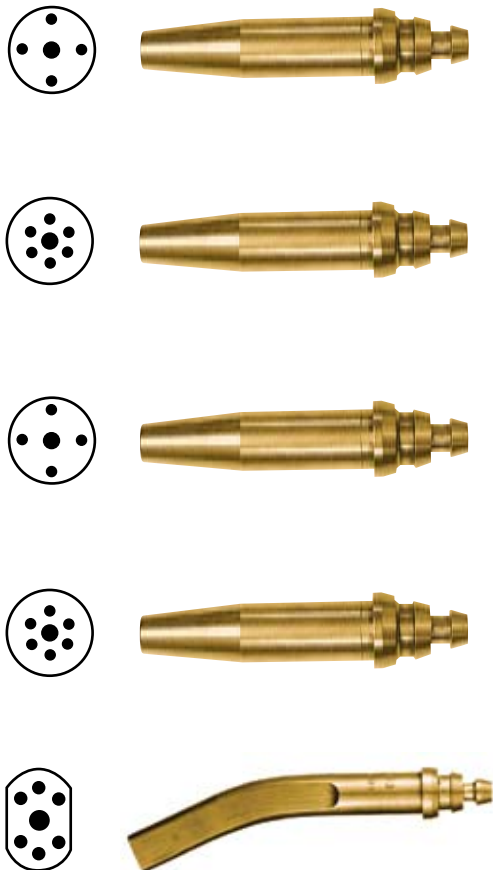


## Cutting Tips

### Cutting Tips – AIRCO / Concoa Acetylene - Oxygen



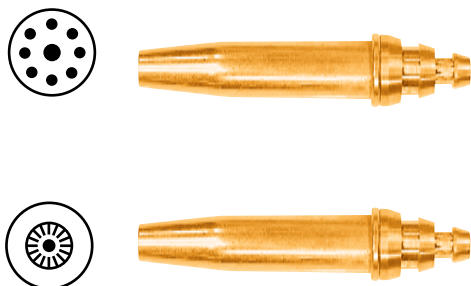
Part No.		Description
Style	Size	
124-	00, 0, 1, 2, 3	<ul style="list-style-type: none"> <li>Light preheat</li> <li>For general cutting operations</li> <li>Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches</li> </ul>
138-	00, 0, 1, 2, 3, 4	<ul style="list-style-type: none"> <li>Light preheat</li> <li>For general cutting operations with hand &amp; machine cutting apparatus</li> <li>Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches</li> </ul>
144-	00, 0, 1, 2, 3, 4, 5, 6, 7, 8, 10	<ul style="list-style-type: none"> <li>Medium preheat</li> <li>For general cutting operations with hand or machine cutting apparatus</li> <li>Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches</li> </ul>
164-	00, 0, 1, 2, 3, 4, 5, 6	<ul style="list-style-type: none"> <li>Very heavy preheat</li> <li>For general cutting, also for use in cutting cast iron and stainless steel</li> <li>Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches</li> </ul>
183-	6, 8, 10	<ul style="list-style-type: none"> <li>Gouging</li> <li>Medium to heavy preheat</li> <li>Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches</li> </ul>

### Propane or Natural Gas-Oxygen



Part No.		Description
Style	Size	
261-	0, 1, 2, 3, 4	<ul style="list-style-type: none"> <li>Heavy preheat, general cutting</li> <li>Two piece tip for hand cutting</li> <li>Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500, 2900 torches</li> </ul>

### MAPP-Propylene



Part No.		Description
Style	Size	
A-SP-	72, 68, 60, 56, 54, 52, 49, 44, 38	<ul style="list-style-type: none"> <li>General cutting</li> <li>Single piece</li> <li>Medium preheat</li> <li>Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches</li> </ul>
A-FS-	72, 68, 60, 56, 54, 52, 49, 44, 38	<ul style="list-style-type: none"> <li>Hand and machine cutting</li> <li>Two piece</li> <li>Medium to heavy preheat</li> <li>Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches</li> </ul>

### Cutting Tips – Harris Acetylene - Oxygen



Part No.		Description
Style	Size	
6290-	00, 0, 1, 2, 3, 4, 5, 6	<ul style="list-style-type: none"> <li>• Medium preheat, general hand cutting</li> <li>• Fits Harris 42-3, 62-3, 72, 72A, 73, 73A, 63-2, and 85 series torches.</li> </ul>

### Propane or Natural Gas-Oxygen



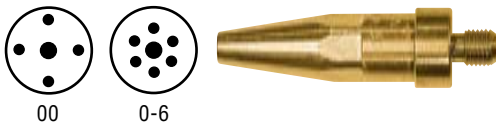
Part No.		Description
Style	Size	
6290NFF-	0, 1, 2, 3, 4, 5, 6	<ul style="list-style-type: none"> <li>• Heavy preheat, general cutting</li> <li>• Two piece</li> <li>• Fits Harris 42-3F, 49AF, 49F, 62-3F, 85, 72, 73, and 142 series torches.</li> </ul>
6290NX-	000, 00, 0, 1, 2, 3, 4, 5, 6	<ul style="list-style-type: none"> <li>• Medium preheat, general cutting</li> <li>• Two piece</li> <li>• Fits Harris 42-3F, 49AF, 49F, 62-3F, 85, 72, 73, 142 series torches.</li> </ul>
6290VVC-	000, 00, 0, 0.5, 1, 1.5, 2, 2.5, 3, 4, 5	<ul style="list-style-type: none"> <li>• High speed tips, for use in machine cutting</li> <li>• Two piece</li> <li>• Fits Harris 98-2 and 98-3 machine torches</li> </ul>

### Cutting Tips – Marquette Acetylene - Oxygen



Part No.		Description
Style	Size	
GW-6-	0, 1, 2, 3, 4	<ul style="list-style-type: none"> <li>• General hand and scrap cutting</li> <li>• Medium preheat</li> <li>• Fits Marquette 20-110 super jet and 21-110 star jet torches</li> </ul>

### Cutting Tips – MECO Acetylene - Oxygen



Part No.		Description
Style	Size	
LA-6-	00, 0, 1, 2, 3, 4, 5	<ul style="list-style-type: none"> <li>• General cutting</li> <li>• One piece</li> <li>• Fits Weldmaster, Cutmaster, SCA torches</li> </ul>

### Cutting Tips – Oxweld / Linde / L-Tec Acetylene - Oxygen



Part No.		Description
Style	Size	
1502-	2, 3, 4, 6, 8, 10, 12	<ul style="list-style-type: none"> <li>• Medium pre-heat</li> <li>• For hand or machine cutting</li> <li>• Fits CW-32, C-31, C-23, C-77 hand torches, C-37, C-39, C-58 machine torches</li> </ul>

## Cutting Tips

### Cutting Tips – Purox / Linde / L-Tec Acetylene - Oxygen



Part No.		Description
Style	Size	
4202-	2, 3, 4, 5, 7, 9, 11, 13	<ul style="list-style-type: none"> <li>• Medium preheat for general cutting</li> <li>• Fits CW-200, CW-202, Type E torches, C-205 machine torch, CW-300 torches</li> </ul>

### Propane or Natural Gas-Oxygen



Part No.		Description
Style	Size	
4213-14-	3, 4, 7	<ul style="list-style-type: none"> <li>• Two piece, general cutting</li> <li>• Complete tip, medium preheat</li> <li>• Fits CW-200, CW-202, Type E torches</li> <li>• For CW-300 torches</li> </ul>

### MAPP or FG-2 Oxygen



Part No.		Description
Style	Size	
P-FS-	60, 56, 52, 49	<ul style="list-style-type: none"> <li>• General cutting</li> <li>• Two piece tip standard speed</li> <li>• Fits CW-200, CW-202, Type E, CW-300 torches</li> </ul>

### Cutting Tips – Rexarc (Rego) Acetylene - Oxygen



Part No.		Description
Style	Size	
KX-6-	68, 53, 51, 46, 42, 35	<ul style="list-style-type: none"> <li>• General cutting</li> <li>• Light preheat</li> <li>• 4 Preheat holes</li> </ul>
KX-66-	62, 56	<ul style="list-style-type: none"> <li>• Medium preheat for hand cutting</li> <li>• Fits KXA, LXA, SXA, CWP 9000, 7000, 18000, 8720, 6808, 6912, 6916 torches</li> <li>• 6 Preheat holes</li> </ul>

### Cutting Tips – Smith Acetylene - Oxygen



Part No.		Description
Style	Size	
MC12-	00, 0, 1, 2, 3, 4	<ul style="list-style-type: none"> <li>• General cutting</li> <li>• Medium duty hand cutting</li> <li>• Fits cutting assemblies Pipeliner MC505, MC509, Airliner AC305, AC309</li> </ul>
SC12-	000, 00, 0, 1, 2, 3, 4, 5, 6, 7	<ul style="list-style-type: none"> <li>• For hand or machine cutting</li> <li>• MC409, SC170, SC200, SC220, SC270, SC360, SC720, SC730, SC770, SC771, SC780, SC780A, SC781A, SC782A, SC850, SC860, SC890 Series</li> <li>• Cutting torches Tuf-Tony, Silver Star (000-5)</li> </ul>

