES—QUICK CONNECT SETS WITH BUILT-IN FLASHBACK ARRESTORS

PART NO.	DESCRIPTION
QDF10	Torch-to-Hose Set w/Check Valves (Oxy/Fuel Gas)
QDF30	Regulator-to-Hose (Oxy/Fuel Gas)

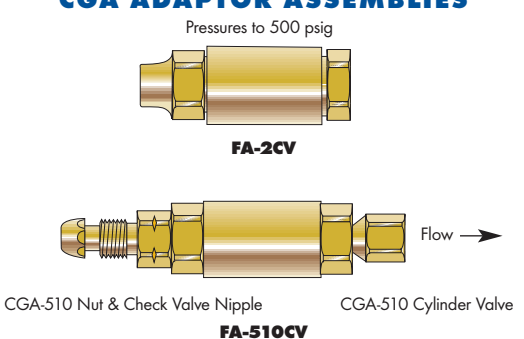
WESTERN FLASHBACK ARRESTORS—BODIES & CGA ASSEMBLIES

Flashback Arrestor Bodies and Assemblies are available for special applications. Flashback Arrestor Bodies consist of 1/4" F and 1/4" M NPT connections. Assemblies for Adaptors and Pigtails consist of standard CGA connections on both the inlet and outlet sides of a Flashback Arrestor Body. Western also offers assemblies with ball seat check

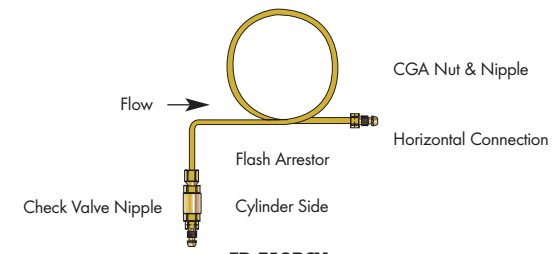
valves for the inlet side of the Flashback Arrestor Body.

Flashback Arrestor Bodies extinguish flashes or flames before they reach the cylinder. Flashback Arrestor Assemblies are designed for installation on acetylene cylinders to prevent flashbacks into the cylinder.

These Flashback Arrestor Bodies/Assemblies can be used in any lead not exceeding 3/8" pipe size which connects an acetylene cylinder to a regulator, manifold or other equipment. Rated flow capacity is 40 SCFH with a 5 PSIG pressure drop. These units are factory assembled and 100% tested for service.

FLASHBACK ARRESTORS—BODIES CGA ADAPTOR ASSEMBLIES 	PART NO.	DESCRIPTION
	ARRESTOR BODIES	
	*FA-2	1/4" NPT Female x 1/4" NPT Female
	*FA-3	1/4" NPT Female x 1/4" NPT Male
FLASHBACK ARRESTOR W/ADAPTOR ASSEMBLIES		
	*FA-300	CGA-300 Commercial Acetylene
	*FA-300CV	CGA-300 Commercial Acetylene w/Inlet Check Valve
	*FA-510	CGA-510 POL Acetylene
	*FA-510CV	CGA-510 POL Acetylene w/Inlet Check Valve

*U.L. listed

PART NO.	W/CV	DESCRIPTION	SERVICE	MANIFOLD PIGTAIL WITH FLASH ARRESTOR 
FP-510	FP-510CV	Horizontal, 24" length	CGA 510, POL Acetylene	
FP-510P	FP-510PCV	Horizontal, 18" length	CGA 510, POL Acetylene	

Please Note: Using Flashback Arrestors w/Check Valves as a precaution to avoid potentially dangerous situations is not a substitute for careful handling or strict adherence to safety rules and procedures for handling high pressure gases. Users should not tamper with the internal components of a Flashback Arrestor. Flashback Arrestors cannot be cleaned or refilled after any flash in the system. They must be replaced if the pressure drop through the Arrestor reaches 10 PSIG or more at a rated capacity of 40 SCFH.

HOTSPOTTER

This all purpose propane flame tool operates off of the pressure of a standard propane tank-no regulator required. Appropriate for a wide variety of all-season maintenance/repair applications at commercial offices, factories, institutions, warehouses, parks, residential properties, farms and parking lots.

Features and Specifications:

- Delivers up to 550,000 BTU
- No smoke, no fumes
- Burn weeds, repair asphalt, seal tar, peel paint, remove road markings, melt ice, and thaw pipes
- Durable 10 ft. neoprene hose
- Accurate brass flow control shut-off valve
- Brass propane tank adaptor
- Spark ignitor
- Durable cast iron and steel nozzle (WB-101)
- Welded tube nozzle (WB-100 & WB-102)
- 31" Heavy-Duty Handle
- Meets NFPA 51 specifications
- Packaged in retail, self-service packaging
- Excess Flow Valve
- One year warranty



WB-101-Heavy Duty



WB-102-Standard Duty



WB-100-Professional Series



WB3-Cylinder Cart
Propane Cylinder and Torch not included

PART NO.	DESCRIPTION
WB-100	Professional Series Hotspotter
WB-101	Heavy Duty Hotspotter
WB-102	Standard Duty Hotspotter
WB3	Propane Cylinder Cart with Hotspotter Holder

REPLACEMENT PARTS	DESCRIPTION
WB-100-13	Handle Assembly (WB-101)
WB-100-12	Nozzle Assembly (WB-101)
208-FPS	Shut-off Valve (WB-101)
WB-100-19	Handle Assembly (WB-102)
WB-100-20	Nozzle Assembly (WB-102)
208-FS	Shut-off Valve (WB-102)
WB-100-25	Hose Assembly (WB-101/102)


	2" DIA. X 1/4" NPT		2 1/2" DIA. x 1/4" NPT	
	PART NO.	GAUGE TYPE	PART NO.	GAUGE TYPE
<p align="center">REGULATOR GAUGES & GAUGE CRYSTALS</p> <p>G-25-4000W G-2-30RLW</p>	G-2-30RLW	30 PSIG Red Line	G-25-30RLW	30 PSIG Red Line
	G-2-30W	30 PSIG	G-25-30W	30 PSIG
	G-2-60W	60 PSIG	G-25-60W	60 PSIG
	G-2-100W	100 PSIG	G-25-100W	100 PSIG
	G-2-200W	200 PSIG	G-25-200W	200 PSIG
	G-2-400W	400 PSIG	G-25-400W	400 PSIG
	G-2-600W	600 PSIG	G-25-600W	600 PSIG
	G-2-1000W	1000 PSIG	G-25-2000W	1000 PSIG
	G-2-4000W	4000 PSIG	G-25-4000W	4000 PSIG
	G-2-CW	Lexan Crystal	G-25-CW	Lexan Crystal
	Installation Requires PTFE Tape or Oxygen Safe Compound To Guard Against Leakage			

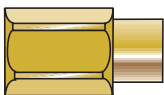
PART NO.	DESCRIPTION	PSIG SCALE	SERVICE
G-204	"MC" Acetylene Tank	400	CGA-200
G-304	Commercial Acetylene	400	CGA-300
G-304H	Commercial Acetylene with Hand-Tight Nut	400	CGA-300
G-324	Carbon Dioxide	3000	CGA-320
G-324H	Carbon Dioxide with Hand-Tight Nut	3000	CGA-320
G-326	Nitrous Oxide	3000	CGA-326
G-346	Air	4000	CGA-346
G-346H	Air,with Hand-Tight Nut	4000	CGA-346
G-354	Hydrogen	3000	CGA-350
G-354H	Hydrogen with Hand-Tight Nut	3000	CGA-350
G-514	POL Acetylene, Straight	400	CGA-510
G-514A	POL Acetylene, 90°	400	CGA-510
G-514AH	POL Acetylene, 90° with Hand-Tight Nut	400	CGA-510
G-514H	POL Acetylene, with Hand-Tight Nut	400	CGA-510
G-524	"B" Tank Acetylene	400	CGA-520
G-544	Oxygen	3000	CGA-540
G-544A	Oxygen	4000	CGA-540
G-544H	Oxygen, with Hand-Tight Nut	3000	CGA-540
G-544AH	Oxygen, with Hand-Tight Nut	4000	CGA-540
G-584	Nitrogen, Argon, Helium	4000	CGA-580
G-584H	Nitrogen, Argon, Helium, Hand-Tight Nut	4000	CGA-580
WG-584H	Ni, Ar, He, Hand-Tight Nut with Bleed Valve	4000	CGA-580
G-594	Industrial Air	4000	CGA-590


**CYLINDER PRESSURE TESTING GAUGES
2" BRASS**

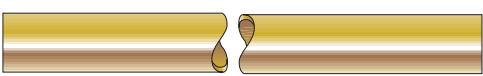
G-584H

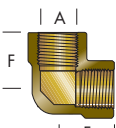
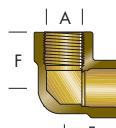
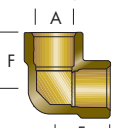
**MANIFOLD
ACCESSORIES**

PART NO.	OD & WALL	LENGTH	STYLE	MATERIAL	PSI	<p align="center">MANIFOLD TUBING</p>  <p align="right">COIL</p>
CT-40	1/4" x .065	50 Feet	Coil	Copper, Annealed	3000	
CT-50	5/16" x .065	50 Feet	Coil	Copper, Annealed	2500	
CT-60	3/8" x .065	50 Feet	Coil	Copper, Annealed	2000	

<p align="center">MANIFOLD TUBING ADAPTOR BUSHINGS</p>  <p align="center">BT-2M2</p>	PART NO.	DESCRIPTION	PSI	MATERIAL
	Fits PH-1 Pigtail Handle			
	BT-2M1	1/4" NPTF x 1/4" OD Tubing Recess	3000	Brass
	BT-2M2	1/4" NPTF x 5/16" OD Tubing Recess	3000	Brass
	BT-2M3	1/4" NPTF x 3/8" OD Tubing Recess	3000	Brass
	BT-2M1-SS	1/4" NPTF x 1/4" OD Tubing Recess	6000	St. Steel

PART NO.	LENGTH	SIZE	PART NO.	LENGTH	SIZE	<p align="center">MANIFOLD PIPE & PIPE FITTINGS, BRASS</p> <p align="center">BRASS ALLOY 360,</p> <p align="center">Pressures to 3000 PSIG (20,700 kPa)</p>  <p align="center">PIPE NIPPLE LENGTH</p>
<p align="center">*(1/2" PIPE WALL THICKNESS - .196") *(3/4" PIPE WALL THICKNESS - .230")</p> <p align="center">THREADED PIPE NIPPLES</p>						
WHF-3-1	1-1/2"	1/2" NPT	WHF-3-9	1-1/2"	3/4" NPT	
WHF-3-2	2"	1/2" NPT	WHF-3-10	2"	3/4" NPT	
WHF-3-3	4"	1/2" NPT	WHF-3-11	4"	3/4" NPT	
WHF-3-19	6"	1/2" NPT	WHF-3-21	6"	3/4" NPT	
WHF-3-5	8-1/2"	1/2" NPT	WHF-3-13	8-3/8"	3/4" NPT	
WHF-3-7	11-1/2"	1/2" NPT	WHF-3-16	11-3/8"	3/4" NPT	

<p align="center">NOMINAL PIPE LENGTHS</p> <p align="center">BRASS ALLOY 360,</p> <p align="center">PRESSURES TO 3000 PSIG (20,700 kPa)</p>  <p align="center">SHORT PIPE LENGTH</p>	PART NO.	LENGTH	SIZE	PART NO.	LENGTH	SIZE
	CLEANED FOR OXYGEN					
	WHF-3-23	2"	1/2" Nom			
	WHF-3-4	4"	1/2" Nom			
	WHF-3-20	6"	1/2" Nom			
	WHF-3-6	8-1/2"	1/2" Nom			
NOT CLEANED FOR OXYGEN						
	WHF-3-120	6 Feet	1/2" Nom	WHF-3-122	6 Feet	3/4" Nom
	WHF-3-17	12 Feet	1/2" Nom	WHF-3-18	12 Feet	3/4" Nom
Note: 12 Foot Lengths Must Ship Via Common Carrier						

PART NO.	REF A	REF B	REF F	ELBOWS	<p align="center">Pipe Elbows, Female</p> <p align="center">PRESSURES TO 3000 PSIG (20,700 kPa)</p>  <p align="center">FIGURE 1</p>  <p align="center">FIGURE 2</p>  <p align="center">FIGURE 3</p>
WHF-4-8	1/2" NPT	1/2" NPT	1-1/4"	Figure 1	
WHF-4-11	3/4" NPT	3/4" NPT	1-3/8"	Figure 1	
WHF-4-15	1/2" NPT	.843"-.847"	1-1/4"	Figure 2	
WHF-4-19	3/4" NPT	1.053"-1.057"	1-3/8"	Figure 2	
WHF-4-2	.843"-.847"	.843"-.847"	1-1/4"	Figure 3	
<p>.843"-.847" = 1/2" Pipe Slip * 1.053"-1.057" = 3/4" Pipe Slip</p>					

Pipe Crosses, Female		PART NO.	REF A	REF B	REF C & D	REF E	CROSSES
<p>Pressures to 3000 PSIG (20,700 kPa)</p> <p>FIGURE 1 FIGURE 2 (SLIP THROUGH) FIGURE 3</p>		WHF-4-9	1/2" NPT	1/2" NPT	1/2" NPT	2-1/2"	Figure 1
		WHF-4-12	3/4" NPT	3/4" NPT	3/4" NPT	2-3/4"	Figure 1
		WHF-4-16	.843"-.847"	.843"-.847"	1/2" NPT	2-1/2"	Figure 2
		WHF-4-23	.843"-.847"	1/2" NPT	1/2" NPT	2-1/2"	Figure 3
.843"-.847" = 1/2" Pipe Slip							

PART NO.	REF A	REF B	REF C	REF E	TEES	Pipe Tees, Female	
WHF-4-7	1/2" NPT	1/2" NPT	1/2" NPT	2-1/2"	Figure 1	<p>Pressures to 3000 PSI (20,700 kPa)</p> <p>FIGURE 1 FIGURE 2 (SLIP THROUGH)</p> <p>FIGURE 3 FIGURE 4 FIGURE 5 (SLIP THROUGH)</p>	
WHF-4-10	3/4" NPT	3/4" NPT	3/4" NPT	2-3/4"	Figure 1		
WHF-4-14	.843"-.847"	.843"-.847"	1/2" NPT	2-1/2"	Figure 2		
WHF-4-18	1.053"-1.057"	1.053"-1.057"	3/4" NPT	2-3/4"	Figure 2		
WHF-4-13	1/2" NPT	1/2" NPT	.843"-.847"	2-1/2"	Figure 3		
WHF-4-21	.843"-.847"	1/2" NPT	1/2" NPT	2-3/4"	Figure 4		
WHF-4-22	1.053"-1.057"	3/4" NPT	3/4" NPT	2-1/2"	Figure 4		
WHF-4-1	1.053"-1.057"	1.053"-1.057"	1.053"-1.057"	2-3/4"	Figure 5		
.843"-.847" = 1/2" Pipe Slip * 1.053"-1.057" = 3/4" Pipe Slip							

FEMALE NPT OUTLET ADAPTORS FOR MANIFOLD PIPELINE, BRASS & STAINLESS STEEL	PART NO. GAS SERVICE		DESCRIPTION	MATERIAL
	CGA VALVE OUTLETS TO FEMALE PIPE THREADS			
<p>500 PSIG (3400 kPa) 3000 PSIG (20,700 kPa) 6000 PSIG (41,300 kPa)</p> <p>415-1 416-1</p>	15-1	CGA-300	Commercial Acetylene, to 500 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	Brass
	CO-2-1	CGA-320	Carbon Dioxide, to 3000 PSIG: RH Male .825"-14 NGO, to 1/4" NPT Female	Brass
	1321-1	CGA-326	Nitrous Oxide, to 3000 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	Brass
	1341-1	CGA-346	Air, to 3000 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	Brass
	SS-1341-1	CGA-346	Air, to 3000 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	St. Steel
	347-1	CGA-347	Air, to 5500 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	Brass
	SS-347-1	CGA-347	Air, from 3,001 to 5500 PSIG: RH Male .825"-14 NGO to 1/4" NPT Female	St. Steel
	800-1	CGA-350	Hydrogen, Natural Gas, to 3000 PSIG: LH Male .825"-14 NGO to 1/4" NPT Female	Brass
	500-1	CGA-500	Medical Mixtures, to 3000 PSIG: RH Female .885"-14 NGO to 1/4" NPT Female	Brass
	16-1	CGA-510	POL Acetylene, Propane, to 500 PSIG: LH Female .885"-14 NGO to 1/4" NPT Female	Brass
	300-1	CGA-510	POL Acetylene, Propane, to 500 PSIG: 90° LH Female Nut .885"-14 NGO to 1/4" NPT Female	Brass
	415-1	CGA-540	Oxygen, to 3000 PSIG: RH Male .903"-14 NGO to 1/4" NPT Female	Brass
	SS-415-1	CGA-540	Oxygen, to 3000 PSIG: RH Male .903"-14 NGO to 1/4" NPT Female	St. Steel
	414-1	CGA-555	Butane, Propane Liquid, 3000 PSIG: LH Male .903"-14 NGO to 1/4" NPT Female	Brass
	416-1	CGA-580	Argon, Helium, Nitrogen to 3000 PSIG: RH Female .965"-14 NGO to 1/4" NPT Female	Brass
	417-1	CGA-590	Industrial Air, to 3000 PSIG: LH Female .965"-14 NGO to 1/4" NPT Female	Brass
	660-1	CGA-660	Refrigerant Gases, to 3000 PSIG: RH Male 1.030"-14 NGO to 1/4" NPT Female	Brass
	SS-660-1	CGA-660	Refrigerant Gases, to 3000 PSIG: RH Male 1.030"-14 NGO to 1/4" NPT Female	St. Steel
	SS-677-1	CGA-677	Argon, Helium, Nitrogen from 5,501 to 7500 PSIG: LH Male 1.030"-14 NGO to 1/4" NPT Female	St. Steel