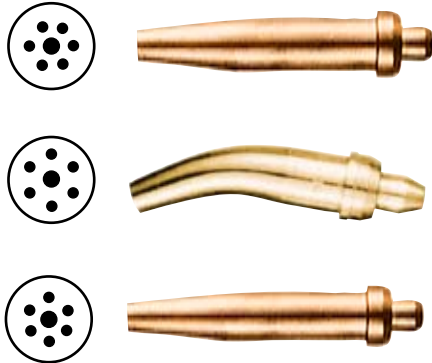
### Propane or Natural Gas-Oxygen



Part No.		Description
Style	Size	
SC50-	00, 0, 1, 2, 3, 4, 5, 6	<ul style="list-style-type: none"> <li>• Hand and machine cutting</li> <li>• Two piece</li> <li>• Heavy preheat</li> </ul>

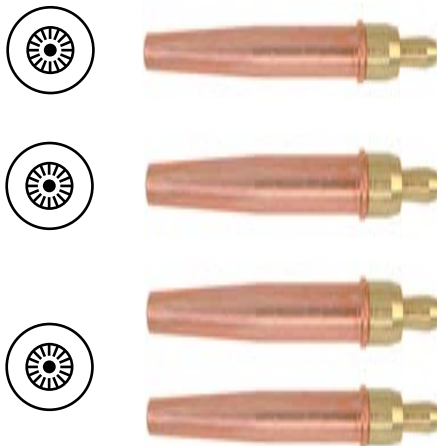
Cutting / Welding / Heating Tips

**Cutting Tips – Victor  
Acetylene - Oxygen**



Part No.		Description
Style	Size	
1-101-	000, 00, 0, 1, 2, 3, 4, 5, 6, 7, 8	<ul style="list-style-type: none"> <li>• Medium preheat for hand and machine cutting</li> <li>• Fits CA2460, CA1060, ST, SST, CA350, 1400C machine torches, Q2000</li> </ul>
1-118-	0, 2, 4, 6, 8	<ul style="list-style-type: none"> <li>• Gouging, scarfing, deseaming</li> <li>• Medium preheat</li> <li>• Fits CA2460, CA1060, ST, SST, CA350, 1400C machine torches, Q2000</li> </ul>
3-101-	000, 00, 0, 1, 2, 3, 4, 5	<ul style="list-style-type: none"> <li>• Medium preheat hand cutting</li> <li>• Fits CA1260, CA1350, C-1450, CA250 CA2060, CA2470, CST 800, C1400 torches.</li> </ul>

**Propane - Natural Gas**



Part No.		Description
Style	Size	
3-GPN-	0, 1, 2, 3, 4,	<ul style="list-style-type: none"> <li>• Two piece medium preheat series 3 tip</li> <li>• Fits CA1260, CA1350, C-1450, CA250 CA2060, CA2470, CST 800, C1400 torches</li> </ul>
GPN-	000, 00, 0, 1, 2, 3, 4, 5, 6, 7, 8	<ul style="list-style-type: none"> <li>• Two piece medium preheat for hand, machine and general cutting</li> <li>• Fits CA2450, CA1060, CAN 1060, ST, SST, STN machine torches</li> </ul>
2V-FS-	72, 68, 60, 56, 54, 52, 49, 44, 38	<ul style="list-style-type: none"> <li>• Medium and heavy preheat</li> <li>• Hand and machine cutting, two piece</li> <li>• Fits CA2450, CA1060, CAN 1060, ST, SST, STN machine torches</li> </ul>
3V-FS-	68, 60, 56, 52, 49	<ul style="list-style-type: none"> <li>• Medium preheat</li> <li>• Hand cutting, two piece</li> </ul>

**Welding Tips – Victor  
Acetylene - Oxygen**



Part No.		Description
Style	Size	
OW-	0, 1, 2, 3, 4, 5, 6	<ul style="list-style-type: none"> <li>• Complete nozzle (nozzle nut included)</li> <li>• General welding and preheating</li> <li>• Fits 300 series torches</li> </ul>
W-1-	00, 0, 1, 2, 3, 4, 5, 6, 7	<ul style="list-style-type: none"> <li>• Complete nozzle (nozzle nut included)</li> <li>• Long cone flame general welding &amp; brazing</li> <li>• Fits 100 series torches</li> </ul>

**Heating Tips – Victor  
Acetylene or Hydrogen - Oxygen**



Part No.		Description
Style	Size	
MFA-	6, 8	<ul style="list-style-type: none"> <li>• Multiframe nozzle for preheating and straightening</li> <li>• Fits 300 series torches</li> <li>* Use HD 310C torch with 3/8 hose, manifold if acetylene withdrawal rate exceeds 1/7 cylinder content per hour.</li> </ul>
MFA-1-	6, 8	<ul style="list-style-type: none"> <li>• Fits 100 series torches</li> </ul>

## Inflators

### 101 Series “Easy Tie”

Balloon inflator that not only fills the balloon but also seals and adds string. Inflation starts when you press against the black rubber tilt valve. The seal is made with the needle on the side of the inflator. The Spin-On is a hand-tight seal utilizing an “O” ring seal.



Part No. 0101

#### “Easy Tie” Regulator

Part No.	Description
0101	Regulator only
101G	Regulator w/ gauge
101S	Regulator w/ spin-on
101GS	Regulator w/ gauge and spin-on

### 102 Series Standard Inflator

A balloon inflator that fills the balloons by slipping a balloon over the black rubber tilt valve and pressing sideways until balloon is full.



Part No. 0102

#### Standard Balloon Inflator

Part No.	Description
0102	Inflator only
102G	Inflator w/ gauge
102S	Inflator w/ spin-on
102GS	Inflator w/ gauge and spin-on

### 103 Series CO<sub>2</sub> Regulator

A piston CO<sub>2</sub> regulator that will frost but hard to freeze as with a standard regulator.

- Refrigeration repairmen use CO<sub>2</sub> power for cleaning out coils
- Contractors use CO<sub>2</sub> power for nailing guns.
- Plumbers use CO<sub>2</sub> power to unclog and band pipe.
- Air power without generators or compressors.



Part No. 103-100

#### CO<sub>2</sub> Regulator

Part No.	Description
103-100	w/ 100 lb spring
103-120	w/ 120 lb spring
103-125	w/ 125 lb spring
103-150	w/ 150 lb spring
103-200	w/ 200 lb spring
103-30	w/ 30 lb spring
103-50	w/ 50 lb spring
103-70	w/ 70 lb spring
103-80	w/ 80 lb spring

### 215 Mylar Automatic and Latex Balloon Inflator

An inflator for latex balloons as well as mylar foil balloons. The mylar balloon filling side has the safety protection from over inflation.



Part No. 215GS

#### Mylar and Latex Balloon Combination

Part No.	Description
215G	Inflator w/ contents gauge
215GS	Inflator w/contents gauge and spin-on

### 125 Economy Rental

The 125 can be used with 20 cu./ft. cylinder in a horizontal position with the tilt valve pointed up. It can be used with any size cylinder. The unit has an “O” ring for a hand-tight seal. A wrench is not needed.

Part No. 0125- Latex helium balloon inflator



### Cone String

All-cotton general purpose string.

Part No. 0109



## Cutting, Welding and Brazing Torch Kit

- Oxygen/ MAPP®
- Hazardous material charges may apply.
- Kit includes burner wand, hose, oxygen regulator, fuel gas valve cylinder stand, MG9 16 oz. MAPP® Gas cylinder, OX9 1.1 cubic foot oxygen cylinder, spark lighter and 5 brazing/welding rods.

Part No. **OX2550KC**



## POWERCELL™ Fuel System

The Bernzomatic trigger start torch kit with POWERCELL™ fuel system packs all of the power and performance of a full size torch at half the size.

It is the most compact, lightweight and easy to use propane torch available anywhere.

Use it to solder or thaw copper pipe. Loosen rusted bolts. Strip paint.

- Hazardous material charges may apply.
- Large diameter flame is perfect for multiple applications.
- Adjustable flame control.
- Trigger start for easy lighting.
- Easy to reach tight spaces.

Part No. **TSPC8KC**- 6 pack

POWERCELL™ fuel cylinders

Part No. **OPC8**- 6 per carton



## Instant On Trigger Start Torches – Professional Series

Bernzomatic's finest torches feature instant on trigger start igniters and are regulated for cold weather use. All products are fast, easy to use and are considered ideal for all types of soldering and brazing projects. Product features include stainless steel burn tubes for compatibility with both MAPP® and propane gases.

### Trigger-Start Flame Control Torch

- MAPP®/ Propane
- Pressure regulated for optimal gas consumption, heat output and to burn upside down.
- Instant On-Off trigger improves fuel savings and convenience.
- Lock button keeps torch lit for finger-free use.
- Replaceable brass tip with swirl flame for maximum heat output.
- Pressure regulated for consistent performance.
- Adjustable flame control.

Part No. **TS7000T**



### Trigger-Start Torch

- MAPP®/ Propane
- Instant On-Off trigger increases fuel savings and convenience.
- Lock button keeps torch lit for finger-free use.
- Replaceable brass tip.
- Swirl flame for maximum heat output.
- Pressure regulated to burn upside down.

Part No. **TS4000T**



## High Temperature Torches – Soldering and Brazing

These torches operate with either MAPP® or propane gases.

### Swivel Head Brazing Torch

- MAPP®/ Propane
- Stainless steel burntube rotates 360 degrees.
- Pressure regulated for consistent performance.
- Trigger start igniter.
- Swirl action flame heats up work fast.

Part No. **TS839T**



### Solid Brass Brazing Torch Kit

- MAPP®/ Propane
- Pressure regulated torch unit.
- Burntip produces a turbo-charged swirl action flame for maximum heat output.
- Includes burner wand with swirl flame burntip, 4' hose and cylinder clip.

Part No. **JTH7**



### Mini Torch

- Produces a needlepoint flame for detail applications
- Interchangeable burntips, 4' hose, operates continuously for over 29 hours.
- Also includes torch stand, 2.4 mm solder tip, hot blower and hot knife.

Part No. **ST900D**



### Quickfire® Self-Igniting Torch Kit

Includes Quickfire® torch head, TX9 14.1 oz. propane cylinder.

- Hazardous material charges may apply.
- Ergonomically designed comfort grip.
- Regulated to burn upside down.
- Stainless steel burn tube and brass tip for durability.
- Adjustable flame control.

Part No. **TS3000KC**

Part No. **TS3000T**- torch head only



### Self-Igniting Propane Torch Head

- Stainless steel burn tube and brass tip for durability.
- Adjustable flame control.

Part No. **TS1500T**



## Torches / Torch Fuels

### Classic Brass Jet Torches

Legendary Bernzomatic Jet Torches feature solid brass construction with a patented jet venturi intake. This design ensures proper air/fuel mixture providing a hotter flame for faster work with greater fuel economy.

#### Jumbo Flame Torch

- Produces a high volume 1-1/4" flame for heavy duty soldering and heating jobs.
- Brass construction for durability.

Part No. JT680



#### Pencil Flame Torch

- Produces a 1/2" pencil point flame for detail work.
- Brass construction for durability.

Part No. JT681



### Classic Brass Utility Torches – Pencil Flame Torch Kits

Economical utility torches provide a consumer value option. Solid brass construction, general purpose utility flame, proven safety features, needle valve control and filtered orifice create a durable and dependable torch suitable for basic home use.

#### 7-Piece Kit

- Hazardous material charges may apply.
- Includes UL2317 torch head, TX9 14.1 oz. propane cylinder, 650 utility flame brass tip, 810 flame spreader, spark lighter, TX406 flint and molded plastic carry box.

Part No. UL125



#### 2-Piece Kit

- Includes UL2317 torch head and TX9 14.1 oz. propane cylinder.
- Hazardous material charges may apply.

Part No. UL100

Part No. UL2317- torch head only



### Micro Torches

Small butane powered torches for precision light soldering, polyfoam cutting and heating. Ideal tool for craft and hobby, electronic repair as well as many small household projects.

#### Micro Torch Kit

Part No. ST150K



#### Trigger Start Table Top Torch Kit

Part No. ST1100TS



### Torch Fuel Cylinder

- Disposable cylinders.
- 12 per carton.
- Hazardous material charges may apply.



16.0 ounce MAPP® gas  
Part No. OMG9



14.1 ounce propane gas  
Part No. OTX9



1.1 cubic foot oxygen  
Part No. 00X9



POWERCELL™ 8.0 ounce propane gas  
Part No. OPC8

## Welding and Cutting Outfits

### OXWELD® Trade Master Outfit

The OXWELD® Trade Master Outfit offers a superior heavy-duty combination of welding and cutting components. It handily accomplishes any craftsman's tasks and is equally versatile for contractors, general shops, maintenance, field applications, and trade schools. It is particularly popular among journeyman users.

**Part No. 18835-** OXWELD® Trade Master DLX 540/510



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range	Up to 3/8" (10 mm)	Up to 1" (25 mm)
Cutting range	Up to 1-1/2" (38 mm)	Up to 8" (203 mm)
Heating range	Up to 55 CFH acet. (81,000 BTU/hr.)	Up to 200 CFH acet. (294,000 BTU/hr.)

#### Outfit Contains:

Part No.	Outfit Contains
999045	W-400 Torch
999046	CW-400 Cutting attachment
15Z18	Cutting tip 1502, 1-1/2"
639441	Welding head #6
639443	Welding head #15
17263	Welding head #30
998775	Rosebud heating head #55 O-A
998323	Oxygen regulator R-76-75-540
998340	Acetylene regulator R-76-15-510

Outfit contains striker (790F34), goggles (17862), hose (22556).

### OXWELD® Trade Master "FG" Outfit

"FG" is for Fuel Gas. This Trade Master Outfit has all the outstanding features that are expected from the name OXWELD®. It is designed for any heating or cutting job that requires fuel gases other than acetylene.

**Part No. 22412-** OXWELD® Trade Master "FG" DLX 540/510



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range		Up to 1" (25 mm)
Cutting range	Up to 1-1/2" (38 mm)	Up to 4" (100 mm)
Heating range	Up to 70 0-FG (104,000 BTU/hr.)	Up to 200 0-FG (297,000 BTU/hr.)

#### Outfit Contains:

Part No.	Description
999045	W-400 Torch
999046	CW-400 Cutting attachment
638984	Cutting tip 1564, 1-1/2 in.
999225	Rosebud heating head #70 0-FG
998323	Oxygen regulator R-76-75-540
998331	Fuel gas regulator R-76-75-510

Outfit contains striker (790F34), goggles (17862), hose (22556).

### OXWELD® GT-450 Outfit

The GT-450 is a Trade Master Outfit that comes with one welding and one cutting tip. While the deluxe outfit also comes with hose, striker and goggles, all GT outfits keep your costs down and let you add the accessories you need for the job.

**Part No. 22461-** OXWELD® GT-450 STD 540/510

**Part No. 21992-** OXWELD® GT-450 DLX 540/510



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range		Up to 1" (25 mm)
Cutting range	Up to 1-1/2" (38 mm)	Up to 8" (203 mm)
Heating range		Up to 200 CFH acet. (294,000 BTU/hr.)

#### Outfit Contains:

Part No.	Description
999045	W-400 Torch
999046	CW-400 Cutting attachment
15Z18	Cutting tip 1502, 1-1/2 in.
998323	Oxygen regulator R-76-75-540
998370	Acetylene regulator R-76-15-510

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).





## Welding and Cutting Outfits

### OXWELD® GT-510 Outfit

The GT-510 is a GT-450 outfit in a durable, lockable toolbox and includes our Rosebud Jr. heating head.

Part No. 0558005108- OXWELD® GT-510



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range		Up to 1" (25 mm)
Cutting range	Up to 1-1/2" (38 mm)	Up to 8" (203 mm)
Heating range	Up to 30 CFH acet. (44,000 BTU/hr.)	Up to 200 CFH acet. (294,000 BTU/hr.)

#### Outfit Contains:

Part No.	Description
999045	W-400 Torch
999046	CW-400 Cutting attachment
15Z18	Cutting tip 1502, 1-1/2"
998323	Oxygen regulator R-76-75-540
998370	Acetylene regulator R-76-15-510
0558006160	Rosebud Jr. heating head

Outfit contains striker (790F34), goggles (17862), hose (22556).

### OXWELD® 400/PUROX® 300 FlameMaster Outfits

The FlameMaster outfits are ideal for all flame applications. Included in the outfit are a torch, cutting attachment, and heating head, as well as a wide range of welding and cutting tips (see chart). Operates with medium pressure acetylene. Optional tips available for other fuel gases.

Part No. 22498- OXWELD® 400

Part No. 22497- PUROX® 300



MADE IN USA

Range	OXWELD® 400	PUROX® 300
Welding range	Up to 1/8" (3 mm)	Up to 1/8" (3 mm)
Cutting range	Up to 8" (203 mm)	Up to 4" (102 mm)
Heating range	81,000 BTU/hr.	81,000 BTU/hr.

#### Outfit Contains:

OXWELD® 400	PUROX® 300	Description
999045	999339	W-400/W-300 Torch
999046	999340	CW-400/CW-300 Cutting attach.
998775	998775	#55 Rosebud
639439	639439	Welding head #2
639441	639441	Welding head #6
639442	639442	Welding head #9
08Z67		Cutting tip 1502, 1/4"
15Z17		Cutting tip 1502, 1/2"
15Z18		Cutting tip 1502, 1-1/2"
15Z19		Cutting tip 1502, 4"
15Z20		Cutting tip 1502, 8"
	638869	Cutting tip 4202, 1/8"
	16K08	Cutting tip 4202, 1/4"
	16K09	Cutting tip 4202, 1/2"
	16K10	Cutting tip 4202, 1-1/2"
	16K11	Cutting tip 4202, 4"

### PUROX® Trade Master Outfit

Same as the heavy-duty OXWELD® Trade Master, but takes PUROX® (4200 Series) cutting tips. This top-of-the-line outfit contains components built for rugged use and offers heavy-duty performance in a wide range of industrial, construction, maintenance and other metal working applications.

Part No. 603370- PUROX® Trade Master DLX 540/300

Part No. 999995- PUROX® Trade Master DLX 540/510



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range	Up to 3/8" (10 mm)	Up to 1" (25 mm)
Cutting range	Up to 1-1/2" (38 mm)	Up to 8" (203 mm)
Heating range	Up to 55 CFH acet. (81,000 BTU/hr.)	Up to 200 CFH acet. (294,000 BTU/hr.)

#### Outfit Contains:

Part No.	Description
999339	W-300 Torch
999340	CW-300 Cutting attachment
16K10	Cutting tip 4202, 1-1/2 in.
639441	Welding head #6
639443	Welding head #15
17263	Welding head #30
998775	Rosebud heating head #55 O-A
998323	Oxygen regulator R-76-75-540
998328	Acetylene regulator R-76-15-300 or
998370	Acetylene regulator R-76-15-510

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).