PART NO.	GAS SERVICE	DESCRIPTION	MATERIAL
Medical Breathing Mix, to 3000 PSIG:			
WMS-1-64	CGA-280	.745"-14 NGO, RH Male, Check Valve Outlet to 1/2" NPT	Brass
Commercial Acetylene, to 500 PSIG:			
B-10	CGA-300	.825"-14 NGO, RH Male to 1/4" NPT	Brass
B-12	CGA-300	.825"-14 NGO, RH Male to 1/2" NPT	Brass
B-13	CGA-300	.825"-14 NGO, RH Male to 3/4" NPT	Brass
Carbon Dioxide, to 3000 PSIG:			
B-20	CGA-320	.825"-14 NGO, RH Male to 1/4" NPT	Brass
B-21	CGA-320	.825"-14 NGO, RH Male to 3/8" NPT	Brass
B-22	CGA-320	.825"-14 NGO, RH Male to 1/2" NPT	Brass
B-23	CGA-320	.825"-14 NGO, RH Male to 3/4" NPT	Brass
Nitrous Oxide, to 3000 PSIG:			
B-1320	CGA-326	.825"-14 NGO, RH Male to 1/4" NPT	Brass
B-1321	CGA-326	.825"-14 NGO, RH Male to 3/8" NPT	Brass
B-1322	CGA-326	.825"-14 NGO, RH Male to 1/2" NPT	Brass
WMS-1-59	CGA-326	Check Valve Outlet to 1/2" NPT	Brass
Air, to 3000 PSIG:			
B-1340	CGA-346	.825"-14 NGO, RH Male to 1/4" NPT	Brass
B-1342	CGA-346	.825"-14 NGO, RH Male to 1/2" NPT	Brass
WMS-1-62	CGA-346	Check Valve Outlet to 1/2" NPT	Brass
B-1340SS	CGA-346	.825"-14 NGO, RH Male to 1/4" NPT	St. Steel
Air, to 5500 PSIG:			
B-348	CGA-347	.825"-14 NGO, RH Male to 1/2" NPT	Brass
Hydrogen, Natural Gas, to 3000 PSIG:			
B-30	CGA-350	.825"-14 NGO, LH Male to 1/4" NPT	Brass
B-32	CGA-350	.825"-14 NGO, LH Male to 1/2" NPT	Brass
B-33	CGA-350	.880"-14 NGO, LH Male to 3/4" NPT	Brass
Acetylene, Butane, Propane, to 500 PSIG			
B-40	CGA-510	.885"-14 NGO, LH Female to 1/4" NPT	Brass
B-42	CGA-510	.885"-14 NGO, LH Female to 1/2" NPT	Brass
B-43	CGA-510	.885"-14 NGO, LH Female to 3/4" NPT	Brass
Oxygen, to 3000 PSIG:			
B-50	CGA-540	.903"-14 NGO, RH Male to 1/4" NPT	Brass
B-51	CGA-540	.903"-14 NGO, RH Male to 3/8" NPT	Brass
B-52	CGA-540	.903"-14 NGO, RH Male to 1/2" NPT	Brass
WMS-1-53	CGA-540	Check Valve Outlet to 1/2" NPT	Brass
B-53	CGA-540	.903"-14 NGO, RH Male to 3/4" NPT	Brass
B-50SS	CGA-540	.903"-14 NGO, RH Male to 1/4" NPT	St. Steel
Butane, Propane (Liq/W), to 3000 PSIG:			
B-60	CGA-555	.903"-14 NGO, LH Male to 1/4" NPT	Brass
B-62	CGA-555	.903"-14 NGO, LH Male to 1/2" NPT	Brass

**MALE NPT OUTLET ADAPTORS
FOR MANIFOLD PIPELINE,
BRASS & STAINLESS STEEL**

**500 PSIG (3400 kPa)
3000 PSIG (20,700 kPa)
6000 PSIG (41,300 kPa)**



B-20



WMS-1-53

CONTINUED ON NEXT PAGE

**MALE NPT OUTLET ADAPTORS
FOR MANIFOLD PIPELINE,
BRASS & STAINLESS STEEL**

**500 PSIG (3400 kPa)
3000 PSIG (20,700 kPa)
6000 PSIG (41,300 kPa)**

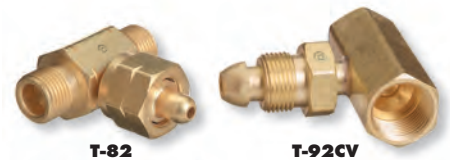


B-71

PART NO.		GAS SERVICE	DESCRIPTION	MATERIAL
Oxygen, 3000 PSIG to 4000 PSIG:				
B-578	CGA-577		.960"-14 NGO, RH Male to 1/2" NPT	Brass
Argon, Helium, Nitrogen, Etc, to 3000 PSIG:				
B-70	CGA-580		.965"-14 NGO, RH Female to 1/4" NPT	Brass
B-70SS	CGA-580		.965"-14 NGO, RH Female to 1/4" NPT	St. Steel
B-71	CGA-580		.965"-14 NGO, RH Female to 3/8" NPT	Brass
B-72	CGA-580		.965"-14 NGO, RH Female to 1/2" NPT	Brass
WMS-1-54	CGA-580		Check Valve Outlet to 1/2" NPT	Brass
B-73	CGA-580		.965"-14 NGO, RH Female to 3/4" NPT	Brass
Industrial Air, to 3000 PSIG:				
B-80	CGA-590		.965"-14 NGO, LH Female to 1/4" NPT	Brass
B-82	CGA-590		.965"-14 NGO, LH Female to 1/2" NPT	Brass
B-83	CGA-590		.965"-14 NGO, LH Female to 3/4" NPT	Brass
Refrigerant Gases, to 3000 PSIG:				
B-660-SS	CGA-660		1.030"-14 NGO, RH Male to 1/4" NPT	St. Steel
Air, Argon, Helium, Etc, to 6000 PSIG:				
B-677-SS	CGA-677		1.030"-14 NGO, LH Male to 1/4" NPT	St. Steel
B-678-SS	CGA-677		1.030"-14 NGO, LH Male to 1/2" NPT	St. Steel
B-679-SS	CGA-677		1.030"-14 NGO, LH Male to 3/4" NPT	St. Steel
Inert Gases, to 5500 PSIG:				
B-682	CGA-680		1.045"-14 NGO, RH Female to 1/2" NPT	Brass

PART NO.		W/CV	GAS SERVICE	DESCRIPTION	MATERIAL
To 500 PSIG (3400 kPa)					
T-16	T-16CV	CGA-300		Commercial Acet., RH Female	Brass
T-15	T-15CV	CGA-510		POL Acetylene, LH Male	Brass
FT-510	FT-510CV	CGA-510		POL Acet., LH Male w/ Flash Arrestor	Brass
To 3000 PSIG (20,700 kPa)					
T-296	-	CGA-296		Industrial Mix /Oxy., RH Male	Brass
T-CO-2	-	CGA-320		Carbon Dioxide, RH Female	Brass
T-326	T-326CV	CGA-326		Nitrous Oxide, RH Female	Brass
T-346	T-346CV	CGA-346		Air, RH Female	Brass
T-82	T-82CV	CGA-350		Hydrogen, LH Female	Brass
T-62	T-62CV	CGA-540		Oxygen, RH Female	Brass
T-62SS	-	CGA-540		Oxygen, RH Female	St. Steel
T-72	T-72CV	CGA-555		Propane (Liquid/Water) LH Female	Brass
T-92	T-92CV	CGA-580		Nitrogen, Argon, Helium, RH Male	Brass
T-93	T-93CV	CGA-590		Industrial Air, LH Male	Brass
To 5500 PSIG (37,950 kPa)					
T-347	-	CGA-347		Air, RH Female	Brass
T-347SS	-	CGA-347		Air, RH Female	St. Steel
T-680	-	CGA-680		Inert Gases, RH Male	Brass

**MANIFOLD COUPLER TEES,
BRASS & STAINLESS STEEL
WITH & WITHOUT CHECK VALVES**




T-82


T-92CV

PART NO.		GAS SERVICE	DESCRIPTION	GAS
PRESSURES TO 3000 PSIG (20,700 kPa)				
T3-540	CGA-540		RH Male	Oxygen
T3-580	CGA-580		RH Female	Nitrogen, Argon, Helium

**MANIFOLD 3-WAY OUTLET
COUPLER TEES, BRASS**




T3-540

PART NO.		W/CV	GAS SERVICE	DESCRIPTION	GAS	
WITH CGA NUT & NIPPLE Pressures to 3000 PSIG (20,700 kPa)						
<p>MANIFOLD 4-WAY COUPLER TEES, BRASS With and Without Check Valves</p>  <p>T4-540CV</p>		T4-540	T4-540CV	CGA-540	RH Male	Oxygen
		T4-580	-	CGA-580	RH Female	Nitrogen, Argon, Helium


PART NO.	DESCRIPTION	MAX PSIG	GAS	GAS SERVICE
MB-10	RH Male Outlets - Special	500	Commerc. Acet.	CGA-300
MB-346	RH Male Outlets	3000	Air	CGA-346
MB-40-7	LH Female Outlets	500	POL Acet., Propane	CGA-510
MB-50	RH Male Outlets	3000	Oxygen	CGA-540
MB-50CV	With Check Valve Inlet Nipple	3000	Oxygen	CGA-540
MB-70	RH Female Outlets	3000	Nitrogen, Argon, Helium	CGA-580
MB-70CV	With Check Valve Inlet Nipple	3000	Nitrogen, Argon, Helium	CGA-580

**MANIFOLD BLOCK
ASSEMBLIES, BRASS**





MB-70

**Use with any Pigtailed having CGA connections.
Brass Pigtailed recommended for use with acetylene.**

<p>MANIFOLD HEX BLOCKS, BRASS & STAINLESS STEEL</p>  <p>MB-7 MB-6</p>		PART NO.	DESCRIPTION	MAX PSIG	MATERIAL
		2" Block, Six Outlets:			
MB-6	1/4" NPT Female Side Outlets	3000	Brass		
MB-6SS	1/4" NPT Female Side Outlets	6000	St. Steel		
2" Block, Seven Outlets:					
MB-7	1/4" NPT Female Side/Top Outlets	3000	Brass		
MB-7SS	1/4" NPT Female Side/Top Outlets	6000	St. Steel		

CHAIN & PLUG ASSEMBLIES

	PART	DESCRIPTION	MATERIAL	WORKING PRESSURE	GAS	SERVICE
<p>CHAIN & PLUG ASSEMBLIES, BRASS & STAINLESS STEEL</p> <ul style="list-style-type: none"> • One and two-piece assemblies provide gas-tight sealing • Meet all CGA specifications for sealing manifolds and cylinders • CGA nut and blind nipple (plug) combination  <p>CP-580</p>  <p>992</p>	TWO-PIECE ASSEMBLIES					
	927	9/16"-18 RH Female Nut & Plug	Brass	0-200	Oxygen	CGA-022
	928	9/16"-18 LH Female Nut & Plug	Brass	0-200	Acetylene	CGA-023
	C-907	7/8"-14 RH Female Nut & Plug	Brass	0-200	Oxygen	CGA-024
	C-908	7/8"-14 LH Female Nut & Plug	Brass	0-200	Acetylene	CGA-025
	922	5/8"-18 RH Male Nut (AW-14A) & Plug	Brass	0-200	Inert Arc	-
	9326	RH Female Nut & Plug	Brass	0-3000	Nitrous Oxide	CGA-326
	9346	RH Female Nut & Plug	Brass	0-3000	Air	CGA-346
	9347	RH Female Nut & Plug	Stainless Steel	0-5500	Air	CGA-347
	982	LH Female Nut & Plug	Brass	0-3000	Hydrogen, Nat. Gas	CGA-350
	915	LH Male Nut & Plug	Brass	0-500	POL Acetylene	CGA-510
	962	RH Female Nut & Plug	Brass	0-3000	Oxygen	CGA-540
	992	RH Male Nut & Plug	Brass	0-3000	Nitrogen, Argon, Helium	CGA-580
	ONE-PIECE ASSEMBLIES					
	CP-320	RH Female Nut & Plug	Brass	3000	Carbon Dioxide	CGA-320
	CP-326	RH Female Nut & Plug	Brass	3000	Nitrous Oxide	CGA-326
	CP-346	RH Female Nut & Plug	Brass	3000	Air	CGA-346
	CP-350	LH Female Nut & Plug	Brass	3000	Hydrogen, Nat. Gas	CGA-350
	CP-510	LH Male Nut & Plug	Brass	500	POL Acetylene	CGA-510
	CP-520	"B" Tank RH Female Nut & Plug	Brass	500	Acetylene	CGA-520
CP-540	RH Female Nut & Plug	Brass	3000	Oxygen	CGA-540	
CP-580	RH Male Nut & Plug	Brass	3000	Nitrogen, Argon, Helium	CGA-580	
CP-590	LH Male Nut & Plug	Brass	3000	Industrial Air	CGA-590	

SPECIFICATIONS FOR PIGTAIL ASSEMBLIES

FOR 3000 PSIG STAINLESS STEEL BRAID/PTFE HOSE PIGTAILS FITTED WITH BRASS CONNECTIONS

Design & Material Data:

- Core consists of PTFE (polytetrafluoroethylene) with two outer reinforcing jackets of stainless steel braid (PTFE is inert to most chemicals and solvents, except molten alkali metals and fluorine at elevated temperatures and pressures)
- 1/4" nominal I.D.
- Braid consists of Type 304 full hard drawn stainless steel wire
- PTFE withstands temperatures from -65°F (-54C) through +450°F (232C)
- Burst pressure rating at room temperature: 12,000 PSIG
- Minimum bend radius of 3 inches provides for maximum life and safe performance
- Maximum 3000 PSIG working pressure on tubing
- Brass cylinder connections machined to CGA specifications for applicable gases
- All pigtails 100% tested before shipping and labelled for gas service and pressure rating
- Pressure ratings limited by CGA connection standards—the lowest pressure rating prevails

Notes:

- Burst pressure ratings for pigtails are determined at room temperature with the hose in a straight line. A safety factor of 4:1 or 5:1 should be used for normal applications. Impulse and shock pressure applications may require a higher safety factor.
- Do not apply heat to pigtails.

FOR 6000 PSIG STAINLESS STEEL BRAID/PTFE HOSE PIGTAILS FITTED WITH STAINLESS STEEL CONNECTIONS

Design & Material Data:

- Core consists of high pressure, reinforced PTFE (polytetrafluoroethylene) hose (PTFE is inert to most chemicals and solvents, except molten alkali metals and fluorine at elevated temperatures and pressures)
- PTFE fluid and ambient temperature range: -65°F (-54 C) through +450°F (232°C)
- 1/4" nominal I.D.
- .229" Minimum I.D.
.495" Maximum O.D.
- Conductive; extruded PTFE dissipates static charges

- Braid consists of inner layer with type 304 SS stainless steel, two layers of stainless steel spiral wrap, plus an outer braid of stainless steel
- Burst pressure rating at room temperature: 24,000 PSIG (see note below)
- Type 316 stainless steel used for primary tube fittings with swaged design
- Most CGA cylinder connections machined of stainless steel to specifications for applicable gases
- Minimum bend radius of 3" provides for maximum life and safe performance
- All pigtails 100% tested and labeled for gas service and pressure rating

HOW TO SPECIFY A SPECIAL ORDER WESTERN PIGTAIL

TUBE/HOSE TYPE & SIZE	INLET END CONNECTION	INLET END CONN. FINISH	OPTIONAL FEATURES
PF	346N		HTP
Rigid Tube P4 = 1/4" OD P = 5/16" OD P6 = 3/8" OD* PB = 5/16" OD PB6 = 3/8" OD* PS = 1/4" OD Flex Hose PF = 1/4" ID PFS = 1/4" ID PF6 = .229" ID	All Styles CGA No. +N= CGA Nut/Nipple Example: 540N CGA No. +B= CGA VO or Body Example: 540B Fraction +M or F= ANSI Pipe Thread Example: 1/4F	All Styles Blank = Brass PL = Plated SS = S Steel	All Styles Blank (None) CV = Check Valve FA = Flash Arrestor* HTP = Hand Tight N/N w/Plastic Grip HTB = Hand Tight N/N w/Brass H/T Nut GA = Gauge PH = Brass Handle VA = Shutoff Valve EL = 90° Elbow
Model P - 3000 PSIG (20,700kPa),....Rigid Copper Pigtail Model PB - 3000 PSIG (20,700kPa),....Rigid Brass Pigtail Model PS - 6000 PSIG (41,300kPa),....Rigid Stainless Steel Pigtail Model PF - 3000 PSIG (20,700kPa),....Flexible PTFE Lined Pigtail Model PFS - 3000 PSIG (20,700kPa),....Flexible Nylon-Lined Pigtail Model PF6 - 6000 PSIG (41,300kPa),....Flexible PTFE Lined Pigtail			

*Use with 3/8" OD Flash Arrestor option.

**SPECIAL ORDER
PIGTAILS**

**FOR 3000 PSIG THERMOPLASTIC
HOSE PIGTAILS WITH STAINLESS
STEEL OR BRASS CONNECTIONS**

Note: Hydrogen and Helium use only.

Design & Material Data:


- Nylon core
- Nylon withstands temperatures from -65°F (-54°C) through +250°F (+121C)
- 1/4" nominal I.D.
- Synthetic fiber braid with polyurethane cover
- Minimum bend radius: 3"
- Burst pressure rating at room temperature: 12,000 PSIG (see note on page 66)
- CGA cylinder connections machined of brass to specifications for applicable gases
- Pressure ratings limited by CGA connections standards—the lowest pressure rating prevails
- Nylon core minimizes permeation of Helium and Hydrogen
- Non-conductive hose requires additional grounding for Hydrogen service
- Not available for oxygen service
- All Pigtails 100% tested and labeled for gas service and pressure rating

Western can make special pigtails in a variety of lengths and in any combination of compatible CGA fittings. However, Western is not responsible for misuse and service life of special pigtails when the applications are unknown to the company.

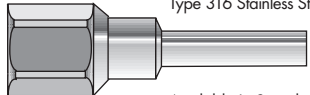
OUTLET END CONNECTION	OUTLET END CONN. FINISH	OPTIONAL FEATURES	TUBE/HOSE LENGTH	BEND/SWIVEL OPTIONS
1/2M			36	B
<p>All Styles CGA No. + N = CGA Nut/Nipple Example: 540 N CGA No. + B = CGA VO or Body Example: 540 N Fraction + M or F = ANSI Pipe Thread Example: 1/4F</p>	<p>All Styles Blank =Brass PL =Plated SS =St. Steel</p>	<p>All Styles Blank (None) CV =Check Valve FA =Flash Arrestor* HTP =Hand Tight N/N with Plastic Grip HTB =Hand Tight N/N with Brass H/T Nut GA =Gauge PH =Brass Handle VA =Shutoff Valve EL =90° Elbow</p>	<p>Rigid Tube 27 = 27 inches 36 = 36 inches 48 = 48 inches</p> <p>Flex Hose Lengths in 6" Increments: 12" minimum 18" minimum- Spring Guard 300" maximum Example: 12 = 12" (Note: Lengths do not include connections)</p>	<p>Rigid Tube Bends COIL Standard on 48+" DBL Two 3" Loops Standard on 27" P, PB SGL 6" Loop Standard, 36" P, PB, PS SPCL Special Bend, Print Required</p> <p>Flex Hose Only B =Spring Guard B1 =Spring Guard w/Swivel Inlet B2 =Spring Guard w/Swivel Outlet B1.2 =Spring Guard w/Swivel, Both Ends</p>

Use the chart above to develop specifications for Special Order Pigtails.