## Welding and Cutting Outfits

### PUROX® Metal Master Outfit

The same heavy-duty welding torch and cutting attachment that is in the PUROX® Trade Master Outfit is also in the Metal Master. Special features include 2-1/2" gauges on the R-72 regulators and ease-on oxygen valves in the CW-300 cutting attachment. Smooth, dependable performance over a considerable operating range makes this an excellent choice for general purpose welding, heating and cutting.

**Part No. 22450-** PUROX® Metal Master STD 540/510

**Part No. 998691-** PUROX® Metal Master DLX 540/510



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range	Up to 3/8" (10 mm)	Up to 1" (25 mm)
Cutting range	Up to 1-1/2" (38 mm)	Up to 8" (203 mm)
Heating range		Up to 200 CFH acet. (294,000 BTU/hr.)

#### Outfit Contains:

Part No.	Description
999339	W-300 Torch
999340	CW-300 Cutting attachment
16K10	Cutting Tip 4202, 1-1/2"
639441	Welding head #6
639443	Welding head #15
17263	Welding head #30
21524	Oxygen regulator R-72-75-540
21525	Acetylene regulator R-72-15-510

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).

### PUROX® GT-350 Outfit

The GT-350 is a Metal Master Outfit with one welding and one cutting tip. While the deluxe outfit also comes with hose, striker and goggles, all GT outfits keep your costs down and let you add the accessories you need for the job.

**Part No. 21778-** PUROX® GT-350 DLX 540/300

**Part No. 22459-** PUROX® GT-350 STD 540/510

**Part No. 21777-** PUROX® GT-350 DLX 540/510



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range		Up to 1" (25 mm)
Cutting range	Up to 1-1/2" (38 mm)	Up to 8" (203 mm)
Heating range		Up to 200 CFH acetylene (294,000 BTU/hr.)

#### Outfit Contains:

Part No.	Description
999339	W-300 Torch
999340	CW-300 Cutting attachment
16K10	Cutting tip 4202, 1-1/2"
21524	Oxygen regulator R-72-75-540
21526	Acetylene regulator R-72-15-300
21525	Acetylene regulator R-72-15-510 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">OR</span>

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).

### PUROX® GT-510 Outfit

The GT-510 is a GT-350 outfit in a durable, lockable toolbox and includes our Rosebud Jr. heating head.

**Part No. 0558005107-** PUROX® GT-510



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range		Up to 1" (25 mm)
Cutting range	Up to 1-1/2" (38 mm)	Up to 8" (203 mm)
Heating range	Up to 30 CFH acetylene (44,000 BTU/hr.)	Up to 200 CFH acetylene (294,000 BTU/hr.)

#### Outfit Contains:

Part No.	Description
999339	W-300 Torch
999340	CW-300 Cutting attachment
16K10	Cutting tip 4202, 1-1/2"
21524	Oxygen regulator R-72-75-540
21525	Acetylene regulator R-72-15-510
0558006160	Rosebud Jr. heating head

Outfit contains striker (790F34), goggles (17862), hose (22556).



## Welding and Cutting Outfits

### PUROX® “E” Master Outfit

The “E” Master is a prime performer for contractors, scrap burners, steel fabricators, structural iron workers, foundry men and other industrial users. In addition to a full range of normal cutting operations, its usefulness extends to pad washing, rivet cutting, gouging or grooving, piercing and heating, plus specialized applications.

**Part No. 22448-** PUROX® “E” Master STD 540/510  
**Part No. 999994-** PUROX® “E” Master DLX 540/510



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Cutting range	Up to 4" (102 mm)	Up to 12" (305 mm)

#### Outfit Contains:

Part No.	Description
04L06	“E” Torch, 90°
16K09	Cutting tip 4202, 1/2"
16K10	Cutting tip 4202, 1-1/2"
16K11	Cutting tip 4202, 4"
998324	Oxygen regulator R-76-150-540
998370	Acetylene regulator R-76-15-510

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).

### PREST-O-LITE® GT-200

With lightweight and easily handled components, the Precision Master Outfit is the best selection for professional jewelry work, metal sculpturing, plus light-duty repair and maintenance work on aircraft frames, auto bodies and mufflers. Sold with or without tote.

**Part No. 0558005266-** PREST-O-LITE® GT-200 DLX 540/510  
**Part No. 0558005267-** PREST-O-LITE® GT-200 DLX “B”  
**Part No. 0558005268-** PREST-O-LITE® GT-200 DLX “MC”  
**Part No. 0558005269-** Prest-O-Pak GT-200 DLX w/ tote



MADE IN USA

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range	Up to 3/16" (5 mm)	Up to 3/8" (10 mm)
Cutting range	Up to 1/2" (13 mm)	Up to 2" (51 mm)
Heating range	Up to 15 CFH acetylene (22,000 BTU/hr.)	Up to 40 CFH acetylene (58,667 BTU/hr.)

#### Outfit Contains:

Part No.	Description
999805	W-200 Torch
05L20	CW-200 Cutting attachment
16K09	Cutting tip 4202 1/2"
18564	Oxygen regulator R-22-75-540A
998765	Acetylene regulator R-22-15-510 or
05X01	Acetylene regulator R-22-15-520 “B” or
05X02	Acetylene regulator R-22-15-200 “MC”
Part No.	Accessories
0558003632	Tote

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).

### Precision Master Outfit

With lightweight and easily handled components, the Precision Master Outfit is the best selection for professional jewelry work, metal sculpturing, plus light-duty repair and maintenance work on aircraft frames, auto bodies and mufflers. Sold with or without tote and tanks.

**Part No. 600500-** Prest-O-Pak Precision Master DLX “MC” w/ tote  
**Part No. 22455-** Prest-O-Pak Precision Master DLX “MC” tote w/ tanks



MADE IN USA

#### Outfit Contains:

Part No.	Description
999805	W-200 Torch
05L20	CW-200 Cutting attachment
16K09	Cutting tip 4202 1/2"
06L48	Welding head #4
06L49	Welding head #6
06L50	Welding head #9
18564	Oxygen regulator R-22-75-540A
05X02	Acetylene regulator R-22-15-200 “MC”
Part No.	Accessories
0558003632	Tote
22457	Oxygen tank “R”, 20 Cu. Ft.
22456	Acetylene tank “MC”, 10 Cu. Ft.

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range	Up to 3/16 in. (5 mm)	Up to 3/8 in. (10 mm)
Cutting range	Up to 1/2 in. (13 mm)	Up to 2 in. (51 mm)
Heating range	Up to 15 CFH acetylene (22,000 BTU/hr.)	Up to 40 CFH acetylene (58,667 BTU/hr.)

## Welding and Cutting Outfits

### Precision Master II Outfit

With lightweight and easily handled components, the Precision Master Outfit is the best selection for professional jewelry work, metal sculpturing, plus light-duty repair and maintenance work on aircraft frames, auto bodies and mufflers. Sold with or without tote and tanks.

**Part No. 0558003742-** Precision Master DLX "MC" w/ tote  
**Part No. 0558003743-** Precision Master DLX "MC" tote w/ tanks

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range	Up to 3/16" (5 mm)	Up to 3/8" (10 mm)
Cutting range	Up to 1/2" (13 mm)	Up to 2" (51 mm)
Heating range	Up to 15 CFH acet. (22,000 BTU/hr.)	Up to 40 CFH acet. (58,667 BTU/hr.)



#### Outfit Contains:

Part No.	Description
99805	W-200 Torch
05L20	CW-200 Cutting attachment
16K09	Cutting tip 4202 1/2"
06L49	Welding head #6
22554	Oxygen regulator R-522-75-540A
22555	Acetylene regulator R-522-15-510

#### Part No. 0558003743 also Contains:

Part No.	Description
22457	Oxygen tank "R", 20 Cu. Ft.
22456	Acetylene tank "MC", 10 Cu. Ft.
954880	POL Label

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).

### PREST-O-LITE® Maintenance Outfit

The PREST-O-LITE® Maintenance Outfit includes the lightweight W-200 aircraft-style torch handle with replaceable "A" size inlets and front mounted throttle valves. It has everything you need for brazing, soldering and cutting. The Maintenance Outfit can also be ordered as a Prest-O-Pak with tote or tote and tanks.

**Part No. 639103-** PREST-O-LITE® DLX Maintenance Outfit "B"  
**Part No. 639130-** PREST-O-LITE® DLX Maintenance Outfit "MC"  
**Part No. 600499-** Prest-O-Pak DLX Maintenance Outfit "MC" w/ tote  
**Part No. 22526-** Prest-O-Pak DLX Maintenance Outfit "MC" Tote w/ tanks



Range	Outfit as furnished	Outfit with heads and nozzles
Welding Range	Up to 1/16 in. (1.5 mm)	Up to 3/8 in. (10 mm)
Cutting Range	Up to 1/2 in. (13 mm)	Up to 2 in. (50 mm)
Heating Range	Up to 6 CFH acet. (8,850 BTU/hr.)	Up to 40 CFH acet. (58,667 BTU/hr.)

#### Outfit Contains:

Part No.	Description
999805	W-200 Torch
05L20	CW-200 cutting attachment
16K09	Cutting Tip 4202, 1/2 in.
639040	Air-Gas adaptor
10X23	Air-Gas soldering t #3
06L49	Brazing tip #6
18564	Oxygen regulator R-22-75-540A
05X01	Acetylene regulator R-22-15-520 "B" or
05X02	Acetylene regulator R-22-15-200 "MC"

#### Accessories

Part No.	Description
0558003632	Tote
22457	Oxygen tank "R", 20 Cu. Ft.
22456	Acetylene tank "MC", 10 Cu. Ft.

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).

### PREST-O-LITE® Brazing Outfit

The Brazing Outfit features the W-200 torch handle with piston type connection for hand tightening welding and soldering heads. Patented explosion protection is built in to each regulator. The Brazing Outfit can also be ordered as a Prest-O-Pak with tote or tote and tanks.

**Part No. 638593-** PREST-O-LITE® DLX Brazing Outfit "B" 638593  
**Part No. 639021-** PREST-O-LITE® DLX Brazing Outfit "MC"  
**Part No. 600498-** Prest-O-Pak DLX Brazing Outfit "MC" w/ tote  
**Part No. 22527-** Prest-O-Pak DLX Brazing Outfit "MC" tote w/ tanks

Range	Outfit as furnished	Outfit with optional heads and nozzles
Welding range	Up to 1/8" (3 mm)	Up to 3/8" (10 mm)
Heating range	Up to 9 CFH acet. (13,300 BTU/hr.)	Up to 40 CFH acet. (58,667 BTU/hr.)



#### Outfit Contains:

Part No.	Outfits contain
999805	W-200 Torch
06L48	Welding head #4
06L50	Welding head #9
18564	Oxygen regulator R-22-75-540A
05X01	Acetylene regulator R-22-15-510 "B" <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">or</span>
05X02	Acetylene regulator R-22-15-200 "MC"

#### Accessories

Part No.	Outfits contain
0558003632	Tote
22457	Oxygen tank "R", 20 Cu. Ft.
22456	Acetylene tank "MC", 10 Cu. Ft.

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).



## PREST-O-LITE® Air-Acetylene Swirljet® Kits

### X-3B POL Kit

Flexible kit bronze brazes light/medium gauge steel.

- Soft solders to 4" (100 mm).
- Silver brazes to 2" (50 mm).
- "B" tank connection.

**Part No. 21954**



Part No.	Kit Contains
04X36	R-411B (CGA520) Regulator
21702	POL QD#1 Torch
21703	QD-SJ-3A Tip
21704	QD-SJ-4A Tip
501F12	Hose 12-1/2' x 3/16" A-A

### X-4B POL Kit

Higher capacity kit bronze brazes medium/heavy gauge steel.

- Soft solders to 6" (150 mm).
- Silver brazes to 4" (100 mm).
- "B" tank connection.

**Part No. 21955**



Part No.	Kit Contains
04X36	R-411B (CGA520) Regulator
21702	POL QD#1 Torch
21704	QD-SJ-4A Tip
21705	QD-SJ-5A Tip
501F12	Hose 12-1/2' x 3/16" A-A

### X-5B POL Kit

Flexible lighter duty kit.

- Soft solders to 2" (50 mm).
- Silver brazes to 1" (25 mm).
- "B" tank connection.

**Part No. 21956**



Part No.	Kit Contains
04X36	R-411B (CGA520) Regulator
21702	POL QD#1 Torch
21703	QD-SJ-3A Tip
501F12	Hose 12-1/2' x 3/16" A-A
790F34	Friction lighter

### X-6MC POL Kit

All purpose kit for using "MC" tank.

- Soft solders to 2" (50 mm).
- Silver brazes to 1" (25 mm).
- "MC" tank connection.

**Part No. 21957**



Part No.	Kit Contains
04X37	R-411MC (CGA200) Regulator
21702	POL QD#1 Torch
21703	QD-SJ-3A Tip
21704	QD-SJ-4A Tip
501F12	Hose 12-1/2' x 3/16" A-A



### PZ-5A "MC" Kit

Self-Lighting Tip.

- Soft solders to 2" (50 mm).
- Silver brazes to 1" (25 mm).
- "MC" tank connection.

**Part No. 0558003175**



Part No.	Kit Contains
04X37	R-411MC (CGA200) Regulator
21702	POL QD#1 Torch
22575	PZ5A Tip
501F12	Hose 12-1/2' x 3/16" A-A
0558003175	Kit Available with R-411B Reg

### LP-1 POL Kit - LP

- Soft solders to 6" (150 mm).
- Silver brazes to 4" (100 mm).

**Part No. 21951**



Part No.	Kit Contains
05X38	R-416 LPG Regulator
21702	POL QD#1 Torch
21707	QD-SJ-4LPG Tip
21709	QD-SJ-6LPG Tip
90F50	Hose 12-1/2' x 3/16", A-A fuel gas

### LP-2 POL Kit - LP

For jobbing and smaller work.

- Soft solders to 2-1/2" (60 mm).
- Silver brazes to 1-1/4" (30 mm).

**Part No. 21952**



Part No.	Kit Contains
05X38	R-416 LPG Regulator
21702	POL QD#1 Torch
21706	QD-SJ-3LPG Tip
21708	QD-SJ-5LPG Tip
90F50	Hose 12-1/2' x 3/16", A-A fuel gas

### LP-3 POL Kit - LP

- Soft solders to 4" (100 mm).
- Silver brazes to 2" (50 mm).

**Part No. 21953**



Part No.	Kit Contains
05X38	R-416 LPG Regulator
21702	POL QD#1 Torch
21707	QD-SJ-4LPG Tip
90F50	Hose 12-1/2' x 3/16", A-A fuel gas
790F34	Friction lighter

## Torches, Heads & Cutting Attachments

### OXWELD® CW-23 Cutting Attachment

Cutting Range.....1/16 to 8"  
Cutting Nozzles.....1500 series

CW-23/FG Cutting Attachment  
**Part No. 998258** (90° Head\*\*)

CW-23 Cutting Attachment  
**Part No. 01X36** (90° Head\*)  
**Part No. 01X35** (75° Head\*)

\*For acetylene

\*\*For fuel gases other than acetylene



### OXWELD® W-17 Torch

Welding Range.....1/32 to 1"  
Heating Range.....4 to 250 CFH acetylene  
(5900 to 368,000 BTU/hr.)

**Part No. 4250**



### W-17 Single Flame

Acetylene Welding/Heating Heads

Steel Thickness Inches	Complete Head Assembly	
	Size	Part No.
1/32 - 1/16	4A	639865
1/16 - 3/32	6A	639866
3/32 - 1/8	9A	639867
1/8 - 3/16	12A	17270
3/16 - 1/4	15A	639868
1/4 - 1/2	30A	639869
1/2 - 3/4	55A	998101
3/4 - 1	70A	998102
Heating	100A	10X03
	150A	10X05
	250A	10X07



### W-17 Heating Heads

Standard Multiflame

Heating Head Assembly		No. of Flames	Avg. Heat Output BTU/hr.
Size	Part No.		
<b>For Acetylene Use</b>			
70A	998047	7	102,000
100A	11X22	8	147,000
150A	11X24	12	221,000
250A	11X26	20	368,000
<b>For Fuel Gases Other Than Acetylene</b>			
70FG	998038	7	102,000
100FG	11X32	8	147,000
150FG	11X34	12	221,000
250FG	11X36	20	368,000



### W-17 Rosebud Style

Multiflame Heating Heads

Heating Head Assembly		No. of Flames	Avg. Heat Output BTU/hr.
Size	Part No.		
<b>For Acetylene Use</b>			
55 O-A	998819	9	81,000
70 O-A	998820	9	102,000
100 O-A	998821	13	147,000
200 O-A	998822	16	221,000
250 O-A	998823	16	368,000
<b>For Fuel Gases Other Than Acetylene</b>			
100 O-FG	999233	8	147,000
200 O-FG	999234	21	221,000

### OXWELD® CW-500 Cutting Attachment

Cutting Range using acetylene..1/16" to 8"  
Cutting Range using other  
fuel gases .....1/16" to 4"  
Cutting Nozzles.....1500 series

W-500 Cutting Attachment  
**Part No. 999220** (90° Head)



### OXWELD® W-500 Torch

Welding Range.....Thin gauge to 1"  
Heating Range.....up to 300 CFH acetylene  
(441,000 BTU/hr.)

Acetylene and other fuel gases may be used.  
A No. 500 Rosebud heating head (see below) is available.