For example: PF-346N-HTP x 1/2M-36B
represents 1/4" I.D. flexible PTFE lined Pigtail with
CGA 346 Nut/Nipple Inlet Connection (brass) Hand-tight
with plastic tip and 1/2" NTP M Outlet Connection (brass),
36" long with Spring Guard

		PART NO.	WITH CV	DESCRIPTION	GAS SERVICE
<p>RIGID PIGTAILS, BRASS ACETYLENE & LPG SERVICE Pressure to 500 PSIG (3400 kPa)</p>  <p>P-15-PCV</p>		5/16" X .065" WALL BRASS TUBING 20" FINISHED LENGTH OVERALL			
		P-16	-	RH F Propane, Comm. Acet, Horiz.	CGA-300
		PV-15	-	LH M Propane, Brass, Horiz.	CGA-510
		P-15	P-15CV	LH M Propane, Mapp, Horiz.	CGA-510
		P-15-P	P-15-PCV	LH M Propane, POL Acet, Vert.	CGA-510

PART NO.	DESCRIPTION	GAS SERVICE	<p>HAND-TIGHT RIGID PIGTAILS FOR PLANT OR FILLING STATIONS with Brass Connections Pressure to 3000 PSIG (20,700 kPa) 36" Bent to 20" Finished Length Overall</p>
HAND-TIGHT NUTS & NIPPLES * 5/16" x .065" WALL COPPER TUBE			
PHC-320	RH F Carbon Dioxide	CGA-320	
PHC-326	RH F Nitrous Oxide	CGA-326	
PHC-346	RH F Air	CGA-346	
PHC-63	RH F Oxygen	CGA-540	
PHC-83	LH F Hydrogen	CGA-350	
PHC-92	RH M Nitrogen, Argon	CGA-580	

		PART NO.	WITH CV	DESCRIPTION	GAS SERVICE
<p>STAINLESS STEEL RIGID PIGTAILS with Stainless Steel Connections * PRESSURES TO 3000 PSIG (20,700 kPa)</p> <p>Type 304 Stainless Steel Tube TIG Welded For Long Service Life Type 316 Stainless Steel Welded Fittings</p>  <p>Available In Straight Lengths</p> <p>Use With Either Stainless Steel Or Brass Connections</p>		1/4" x .049 WALL ST. STEEL TUBE TYPE 316 SS CGA FITTINGS 20" Finished Length Overall			
		PS-320	-	Carbon Dioxide, RH F	CGA-320
		PS-540	PS-540CV	Oxygen, RH F	CGA-540
		PS-580	PS-580CV	Nitrogen, Argon, RH M	CGA-580
		PS-590	-	Industrial Air, LH M	CGA-590

PART NO. WITH CV		DESCRIPTION	GAS SERVICE
5/16" x .065" WALL COPPER TUBE, DOUBLE LOOP Pressures to 3000 PSIG (20,700 kPa)			
PH-320	-	RH F Carbon Dioxide	CGA-320
PH-326	PH-326CV	RH F Nitrous Oxide	CGA-326
PH-346	PH-346CV	RH F Air	CGA-346
PH-63	PH-63CV	RH F Oxygen	CGA-540
PH-73	-	LH F Propane (Liquid With.)	CGA-555
PH-83	PH-83CV	LH F Hydrogen	CGA-350
PH-92	PH-92CV	RH M Nitrogen, Argon	CGA-580
PH-93	-	LH M Industrial Air	CGA-590
5/16" x .065" WALL BRASS TUBE, SINGLE LOOP Pressures to 500 PSIG (3400 kPa)			
PH-300	-	RH F Commercial Acetylene	CGA-300
PH-510	-	LH M POL Acetylene	CGA-510

**RIGID PIGTAILS,
BRASS FORGED HANDLE**
with Brass Connections

Check Valve Nipple

Flow →

CGA Nut & Nipple

27" Length Bent to 12" Overall Length

PH-63CV

Brass Pigtail

Handle (Part PH-1)

PART NO. WITH CV		DESCRIPTION	SERVICE
MANIFOLD RIGID PIGTAILS, COPPER TUBING with Brass Connections PRESSURES TO 3000 PSIG (20,700 kPa)			
ANNEALED 5/16" x .065" WALL COPPER TUBE			
P-CO-3	-	RH F, Carbon Dioxide	CGA-320
P-63	P-63CV	RH F, Oxygen	CGA-540
P-73	-	LH F, Propane (Liquid With.)	CGA-555
P-83	P-83CV	LH F, Hydrogen	CGA-350
P-92	P-92CV	RH M, Nitrogen, Argon, Helium	CGA-580
P-93	-	LH M, Industrial Air	CGA-590
P-1320	P-1320CV	RH F, Nitrous Oxide	CGA-326
P-1340	P-1340CV	RH F, Air	CGA-346

P-92CV

27" Length Bent to 12"

PART NO.	DESCRIPTION	SERVICE
ANNEALED 5/16" x .065" WALL COPPER TUBE		
PV-CO-3	RH F, Carbon Dioxide	CGA-320
PV-1340	RH F, Air	CGA-346
PV-63	RH F, Oxygen	CGA-540
PV-92	RH M, Nitrogen, Argon, Helium	CGA-580

RIGID PIGTAILS, COPPER TUBING, BRASS SHUTOFFS
with Brass Connections
Pressures to 3000 PSIG (20,700 kPa)

← Flow

27" length Bent to 14" Finished length

PV-92

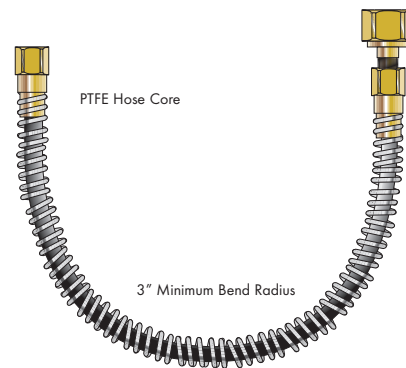
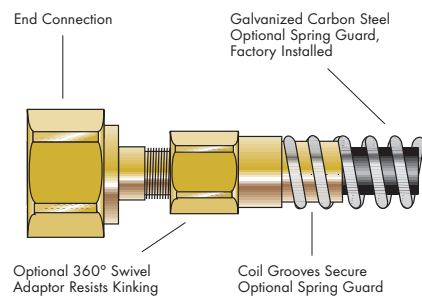
PART NO.	DESCRIPTION
STAINLESS STEEL RIGID PIGTAILS Pressures to 6000 PSIG (41,300 kPa)	
	1/4" Female Both Ends
PS-4-36	36" Length, Straight
PS-4-48	48" Length, Straight
PS-4-60	60" Length, Straight

SERVICE	PART NO.	DESCRIPTION	WORKING PRESSURE
-	PF-4	1/4" NPT F x 1/4" F NPT with Spring Guard: Add B to End of Part No.	0-3000
COMPLETE ASSEMBLIES			
CGA-300	PF-16 PF-16CV PF-16HT	Commercial Acetylene, RH Female with Check Valve, Inlet with Hand Tight Nut, One End	0-500
CGA-320	PF-320 PF-320HT	Carbon Dioxide, RH Female with Spring Guard add B to length with Hand Tight Nut, One End	0-3000
CGA-326	PF-326 PF-326CV PF-326HT	Nitrous Oxide, RH Female with Spring Guard add B to length with Check Valve, Inlet Side with Hand Tight Nut, One End	0-3000
CGA-346	PF-346 PF-346CV PF-346HT	Air, RH Female with Spring Guard add B to length with Check Valve, Inlet Side with Hand Tight Nut, One End	0-3000
CGA-347	PF-347 PF-347CV PF-347HT	Air, RH Female with Check Valve, Inlet Side with Hand Tight Nut, One End	3001-5500
CGA-510	PF-15 PF-15CV PF-15HT	POL Acetylene, LH Male with Check Valve, Inlet Side with Hand Tight Nut, One End	0-500
CGA-540	PF-63 PF-63CV PF-63HT	Oxygen, RH Female with Spring Guard add B to length with Check Valve, Inlet Side with Hand Tight Nut, One End	0-3000
CGA-577	PF-577 PF-577CV	Oxygen, RH Female with Check Valve, Inlet Side	3001-4000
CGA-580	PF-92 PF-92CV PF-92HT	Nitrogen, Argon, RH Male with Spring Guard add B to length with Check Valve, Inlet Side with Hand Tight Nut, One End	0-3000
CGA-590	PF-93 PF-93CV PF-93HT	Industrial Air, LH Male with Spring Guard add B to length with Check Valve, Inlet Side with Hand Tight Nut, One End	0-3000
CGA-680	PF-680 PF-680CV PF-680HT	Inert Gases, RH Male with Check Valve, Inlet Side with Hand Tight Nut, One End	3001-5500
CGA-701	PF-701 PF-701CV	Oxygen, RH Female with Check Valve, Inlet Side	4001-5500

**STAINLESS STEEL FLEXIBLE
PIGTAILS, BRASS CONNECTIONS**

- **SUB ASSEMBLY FOR SPECIAL CONFIGURATIONS**
- **AVAILABLE IN A VARIETY OF LENGTHS**
- **100% TESTED AND CLEANED FOR OXYGEN SERVICE**
- **FOR HOSE SPECIFICATIONS SEE PAGE 64**

Type 304 SS Braid



**HOW TO ORDER
PF-XXX-XX-X**

- | | | |
|--|--|---|
| <p>END CONNECTIONS
From CGA listing Below</p> | <p>LENGTH
18", 24", 36", 48"
(Note: Lengths Do Not include Connections)</p> | <p>OPTIONS
B = Spring Guard
B1 = Spring Guard, With Inlet Swivel Adaptor
B2 = Spring Guard, With Outlet Swivel Adaptor</p> |
|--|--|---|

PART NO.		DESCRIPTION	MAX PSIG	GAS SERVICE
COMPLETE ASSEMBLIES 100% TESTED				
PFS-83		Hydrogen, LH F	0-3000	CGA-350
PFS-83CV		with Check Valve, Inlet Side		
PFS-92		Helium, RH M	0-3000	CGA-580
PFS-92CV		with Check Valve, Inlet Side		