W-500 Welding Torch  
**Part No. 999079**



### W-500 Single Flame

Acetylene Welding Heads

Steel Thickness Inches	Complete Head Assembly	
	Size	Part No.
25 ga. - 3/32	4A	639880
1/32 - 1/16	6A	639881
1/16 - 1/8	9A	639882
1/8 - 3/16	15A	639883
3/16 - 3/8	30A	20336
5/8 - 1	70A	998116



### W-500 Heating Heads

Standard Multiflame

Heating Head Assembly		No. of Flames	Avg. Heat Output BTU/hr.
Size	Part No.		
<b>For Oxy-Acetylene Use</b>			
100A	10X86	8	147,000
150A	10X88	12	220,000
300A	10X91	24	441,000
<b>For Oxy-Fuel Gas Use - FG-2, Propane, Natural Gas, etc.</b>			
100FG	11X03	8	147,000
300FG	11X08	24	441,000



### W-500 Rosebud Style

Multiflame Heating Heads

Heating Head Assembly		No. of Flames	Avg. Heat Output BTU/hr.
Size	Part No.		
<b>For Oxy-Acetylene Use</b>			
70 O-A	998834	9	103,000
100 O-A	998835	13	147,000
200 O-A	998836	16	294,000
250 O-A	998837	16	368,000
<b>For Oxy-Fuel Gas Use - FG-2, Propane, Natural Gas, etc.</b>			
200 O-FG	999236	24	297,000
500 O-FG	999088	29	735,000



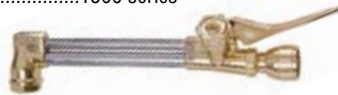
## Torches, Heads & Cutting Attachments

### OXWELD® CW-400 Cutting Attachment

Cutting Range using acetylene .....1/16" to 8"  
Cutting Range using other fuel gases.....1/16" to 4"  
Cutting Nozzles (CW-400).....1500 series



CW-400 Cutting Attachment  
Part No. 999046 (90° Head)  
Part No. 999622 (75° Head)



### PUROX® CW-300 Cutting Attachment

Cutting Range using acetylene.....1/16" to 8"  
Cutting Range using other fuel gases.....1/16" to 4"  
Cutting Nozzles (CW-300).....4200 series



CW-300 Cutting Attachment  
Part No. 999340 (90° Head)  
Part No. 999341 (75° Head)



### OXWELD® W-400 Torch

Welding Range.....Thin gauge to over 1"  
Heating Range.....1 to 200 CFH acetylene

Equivalent to approximately 1400 to 300,000 BTU/hr.  
Acetylene and other fuel gases may be used.

W-400 Welding Torch  
Part No. 999045



### PUROX® W-300 Torch

Welding Range.....Thin gauge to over 1"  
Heating Range.....1 to 200 CFH acetylene  
Equivalent to approximately 1400 to 300,000 BTU/hr.  
Acetylene and other fuel gases may be used.

W-300 Welding Torch  
Part No. 999339



### W-400/300 Single Flame

Acetylene Standard Welding Heads

Steel Thickness Inches	Complete Head Assembly	
	Size	Part No.
to 32 ga.	1A	639438
32-25 ga.	2A	639439
25 ga. - 1/32	4A	639440
1/32 - 1/16	6A	639441
1/16 - 1/8	9A	639442
1/8 - 3/16	12A	17268
3/16 - 1/4	15A	639443
1/4 - 3/8	30A	17263
3/8 - 5/8	55A	998085
5/8 - 1	70A	998086
over 1	100A	998087

### W-400/300 Heating Heads

Standard Multiflame

Complete Head Assembly		No. of Flames	Avg. Heat Output BTU/hr.
Size	Part No.		
<b>For Acetylene Use</b>			
55A	998089	7	81,000
70A	998090		102,000
100A	998091	8	147,000
150A	998092	12	221,000
<b>For Oxy-Fuel Gas Use - FG-2, Propane, Natural Gas, etc.</b>			
70FG	998093	7	104,000
100FG	998278	8	147,000
150FG	998276	12	220,000

### W-400/300 Rosebud

Multiflame Heating Heads

Complete Head Assembly		No. of Flames	Avg. Heat Output BTU/hr.
Size	Part No.		
<b>For Acetylene Use</b>			
15 O-A	998773	6	22,000
30 O-A	998774		44,000
Rosebud Jr.	0558006160		44,000
55 O-A	998775	9	81,000
70 O-A	998776		103,000
100 O-A	998777	13	147,000
200 O-A	998778	16	294,000
<b>For Oxy-Fuel Gas Use - FG-2, Propane, Natural Gas, etc.</b>			
70 O-FG	999225	8	104,000
100 O-FG	999228		148,000
200 O-FG	999231		297,000

### PREST-O-LITE® CW-200 Cutting Attachment

Cutting Range.....1/16" to 2"  
Cutting Nozzles.....4200 Series

CW-200 Cutting Attachment  
Part No. 05L20 (90° Head)



### PREST-O-LITE® W-200 Torch

Welding Range.....Thin gauge to 3/8"  
Heating Range.....1 to 40 CFH acetylene (1470 to 58,667 BTU/hr.)

W-200 Welding Torch  
Part No. 999805



### W-200 Single Flame

Acetylene Welding Heads

Steel Thickness Inches	Complete Head Assembly	
	Size	Part No.
to 32 ga.	1	06L46
32 - 25 ga.	2	06L47
25 ga. - 1/32	4	06L48
1/32 - 1/16	6	06L49
1/16 - 1/8	9	06L50
1/8 - 3/16	15	06L52
3/16 - 3/8	30	06L54

### W-200 Rosebud

Acetylene Heating Heads

Complete Head Assembly		No. of Flames	Avg. Heat Output BTU/hr.
Size	Part No.		
15	07L13	8	22,000
30	07L15		44,000
40	07L17		59,000

### W-200 Twin-Flame

Complete Head Assembly		No. of Flames	Avg. Heat Output BTU/hr.
Size	Part No.		
40	07L18 (acet.)	2	22,000
40	07L19 (F.G.)	2	44,000

## PREST-O-LITE® Swirljet® Tips & Torch Handles

### Swirljet® Tips & Torch Handle

These Swirljet® tips are designed to be used with the PREST-O-LITE® #1 Quick Disconnect torch handle. They run quieter, cooler and give better heat transfer than other comparable tips.



Part No. 21702



Part No. 19505 Tip Adaptor to connect POL tips to Quick Disconnect torch handles

Part No.	Description
21702	POL #1 Quick disconnect torch handle

### PZ-5A Spark Lighting Tip Acetylene/Fuel Gas

- One-handed operation.
- No Need for a separate sparklighter.
- Swirl Flame for maximum heat transfer.



#### Air Acetylene, Swirl Flame, Auto-Ignite Tips

Part No.	Quick Connect Model No.	Replacement Tip End	Part No.	Copper Tubing Size Capacity @ 15 PSIG Acetylene		
				Soft Solder	Silver Solder	Gas Flow (SCFH)
22602	PZ-3A	PZ-3ATR	22605	1/4" - 1"	1/8" - 1/2"	3.5
22603	PZ-4A	PZ-4ATR	22606	3/4" - 1-1/2"	1/4" - 3/4"	5.1
22575	PZ-5A	PZ-5ATR	22607	1" - 2"	1/2" - 1"	6.8
22604	PZ-6A	PZ-6ATR	22608	2" - 4"	1" - 2"	9.1



#### Fuel Gas, Swirl Flame, Auto-Ignite Tips

Part No.	Quick Connect Model No.	Replacement Tip End	Part No.	Copper Tubing Size Capacity using 25 ~ 40 PSIG			
				Propane Gas		MAPP® Gas	
				Soft Solder	Silver Solder	Soft Solder	Silver Solder
22609	PZ-3P	PZ-3PTR	22612	1/4" - 1"	1/8" - 1/2"	1/4" - 1-1/2"	1/4" - 1/2"
22610	PZ-4P	PZ-4PTR	22613	3/4" - 1-1/2"	1/4" - 3/4"	1/4" - 2-1/2"	1/4" - 1-1/4"
22611	PZ-5P	PZ-5PTR	22614	1-1/2" - 2-1/2"	1/2" - 1-1/4"	1" - 4"	1/2" - 2"

#### Acetylene Swirljet® Tips



Part No.	Description	Fuel	Pressure PSIG	Gas Flow CFH	Copper Tubing Size & Capacity Soft Solder	Silver Braze	Replacement Mixer Nozzle
22591	QD SJ-OA	Acetylene	13	2	1/8" - 1/2"	1/8" - 1/4"	0558001906
22592	QD SJ-1A			3.6	1/4" - 1/2"	1/8" - 1/2"	0558001907
22593	QD SJ-2A			5.7	3/4" - 1-1/2"	1/4" - 3/4"	0558001908
21703	QD SJ-3A			7.2	up to 2"	1/2" - 1"	21481
21704	QD SJ-4A			12.8	2" - 4"	1" - 2"	21482
21705	QD SJ-5A			33.8	4" - 6"	1" - 4"	21483

#### Fuel Gas Swirljet® Tips



Part No.	Description	Model	Pressure Fuel	Gas Flow PSIG	Copper Tubing Size & Capacity			
					CFH	Soft Solder	Silver Braze	Mixer Nozzle
21706	QD SJ-3LPG	T-3	FG-2*	32	1.5	1/4" - 1-1/2"	1/4" - 1/2"	21478
21707	QD SJ-4LPG	T-4			3.1	1/4" - 2-1/2"	1/4" - 1-1/4"	21479
21708	QD SJ-5LPG	T-5			8.0	1" - 4"	1/2" - 2"	21480
21709	QD SJ-6LPG	T-6			16.2	1" - 6"	3/4" - 4"	21482

\* These tips can also be used with Propane and MAPP Gas (refer to instruction literature for appropriate pressures and flows for these gases).

Filter Screw Assembly - Part No. 998311 (for all tips - except #5 Acetylene uses screw assembly Part No. 998312)

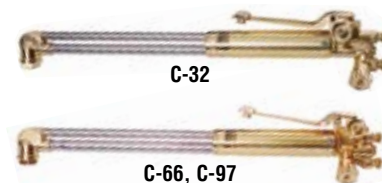




## Hand Cutting Torches

### OXWELD® C-32, C-66

- Floating mixers (C-32) or injectors (C-66) with precise clearance at mixing point – for uniform mixing of oxygen and fuel gas and for optimum flashback resistance.
- Handle special operations – pad washing, rivet head washing, rivet shank piercing, plate gouging and grooving.