**THERMOPLASTIC FLEXIBLE
PIGTAILS, NYLON LINED,
BRASS CONNECTIONS**

PART NO.		DESCRIPTION	MAX PSIG	SERVICE
COMPLETE ASSEMBLIES 100% TESTED & OXYGEN CLEANED				
PF-346SS		Air, RH F	3000	CGA-346
PF-347SS		High Pressure Air, RH F	5500	CGA-347
PF-350SS		Natural Gas, LHF	3000	CGA-350
PF-540SS		Oxygen, RH F	3000	CGA-540
PF-580SS		Argon, Nitrogen, Etc, RH M	3000	CGA-580
PF-590SS		Air, Nitrogen, Etc, LH M	3000	CGA-590
PF-4SS		1/4" NPT Female to 1/4" NPT F	6000	-

**STAINLESS STEEL FLEXIBLE
PIGTAILS, LINED, STAINLESS
STEEL PTFE CONNECTIONS**

3" Minimum Bend Radius

Progressive-swagged SS Fitting

Inner Core

Inner SS Wire Braid

Outer SS Wire Spiral Wrap

Inner SS Wire Spiral Wrap

Outer SS Wire Braid

Stainless Steel Connections

See page 46 for hose specifications

PART NO.	DESCRIPTION	LENGTH
100% TESTED & CLEANED FOR OXYGEN * INDIVIDUALLY POLY BAGGED 3" MINIMUM BEND RADIUS		
PF2-4-12	1/4" NPT Female End Connections	12"
PF2-4-18	1/4" NPT Female End Connections	18"
PF2-4-24	1/4" NPT Female End Connections	24"
PF2-4-36	1/4" NPT Female End Connections	36"
PF2-4-48	1/4" NPT Female End Connections	48"
PF2-4-60	1/4" NPT Female End Connections	60"
PF2-4-72	1/4" NPT Female End Connections	72"

**STAINLESS STEEL FLEXIBLE
PIGTAILS, BRASS CONNECTIONS**

Pressures to 3000 PSIG (20,700 kPa)

No Specials Available

See page 46 for hose specifications

PART NO.	DESCRIPTION	LENGTH
100% TESTED & CLEANED FOR OXYGEN * INDIVIDUALLY POLY BAGGED 2-3/4" MINIMUM BEND RADIUS		
HPF-4-18	1/4" NPT F x 1/4" NPT F	18"
HPF-4-24	1/4" NPT F x 1/4" NPT F	24"
HPF-4-36	1/4" NPT F x 1/4" NPT F	36"
HPF-4-48	1/4" NPT F x 1/4" NPT F	48"

**STAINLESS STEEL FLEXIBLE
PIGTAILS, STAINLESS STEEL
CORRUGATED INNER CORE,
STAINLESS STEEL CONNECTIONS**

Pressures to 3000 PSIG (20,700 kPa)

CRYOGENIC HOSES SAE FLARE CONNECTIONS

CRYOGENIC TRANSFER HOSES

For Oxygen, Nitrogen, Carbon Dioxide, Nitrous Oxide and Argon Cryogenic Liquids


- Use in cryo-biological and medical systems, and gas filling plants
- Constructed with 316 stainless steel for all wetted parts
- Machined CGA Stainless Steel end connections
- Cleaned for oxygen service
- Hoses meet all applicable FDA and CGA Guidelines
- Exceptional flexibility, hose resists kinking
- 1/2" ID

ACCESSORIES

- 90° stainless steel elbow extends hose life
- Phase separator speeds filling and controls splashing


PART NO.	DESCRIPTION	SERVICE
Oxygen Hose Assembly:		CGA-440
WMH-2-9	48"	
WMH-2-10	60"	
WMH-2-11	72"	
WMH-2-12	120"	
WMH-2-13	144"	
Nitrogen, Argon Hose Assembly:		CGA-295
WMH-2-14	48"	
WMH-2-15	60"	
WMH-2-16	72"	
WMH-2-17	120"	
WMH-2-18	144"	
F-61	Oxygen, SS Cylinder Fill Elbow 90°	CGA-440
F-63	Nitrogen, Argon, SS Cylinder Fill Elbow 90°	CGA-295
F-62*	Phase Separator, 3/8" NPT F x 2 1/2" Long	-

TRANSFER HOSE, CRYOGENIC
Pressures to 500 PSIG (3400 kPa)



*To attach to Transfer Hose Assembly, use F-32 for CGA-295 or F-42 for CGA-440

PART NO.	DESCRIPTION	PART	SERVICE	SAE FLARE
BRASS SAE FLARE TUBING CONNECTIONS				
Pressures to 500 PSIG (3400 kPa)				
F-10	.4375"-20 UNF-2B, RH F	Nut	CGA-165	1/4"
F-11	CGA-165 to 1/8" NPT M	Adaptor		1/4"
F-12	CGA-165 to 1/4" NPT M	Adaptor		1/4"
F-20	.625"-18 UNF-2B, RH F	Nut	CGA-182	3/8"
F-22	CGA-182 to 1/4" NPT M	Adaptor		3/8"
F-30	.750"-16 UNF-2B, RH F	Nut	CGA-295	1/2"
F-31	CGA-295 to 1/4" NPT M	Adaptor		1/2"
F-32	CGA-295 to 3/8" NPT M	Adaptor		1/2"
F-33	CGA-295 To 1/2" NPT M	Adaptor		1/2"
F-40	.875"-14 UNF-2B, RH F	Nut	CGA-440	5/8"
F-41	CGA-440 to 1/4" NPT M	Adaptor		5/8"
F-42	CGA-440 to 3/8" NPT M	Adaptor		5/8"
F-43	CGA-440 to 1/2" NPT M	Adaptor		5/8"
F-44	CGA-440 to 3/4" NPT M	Adaptor		5/8"



CGA 622 SERIES FITTINGS

PART NO.	DESCRIPTION	SERVICE
Pressures to 500 PSIG (3400 kPa)		
Carbon Dioxide (R-744)		CGA-622
622-2	Nut, Stamped CGA 622	
622-3	Nipple, CGA 622 x 1/4" NPT	
F-51	Adaptor, CGA 622 x 1/4" NPT	
F-52	Adaptor, CGA 622 x 3/8" NPT	
F-53	Adaptor, CGA 622 x 1/2" NPT	
WMH-2-29	Hose Assembly, CGA 622, 48"	
WMH-2-30	Hose Assembly, CGA 622, 60"	
WMH-2-31	Hose Assembly, CGA 622, 72"	
WMH-2-32	Hose Assembly, CGA 622, 120"	
WMH-2-33	Hose Assembly, CGA 622, 144"	

CGA 624 SERIES FITTINGS

PART NO.	DESCRIPTION	SERVICE
Pressures to 500 PSIG (3400 kPa)		
Nitrous Oxide (R-744a)		CGA-624
624-2	Nut, Stamped CGA 624	
624-3	Nipple, CGA 624 x 1/4" NPT	
F-71	Adaptor, CGA 624 x 1/4" NPT	
F-72	Adaptor, CGA 624 x 3/8" NPT	
F-73	Adaptor, CGA 624 x 1/2" NPT	
WMH-2-34	Hose Assembly, CGA 624, 48"	
WMH-2-35	Hose Assembly, CGA 624, 60"	
WMH-2-36	Hose Assembly, CGA 624, 72"	
WMH-2-37	Hose Assembly, CGA 624, 120"	
WMH-2-38	Hose Assembly, CGA 624, 144"	

CYLINDER ADAPTORS

Adaptors connect a regulator to a cylinder or other equipment when different CGA threads on the mating parts make a direct connection impossible.

Adaptors must be selected with care to ensure that regulators and other equipment are used only with

compatible gases and pressure ratings.

A mixture of non-compatible gases in any system is a possible hazard. Regulators and all other parts of an adapted system must be thoroughly purged of all contaminants, especially organic material and residual gases. Replace worn or

damaged fittings immediately to ensure safe and dependable operation.

Adaptors should not be used as permanent installations. For long-term use, the appropriate CGA regulator should be used on all cylinders and gas systems.

CYLINDER ADAPTORS TABLE					
CYLINDER CGA TO REGULATOR CGA PLUS COMPONENT PARTS					
PART NUMBERS				FROM CYLINDER SERVICE	TO REGULATOR SERVICE
CYLINDER ADAPTOR	CYLINDER NUT	CYLINDER NIPPLE	REGULATOR ADAPTOR		
322	305-2	305-3	15-1	CGA-200 "MC" Acetylene	CGA-300 Commercial Acetylene
321	305-2	305-3	16-1	CGA-200 "MC" Acetylene	CGA-510 POL Acetylene 90°
324	305-2	305-3	16-1	CGA-200 "MC" Acetylene	CGA-510 POL Acetylene
305	305-2	305-3	305-1	CGA-200 "MC" Acetylene	CGA-520 "B" Tank 90°
314	305-2	305-3	314-1	CGA-200 "MC" Acetylene	CGA-520 "B" Tank
831	284	283	415-1	CGA-280 Medical Mixtures	CGA-540 Oxygen
840	N/A	N/A	N/A	CGA-295 Argon (LqW)	CGA-440 Oxygen (LqW)
841	29-2	29-3	417-1	CGA-296 Ind Mix (Oxygen)	CGA-590 Industrial Air
304	16-2	16-3	302-1	CGA-300 Commercial Acetylene	CGA-200 "MC" Acetylene
16	16-2	16-3	16-1	CGA-300 Commercial Acetylene	CGA-510 POL Acetylene
61	16-2	16-3	16-1	CGA-300 Commercial Acetylene	CGA-510 POL Acetylene
1690	16-2	16-3	300-1	CGA-300 Commercial Acetylene	CGA-510 POL Acetylene 90°
316	16-2	16-3	301-1	CGA-300 Commercial Acetylene	CGA-520 "B" Tank
806	CO-2	CO-3	416-1	CGA-320 Carbon Dioxide	CGA-580 Nitrogen
827	14-2	14-3	415-1	CGA-346 Air	CGA-540 Oxygen
828	14-2	14-3	416-1	CGA-346 Air	CGA-580 Nitrogen
843	14-2	14-3	417-1	CGA-346 Air	CGA-590 Industrial Air
808	82	83	416-1	CGA-350 Hydrogen	CGA-580 Nitrogen
1453	410-2	410-3	16-1	CGA-410 Canadian Acetylene	CGA-510 POL Acetylene
872	500-2	15-8	415-1	CGA-500 Medical Mixtures	CGA-540 Oxygen
873	500-2	15-8	416-1	CGA-500 Medical Mixtures	CGA-580 Nitrogen
874	500-2	15-8	417-1	CGA-500 Medical Mixtures	CGA-590 Industrial Air
320	15-2	15-8	302-1	CGA-510 POL Acetylene	CGA-200 "MC" Acetylene
15	15-2	15-8	15-1	CGA-510 POL Acetylene	CGA-300 Commercial Acetylene
51	15-2	15-8	15-1	CGA-510 POL Acetylene	CGA-300 Coml Acet 1 Piece
818	15-2	15-8	800-1	CGA-510 POL Acetylene	CGA-350 Hydrogen
1516	15-2	15-8	1516-1	CGA-510 POL Acetylene	CGA-410 Canadian Acetylene
820	15-2	15-8	300-1	CGA-510 POL Acetylene	CGA-510 POL Acetylene 90°
315	15-2	15-8	301-1	CGA-510 POL Acetylene	CGA-520 "B" Tank
306	300-2	-	306-1	CGA-520 "B" Tank Acetylene	CGA-200 "MC" Acetylene
319	300-2	300-3	15-1	CGA-520 "B" Tank Acetylene	CGA-300 Commercial Acetylene
317	300-2	300-3	16-1	CGA-520 "B" Tank Acetylene	CGA-510 POL Acetylene
318	300-2	300-3	300-1	CGA-520 "B" Tank Acetylene	CGA-510 POL Acetylene 90°
832	62	63	1341-1	CGA-540 Oxygen	CGA-346 Air
416	62	63	416-1	CGA-540 Oxygen	CGA-580 Nitrogen
802	72	73	16-1	CGA-555 Propane (LqW)	CGA-510 POL Acetylene
809	72	73	416-1	CGA-555 Propane (LqW)	CGA-580 Nitrogen
810	92	15-8	CO-2-1	CGA-580 Nitrogen	CGA-320 Carbon Dioxide
830	92	15-8	1341-1	CGA-580 Nitrogen	CGA-346 Air
811	92	15-8	800-1	CGA-580 Nitrogen	CGA-350 Hydrogen
415	92	15-8	415-1	CGA-580 Nitrogen	CGA-540 Oxygen
812	92	15-8	414-1	CGA-580 Nitrogen	CGA-555 Propane (LqW)
813	92	15-8	417-1	CGA-580 Nitrogen	CGA-590 Industrial Air
858	93	15-8	1341-1	CGA-590 Industrial Air	CGA-346 Air
815	93	15-8	416-1	CGA-590 Industrial Air	CGA-580 Nitrogen

**CYLINDER ADAPTORS,
BRASS**

<p>CGA-200</p> <p>To CGA-300: Part 322</p>  <p>"MC" Acetylene Cylinder To Commercial Acetylene Regulator</p>	<p>CGA-280</p> <p>To CGA-540: Part 831</p>  <p>Medical Breathing Mix Cylinder To Oxygen Regulator</p>	<p>CGA-300</p> <p>To CGA-510: Part 61</p>  <p>Commercial Acetylene Cylinder To POL Acetylene Regulator</p>	<p>CGA-346</p> <p>To CGA-580: Part 828</p>  <p>Air Cylinder To Argon, Helium, Nitrogen Regulator</p>
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<p>CGA-200</p> <p>To CGA-510: Part 321</p>  <p>"MC" Acetylene Cylinder To POL Acetylene Regulator</p>	<p>CGA-295</p> <p>To CGA-440: Part 840</p>  <p>Argon (LqW) Cylinder To Oxygen (LqW) Regulator</p>	<p>CGA-300</p> <p>To CGA-510: Part 1690</p>  <p>Commercial Acetylene Cylinder To POL Acetylene Regulator At 90°</p>	<p>CGA-346</p> <p>To CGA-590: Part 843</p>  <p>Air Cylinder To Industrial Air Regulator</p>
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<p>CGA-200</p> <p>To CGA-510: Part 324</p>  <p>"MC" Acetylene Cylinder To POL Acetylene Regulator</p>	<p>CGA-296</p> <p>To CGA-590: Part 841</p>  <p>Industrial Mix Of Oxygen (Over 23%) Cylinder To Industrial Air Regulator</p>	<p>CGA-300</p> <p>To CGA-520: Part 316</p>  <p>Commercial Acetylene Cylinder To "B" Tank Regulator</p>	<p>CGA-350</p> <p>To CGA-580: Part 808</p>  <p>Hydrogen Cylinder To Nitrogen, W.P. Regulator</p>
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<p>CGA-200</p> <p>To CGA-520: Part 305</p>  <p>Adapts "MC" Acetylene Cylinder To "B" Tank Regulator At 90°</p>	<p>CGA-300</p> <p>To CGA-200: Part 304</p>  <p>Commercial Acetylene Cylinder To "MC" Acetylene Regulator</p>	<p>CGA-320</p> <p>To CGA-580: Part 806</p>  <p>Carbon Dioxide Cylinder To Nitrogen, W.P. Regulator</p>	<p>CGA-500</p> <p>To CGA-540: Part 872</p>  <p>Med Mixtures Cylinder To Oxygen Regulator</p>
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<p>CGA-200</p> <p>To CGA-520: Part 314</p>  <p>"MC" Acetylene Cylinder To "B" Tank Regulator</p>	<p>CGA-300</p> <p>To CGA-510: Part 16</p>  <p>Commercial Acetylene Cylinder To POL Acetylene Regulator</p>	<p>CGA-346</p> <p>To CGA-540: Part 827</p>  <p>Air Cylinder To Oxygen Regulator</p>	<p>CGA-500</p> <p>To CGA-580: Part 873</p>  <p>Med Mixtures Cylinder To Nitrogen, W.P. Regulator</p>
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**CYLINDER ADAPTORS,
BRASS**

<p>CGA-500</p> <p>To CGA-590: Part 874</p>  <p>Medical Mixtures Cylinder To Industrial Air Regulator</p>	<p>CGA-510</p> <p>To CGA-410: Part 1516</p>  <p>POL Acetylene Cylinder To Canadian Acetylene Regulator</p>	<p>CGA-520</p> <p>To CGA-510: Part 317</p>  <p>"B" Tank Cylinder To POL Acetylene Regulator</p>	<p>CGA-555</p> <p>To CGA-580: Part 809</p>  <p>Propane (LqW) Cylinder To Nitrogen, W.P. Regulator</p>
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<p>CGA-510</p> <p>To CGA-200: Part 320</p>  <p>POL Acetylene Cylinder To Commercial "MC" Acetylene Regulator</p>	<p>CGA-510</p> <p>To CGA-510: Part 820</p>  <p>POL Acetylene Cylinder To POL Acetylene Regulator At 90°</p>	<p>CGA-520</p> <p>To CGA-510: Part 318</p>  <p>"B" Tank Cylinder To POL Acetylene Regulator At 90°</p>	<p>CGA-580</p> <p>To CGA-320: Part 810</p>  <p>Nitrogen W.P. Cylinder To Carbon Dioxide Regulator</p>
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<p>CGA-510</p> <p>To CGA-300: Part 15</p>  <p>POL Acetylene Cylinder To Commercial Acetylene Regulator</p>	<p>CGA-510</p> <p>To CGA-520: Part 315</p>  <p>POL Acetylene Cylinder To "B" Tank Regulator</p>	<p>CGA-540</p> <p>To CGA-346: Part 832</p>  <p>Oxygen Cylinder To Air Regulator</p>	<p>CGA-580</p> <p>To CGA-346: Part 830</p>  <p>Nitrogen Cylinder To Air Regulator</p>
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<p>CGA-510</p> <p>To CGA-300: Part 51</p>  <p>POL Acetylene Cylinder To Commercial Acetylene Regulator (1 Piece)</p>	<p>CGA-520</p> <p>To CGA-200: Part 306</p>  <p>"B" Tank Cylinder To "MC" Acetylene Regulator</p>	<p>CGA-540</p> <p>To CGA-580: Part 416</p>  <p>Oxygen Cylinder To Nitrogen, Argon, W.P. Regulator</p>	<p>CGA-580</p> <p>To CGA-350: Part 811</p>  <p>Nitrogen W.P. Cylinder To Hydrogen Regulator</p>
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<p>CGA-510</p> <p>To CGA-350: Part 818</p>  <p>POL Acetylene Cylinder To Hydrogen Regulator</p>	<p>CGA-520</p> <p>To CGA-300: Part 319</p>  <p>"B" Tank Cylinder To Commercial Acetylene Regulator</p>	<p>CGA-555</p> <p>To CGA-510: Part 802</p>  <p>Propane (LqW) Cylinder To POL Acetylene Regulator</p>	<p>CGA-580</p> <p>To CGA-540: Part 415</p>  <p>Nitrogen W.P. Cylinder To Oxygen Regulator</p>
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Photo of actual Point-of-Sale Display

WESTERN ENTERPRISES PACKAGING AND POINT-OF-SALE MATERIALS

At Western, we want to help you sell more of our high performance and now highly-visible products. Our new, appealing and effective packaging along with our point-of-sale materials will attract customers and optimize your selling area.