### OXWELD® C-32

- Cuts up to 12" steel with acetylene, 3" with any other commercial fuel gases.
- Optional mixer assembly (Part No. 01Y67) can be used to extend cutting range to 12" with other fuel gases.

### OXWELD® C-66

- Cuts steel up to 20" thick.
- Injector operates with any low and medium pressure fuel gas except acetylene.

### OXWELD® C-97

- Cuts up to 12" steel with acetylene, 16" with any other fuel gases.



Part No.	Description
<b>C-32 Cutting Torch (Std. 21" model)</b>	
01X23	w/75° head for all fuel gases
01X26	w/90° head for all fuel gases
<b>C-66 Cutting Torch (Std. 21" model)</b>	
427X70	w/75° head, LPHC injector
427X71	w/90° head, LPHC injector
<b>C-97 Cutting Torch (Std. 21" model)</b>	
22053	w/75° head
22054	w/90° head

### Type "E", C-77

- Ease-on control of cutting oxygen – ideal valve action for pierce starts, gouging, and rivet busting.
- Performs efficiently with any fuel gas.
- Front, bottom-mounted cutting oxygen lever – for convenient handling.
- Heat resistant nickel-silver alloy tubes – provide rigidity and high corrosion resistance.



#### Cutting Capacity:

Acetylene and Other Fuel Gases.....up to 12" (305 mm)

#### Nozzles:

Type "E".....4200 series  
C-77.....1500 series



Part No.	Description
<b>PUROX® Type "E" Cutting Torch*</b>	
04L04	21" w/75° head for acetylene
04L06	21" w/90° head for acetylene
04L16	21" w/180° head for acetylene
998260	21" w/90° head for other fuel gases
<b>OXWELD® C-77 Cutting Torch</b>	
28X55	21" w/90° head for acetylene
<b>Lifetime Warranty</b>	
*special length torches assembled upon request.	
19048	For acetylene
19050	For acetylene w/max. preheat capacity
19049	For other fuel gases at over 5 PSI
19417	For low PSI natural gas

## Hose Line Flash Arrestors

- When attached to torch handles with "B" size inlets, will actually stop a flashback.
- Also designed to stop reverse flow of gases; should be left in place when hose is detached.



Part No.	Description
<b>Flash Arrestors</b>	
20357	Matched pair torch
20373	Oxygen only torch
20374	Fuel gas only torch
<b>Reg Mounted Arrestors CV/FA</b>	
0558002693	Acetylene regulator
0558002694	Oxygen regulator
0558002695	Matched pair regulator

## Reverse Flow Check Valves

- Attached either to a torch or to a regulator, provide a certain measure of protection against reverse flow of gases.
- Any condition that might cause reverse flow will close the valve completely. Reverse flow check valves should be tested periodically for reverse flow leakage. Frequency of testing depends on severity of service.

**CAUTION:** These valves ARE NOT designed to stop a flashback.

Flow rate maximum - 100 CFH using flash arrestors or check valves.

Part No.		Description
Oxygen	Fuel Gas	
639110	639109	For attachment to "B" size torch inlets
639112	639111	For replacement of 1/4" NPT to "B" size reg. outlet connection
639209	639210	For attachment to "B" size regulator outlets

## Machine Cutting Torches

### OXWELD® C-58

- For use with portable straight line or shape-cutting machines.
- Cuts steel up to 6".
- Available in 2-hose (single oxygen inlet) or 3-hose models.
- Mixer handles any medium pressure fuel gas - including acetylene.
- Uses high performance 1500 series cutting nozzles.

### OXWELD® C-67

- For use with any fuel gas except acetylene.
- Injector determines capacity – torch supplied with one injector installed.
- Three hose connections – separate cutting oxygen for improved performance.



MADE IN USA



C-58

C-67

### Injector Legend

**LPMC (01Y56, 01Y74) Type III** - low pressure, medium capacity for general purpose cutting from 1/8" to 14" thick steel. Best all-around choice for multiple torch operation. Good multi-torch balance capability, coupled with heavier preheat than LLPMC injector, for quick pierce starts. Requires a minimum fuel gas pressure of 5 PSI.

**LLPMC (01Y61) Type I** - low, low pressure, medium capacity for cutting up to 8" thick steel. Recommended only when maximum available fuel gas pressures are less than 5 PSI. Excellent multi-torch balance capability, but limited preheat intensity, resulting in longer preheat times when piercing.

**LPHC (01Y57, 01Y75) Type II** - low pressure, high capacity for cutting up to 20" thick steel with fuel gas pressures of at least 3 PSI. Recommended for heavy preheat applications such as beveling, auxiliary preheat, etc. Not recommended where multi-torch balance is required.

**MPHC (01Y58)** - medium pressure, high capacity for very heavy preheat and cutting applications up to 20" with 1500 series nozzles and 28" with 1400 series steel industry torches and nozzles. A minimum of 5 PSI fuel gas pressure is required. Use only with nozzle sizes for 12" or larger.

Part No.	Description
<b>Torches For Any Fuel Gas</b>	
02X74	C-58 2 connection (12.5", 318 mm), 1-3/8" Barrel Dia.
02X44	C-58 3 connection (12.5", 318 mm), 1-3/8" Barrel Dia.
<b>Torches For FG-2, Natural Gas, and Propane</b>	
28X31	C-67-20, LLPMC (20.5", 520 mm), 1-3/8" Barrel Dia. (Type I)
28X28	C-67-20, LPHC (20.5", 520 mm), 1-3/8" Barrel Dia. (Type II)
28X35	C-67-12, LPHC (12.75", 324 mm), 1-3/8" Barrel Dia. (Type II)
28X29	C-67-20, LPMC (20.5", 520 mm), 1-3/8" Barrel Dia. (Type III)
28X22	C-67-20, MPHC (20.5", 520 mm), 1-3/8" Barrel Dia.
<b>C-67 Accessory Injectors</b>	
01Y61	20.5" (520 mm) LLPMC (Type I)
01Y57	20.5" (520 mm) LPHC (Type II)
01Y56	20.5" (520 mm) LPMC (Type III)
01Y75	12.75" (324 mm) LPHC (Type II)
01Y74	12.75" (324 mm) LPMC (Type III)
01Y58	20.5" (520 mm) MPHC

### CM-79 Portable Cutting Machine

- Solid state controls for dependable, maintenance-free service.
- Three position switch for start, stop and reverse.
- Clutch levers at both ends of carriage for greater accessibility.
- Direct reading speed control dial can be preset or instantly adjusted during operation.
- Normal speed range 0 to 60 IPM (0 to 25 mm/sec.).
- Sturdy one-piece aluminum housing.

#### Overall Size

Length.....	15-1/4" (387 mm)
Height (including mounting stud) .....	7" (178 mm)
Width .....	7-1/4" (184 mm)
Weight (without rigging or torch).....	21 lbs. (9.5 kg)
Carrying Load Maximum.....	250 lbs. (113.4 kg)
Speed Range.....	0 to 60 IPM* (0 to 25 mm/sec.)
Cutting Capacity.....	up to 4" thick** (102 mm)
Circle Cutting Range .....	2 to 54" *** (51 to 1371 mm)
Power Requirements.....	120 VAC, 2 AMP (max.), 50/60 Hz, 1 Ph

\* Can be adjusted to attain speeds up to 90 IPM (38 mm/sec.)

\*\*Up to 10" (254 mm) with accessory heat shield.

\*\*\*Can be increased by use of longer rod easily made from standard bar stock.



CM-79 w/C-58 Torch,  
Rigging Assembly and Track

Part No.	Description
<b>Machine or Rigging Only</b>	
995557	CM-79 Portable machine carriage with 28' lead
16V90	Torch rigging assembly
<b>Basic Machine Package</b>	
998695	Includes standard machine, rigging and manifold kit*. Order torch separately
<b>Complete Machine Package</b>	
998947	Includes everything supplied with basic package plus C-58 torch (02X74), Heat shield and heavy duty 6' track section**

\*Manifold kit - Part No. 639659

\*\*6' track section - Part No. 16V82



## Heavy Duty Steel Industry Torches

### OXWELD® C-66-1400 Hand Cutting Torch

- Fast, efficient scrap cutting.
- Reliable emergency hand cutting in production mill environments.
- Designed for extra heavy-duty operations for long trouble-free service life.
- Cutting range 3" - 28".
- Torch lengths from 32" to 17'.
- Torches 9' and over have protective outer channel.
- Off-center 180° head allows kerf to be widened by rotating torch. Torch can then be inserted into kerf to deepen cut.
- Use 1400 series nozzles.
- Fuel gases except acetylene.