We designed our eye-catching merchandising to achieve maximum visual impact and allow your customers to view the complete line of Western's retail-packaged products. Our bold, full-

color packaging provides your customers with the information they need, including product descriptions and features. High-quality graphics provide either a clear view or a photo of the products.

Western will continue to expand the number of products offered in retail packaging along with developing other options for plan-o-grams.

PART #	PACKAGE	DESCRIPTION
BRASS CYLINDER ADAPTORS		
WD-15	Clamshell	CGA-510 - CGA-300
WD-51	Clamshell	CGA-510 - CGA-300 (One Piece Design)
WD-61	Clamshell	CGA-300 - CGA-510
WD-306	Clamshell	CGA-520 - CGA-200
WD-314	Clamshell	CGA-200 - CGA-520
WD-315	Clamshell	CGA-510 - CGA-520
WD-316	Clamshell	CGA-300 - CGA-520
WD-317	Clamshell	CGA-520 - CGA-510
WD-319	Clamshell	CGA-520 - CGA-300
WD-324	Clamshell	CGA-200 - CGA-510
WD-806	Clamshell	CGA-320 - CGA-580
WD-810	Clamshell	CGA-580 - CGA-320
WELDING FITTINGS		
WD2101	Plastic Bag	1/4" Twin Hose Repair Kit - B Size; (7-8-17-502)
WD2102	Plastic Bag	3/16" Twin Hose Repair Kit-B Size; (7-8-18-500)
WD2103	Plastic Bag	1/4" Hose Splicer Kit (44-502), 1 each per bag
WD2104	Plastic Bag	3/16" Hose Splicer Kit (45-500) 1, each per bag
WD2105	Plastic Bag	Hose-Hose Couplers (30-31), 1 each per bag
WD2106	Plastic Bag	Regulator-Hose Couplers (32-33), 1 each per bag
WD2107	Plastic Bag	Inert Hose Repair Kit 1/4"ID B Size
WD2108	Plastic Bag	Hose Clamp Kit 1/4"ID (502), 2 per bag
WD2109	Plastic Bag	Hose Clamp Kit 3/16"ID (500), 2 per bag
WD2110	Plastic Bag	Hose Ferrules- 1/4" ID (7325), 6 per bag
WD2111	Plastic Bag	Hose Ferrules 1/4" ID (3588), 6 per bag
WD2112	Plastic Bag	Hose Ferrules 3/16" ID (769), 6 per bag
WD2113	Plastic Bag	Hose Ferrules 3/16" ID(4750), 6 per bag
WD2114	Plastic Bag	CO2 Washer Kit (CO-5/CO-6) 3 each per bag
WD2115	Plastic Bag	O2 Hose Nuts B Size (#7), 2 per bag
WD2116	Plastic Bag	Fuel Gas Hose Nuts B size (#8), 2 per bag
WD2117	Plastic Bag	1/4" Hose Nipples B size (#17), 2 per bag
WD2118	Plastic Bag	3/16" Hose Nipples B size (#18), 2 per bag
WD2119	Plastic Bag	Oxy Nut/Nipple CGA540 (62-63), Set
WD2120	Plastic Bag	Acet Nut/Nipple CGA510(15-2-15-3), Set
WD2121	Plastic Bag	N2 Nut/Nipple CGA580 (92-93), Set
WD2122	Plastic Bag	Hose Ferrules 1/4" ID (7326), 6 per bag
WD2123	Plastic Bag	Hose Ferrules 1/4" ID (K-K), 6 per bag
WD2124	Plastic Bag	Hose Ferrules 3/16" ID (626), 6 per bag
WD2125	Plastic Bag	Hose Ferrules 3/16" ID (7323), 6 per bag
WD2126	Plastic Bag	Ferrule Assortment 1/4" (7325,7326,7327)
WD2127	Plastic Bag	Ferrule Assortment 3/16"(769,4750,624)
WD2128	Plastic Bag	A Size Twin Hose Kit 3/16" (9-10-19-500)
WD2129	Plastic Bag	Inert Gas Couplers (AW-430), 2 per bag
WD2130	Plastic Bag	Inert End Kit 3/16"(AW14A,AW18-500)
WD2131	Plastic Bag	Hose Splicers 1/4" ID (#44), 2 per bag
WD2132	Plastic Bag	Hose Splicers 3/16" ID(#45), 2 per bag
WD2133	Plastic Bag	Hose Splicers 3/8" ID (#47), 2 per bag
WD2138	Plastic Bag	Hose Couplers #30, 2 per bag
WD2139	Plastic Bag	Hose Couplers #31, 2 per bag
WD2140	Plastic Bag	Hose Couplers #32, 2 per bag
WD2141	Plastic Bag	Hose Ferrules #7327, 6 per bag
WD2142	Plastic Bag	Hose Ferrules #7329, 6 per bag
WD2143	Plastic Bag	Hose Nipples #20, 2 per bag
WD2144	Plastic Bag	Hose Ferrules #624, 6 per bag
WD2145	Plastic Bag	Hose Couplers #33, 2 per bag



WD-Mat

PART #	PACKAGE	DESCRIPTION
CHECK VALVES		
WE-60	Clamshell	Reverse Flow Check Valves Set - Torch Style
WE-61	Clamshell	Reverse Flow Check Valves - Regulator Style
Y VALVES		
111	Clamshell	Y-Valve Oxygen RH
112	Clamshell	Y-Valve Fuel Gas LH
FLASH ARRESTOR - QUICK CONNECT DISPLAY		
BD12	DISPLAY	12 Pack Check Valve, Flash Arrestors and Quick
CRIMPING TOOLS		
C-1	Blister Pack	Crimp Tool - Hammer Strike
C-5	Blister Pack	Crimp Tool - Hand Grip
HOSE REPAIR KITS		
CK-1	Boxed	Hose Repair Kit 3/16" & 1/4" with C-1 Tool
CK-3	Boxed	Hose Repair Kit 3/16" x1/4" Hose with C-3 Tool
CK-5	Boxed	Hose Repair Kit 3/16", 1/4" Hose with C-5 tool
CK-6	Boxed	Hose Repair Kit 5/16 & 3/8" with C-6 Tool
CK-7	Boxed	Hose Repair Kit B Size Fittings Only - No Tool
CK-20	Boxed	Hose Repair Kit - 1/4" Hose with C-1 tool
CK-22	Boxed	Hose Repair Kit - 1/4" Hose with C-1 tool (B Size Fittings)
CK-24	Boxed	Hose Repair Kit - 3/16" & 1/4" Hose with C-5 tool
CK-26	Boxed	Hose Repair Kit - 1/4" Hose with C-5 tool
FLASH ARRESTORS		
FA-10	Clamshell	Flashback Arrestors - Torch Style
FA-30	Clamshell	Flashback Arrestors - Regulator Style
QUICK CONNECTS		
QDB10	Clamshell	Quick Connect Set Torch-to-Hose
QDB20	Clamshell	Quick Connect Set Hose-to-Hose
QDB30	Clamshell	Quick Connect Set Regulator-to-Hose
REGULATORS		
REB-4-3	Boxed	Pressure Regulator - CO2 - CGA-320
REB-1-1	Boxed	Pressure Regulator - Acetylene - CGA-510
REB-9-3	Boxed	Pressure Regulator - Oxygen - CGA-540
REB-3-FG	Boxed	FlowGauge Argon Regulator - CGA-580
REB-4-FG	Boxed	Flowgauge CO2 Regulator - CGA-320
REB-3-FGD	Blister Pack	Mig Flowgauge Display Package - Argon, CGA-580
REB-7-5AC	Boxed	HVAC Testing Reg. - Nitrogen, CGA-580
REF-3-PGD	Blister Pack	Mig Flowmeter Display Package - Argon, CGA-580
REF-4-PGD	Blister Pack	Flowmeter Regulator with Gauge - Carbon Dioxide, CGA-320
RP30580	Blister Pack	FROG - Argon, CGA-580
RP22320	Blister Pack	FROG - CO2, CGA-320
BALLOON INFLATORS		
R125	Clamshell	Economy Style Balloon Inflator
RPB-6	Boxed	Helium Regulator - Wrench
RPB-6H	Boxed	Helium Regulator - Hand tight
RPB-6G	Boxed	Helium Regulator - Wrench Type - with Gauge
RPB-6HG	Boxed	Helium Reg. Tilt Valve, Hand tight with Gauge
WEEDBURNERS		
WB-101	Blister Pack	Hotspotter - Heavy Duty
WB-102	Blister Pack	Hotspotter - Medium Duty
AIR FITTINGS		
UC-KIT	Skin Pack	Universal Air Coupler Kit Female Coupler, 4 Plugs, Bushings & Tape
POS MARKETING MATERIAL		
B30011		4 X 4 WESTERN HEADER CARD
DISPLAY2		BROCHURE HOLDERS
B20386		QUICK CONNECT BROCHURES
B20387		FLASH ARRESTOR BROCHURES
B20405		HOTSPOTTER BROCHURES
B20406		HOSE REPAIR KIT BROCHURES
HOSEGUIDE		12 PAGE HOSE REPAIR GUIDE BOOKLET
WD-MAT		WESTERN BRASS ADAPTOR COUNTER MAT GUIDE



BD12



875 Bassett Road
Westlake, Ohio 44145-1142
440.871.2160
Fax: 440.835.8283
800.783.7890
www.westernenterprises.com