C-66-1400



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### OXWELD® High Capacity Manual Torches

Part No.	Model
22111	C-66-1400-21" - 75°
22112	C-66-1400-21" - 90°
22113	C-66-1400-21" - 180°
22118	C-66-1400-36" - 75°
22119	C-66-1400-36" - 90°
22120	C-66-1400-36" - 180°
718321	C-66-1400-48" - 75°
2120361	C-66-1400-48" - 90°
718322	C-66-1400-48" - 180°
718323	C-66-1400-60" - 75°
22122	C-66-1400-60" - 90°
718324	C-66-1400-60" - 180°
718325	C-66-1400-72" - 75°
22123	C-66-1400-72" - 90°
718326	C-66-1400-72" - 180°

### OXWELD® PM-GST Hand Cutting Torch

- Fast, efficient scrap cutting.
- Reliable emergency hand cutting in production mill environments.
- Designed for extra heavy-duty operations for long trouble-free service life.
- Impossible to flashback because gas mixes outside nozzle tip.
- Fuel gases except acetylene.
- PM-GST means Post-Mix Gas Saving Torch.
- Superior emergency torch capability.
- High stand-off 4" - 6".
- Cutting range 3" - 24".
- Pilot flame mode saves gas in stand-by mode – ready for immediate use.
- Use standard PM-100/PM-200 nozzles.
- This torch cannot pierce plate.



PM-GST

### OXWELD® High Capacity Manual Torches

Part No.	Model
22094	PM-GST-48" - 90°
22098	PM-GST-48" - 180°
22087	PM-GST-60" - 75°
22095	PM-GST-60" - 90°
22099	PM-GST-60" - 180°
22096	PM-GST-72" - 90°
22097	PM-GST-96" - 90°
22101	PM-GST-96" - 180°
22090	PM-GST-120" - 75°
22102	PM-GST-120" - 180°
22091	PM-GST-144" - 75°
22106	PM-GST-144" - 90°
22103	PM-GST-144" - 180°
22092	PM-GST-192" - 75°
22104	PM-GST-192" - 180°
22093	PM-GST-216" - 75°
22105	PM-GST-216" - 180°

#### Accessories

##### Hose Requirements:

- C-66-1400 and PM-GST
- Oxygen - "C" Size; Fuel "B" Size
- Cut Oxygen - 1/2", "C" Size

##### Riding Skid Assembly:

- C-66-1400 - Part No. 2029858



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## OXWELD® 1500 Group Nozzles

### ACETYLENE- Hand or Machine Cutting Nozzles

#### 1502 Series

- General purpose.
- Medium preheat, sufficient preheat for cutting dirty plate and for beveling.



Part No.	Metal Thickness		Size	No. Preheat Holes	Cleaning Preheat	Drill Size Cutting
	Inches	mm	Inches			
08Z67	1/4	6	1/4	6	69	68
15Z17	1/2	13	1/2		66	60
15Z18	1-1/2	38	1-1/2		65	53
15Z19	2 - 4	50-100	4		61	46
15Z20	6 - 8	150-200	8		57	39
15Z21	9 - 12	230-300	12		56	31
13A96	12 - 16	300-400	16*		54	20
13A97	16 - 18	400-460	18*		54	15
13A98	20	500	20*		54	8

### Acetylene or MAPP® Nozzles

#### 1564 Series

- Heavy preheat for beveling of prime coated steels or bevels in excess of 45°.
- Heavy scrap cutting.



Part No.	Metal Thickness		Size	No. Preheat Holes	Cleaning Preheat	Drill Size Cutting
	Inches	mm	Inches			
638983	1/4 - 1/2	6 - 13	1/2	8	67	60
638984	3/4 - 1-1/2	19 - 50	1-1/2		64	53
638985	2 - 4	50 - 100	4		62	46
638986	5 - 8	125 - 200	8		59	39
638987	59 - 12	230 - 300	12		56	31

### FUEL GASES - Hand or Machine Cutting Nozzles

#### 1515 Series

- Natural gas or propane one-piece.
- Long preheat flames.



1-piece Tip Part No.	Metal Thickness		Size	No. Preheat Holes	Cleaning Preheat	Drill Size Cutting
	Inches	mm	Inches			
08Z86	1/2 - 1-1/2	13 - 38	1-1/2	8	64	53
08Z87	2 - 4	50 - 100	4		62	46
08Z88	4 - 8	100 - 200	8		59	39
08Z89	8 - 12	200 - 300	12		56	3
65Z12	12 - 16	300 - 400	16		54	20
65Z13	16 - 18	400 - 450	18	12	53	15
65Z14	18	450	20		52	8

## OXWELD® Special Nozzles – Acetylene, FG-2, Natural Gas and Propane

### Acetylene Nozzles – 1511 Series

### Propane - Natural Gas Nozzles – 1520 Series

### FG-2 MAPP® Nozzles – 1568 Series

- For gouging, grooving plate edges for welding, removing defects from castings, pad washing.
- Bent 20°.
- 1511 and 1568 nozzles have stellite wear skids.



Part No.			Size	Cleaning Preheat	Drill Size Cutting
1511 Series	1520 Series	1568 Series			
15X14	15X33	998273	13	56	55
15X15	15X34	998274	19	55	49
15X16	15X35	998275	25	54	41



## Cutting Nozzles

### Fuel Gases - Hand or Machine Cutting 1567 Series

- Two-piece, high preheat.
- Hand or machine cutting.
- Fuel gases other than acetylene.



Metal Thickness	Size		Part No. 2-pc. Tip	Part No. External Sleeve			No. Preheat Slots	Cleaning Preheat	Drill Size Cutting
	Inches	mm		Inches	Natural Gas Propane	FG-2 MAPP®			
1/8	3	1/8	639614	639322	998277	998557	12	•	79
1/4	6	1/4	639615						69
1/2	13	1/2	639616						65
3/4	19	3/4	639617						61
1	25	1	639618						54
2	50	2	639619						51
3	75	3	639620						5/64
4	100	4	998734	14Z39	114Z08	998561	16	•	46
8	200	8	998735	14Z77†	639755	998558			39
12	300	12	998736						31
16	400	16	998737	14Z69	998269	998559	20	•	20
18	500	18	998738						8

### 1567 Series Sets

Metal Thickness	Set Part No.	Internal Part No.	Natural Gas Propane	Set Part No.	Internal Part No.	FG-2 MAPP®	Set Part No.	Internal Part No.	FG-2 MAPP®*
1/8"	0558005015	639614	639322	0558005027	639614	998277	0558005039	639614	998557
1/4"	0558005016	639615		0558005028	639615		0558005040	639615	
1/2"	0558005017	639616		0558005029	639616		0558005041	639616	
3/4"	0558005018	639617		0558005030	639617		0558005042	639617	
1"	0558005019	639618		0558005031	639618		0558005043	639618	
2"	0558005020	639619		0558005032	639619		0558005044	639619	
3"	0558005021	639620		0558005033	639620		0558005045	639620	
4"	0558005022	998734	14Z39	0558005034	998734	114Z08	0558005046	998734	998561
8"	0558005023	998735	14Z77	0558005035	998735	639755	0558005047	998735	998558
12"	0558005024	998736		0558005036	998736		0558005048	998736	
16"	0558005025	998737	14Z69	0558005037	998737	998269	0558005049	998737	998559
18"	0558005026	998738		0558005038	998738		0558005050	998738	

\* Use where high preheat intensity is desired.

† Heavy-duty sleeve (Part No. 14Z96) is available for use in place of standard sleeve (Part No. 14Z77).

- To clean preheat slots, remove external sleeve and use a soft bristled brush.

### 1566 HS Series

- Two-piece, high-speed, high preheat for machine cutting.
- Fuel gases other than acetylene.



Metal Thickness	Size		Part No. 2-pc. Tip	Part No. External Sleeve			No. Preheat Slots	Cleaning Preheat	Drill Size Cutting
	Inches	mm		Inches	Natural Gas Propane	FG-2 MAPP®			
1/2	13	1/2	639600	639322	998277	998557	12	•	#
3/4	19	3/4	639601						
1	25	1	639602						
1-1/2	38	1-1/2	639603						
2	50	2	639604						
2-1/2	64	2-1/2	639605						
4	100	4	639606						
6	150	6	639607	14Z39	114Z08	998561			
8	200	8	998739						
10	250	10	998740	14Z77†	639755	998558	16	•	
14	350	14	998741						

### 1566 Series Sets

Metal Thickness	Set Part No.	Internal Part No.	Natural Gas Propane	Set Part No.	Internal Part No.	FG-2 MAPP®	Set Part No.	Internal Part No.	FG-2 MAPP®*
1/2	0558005072	639600	639322	0558005083	639600	998277	0558005094	639600	998557
3/4	0558005073	639601		0558005084	639601		0558005095	639601	
1	0558005074	639602		0558005085	639602		0558005096	639602	
1-1/2	0558005075	639603		0558005086	639603		0558005097	639603	
2	0558005076	639604		0558005087	639604		0558005098	639604	
2-1/2	0558005077	639605		0558005088	639605		0558005099	639605	
4	0558005078	639606		0558005089	639606		0558005100	639606	
6	0558005079	639607	0558005090	639607	0558005101	639607			
8	0558005080	998739	14Z39	0558005091	998739	114Z08	0558005102	998739	998561
10	0558005081	998740	14Z77†	0558005092	998740	639755	0558005103	998740	998558
14	0558005082	998741		0558005093	998741		0558005104	998741	

\* Use where high preheat intensity is desired.

† Heavy-duty sleeve (Part No. 14Z96) is available for use in place of standard sleeve (Part No. 14Z77).

- To clean preheat slots, remove external sleeve and use a soft bristled brush.

# Clean cutting orifice only with H.S. cleaning kit (Part No. 755F00).

## Cutting Nozzles

### Heavy Duty Steel Industry Nozzles 1427 & 1431 Series Cutting Nozzles



Part No.	Model		Steel Thickness - Cutting Capacity	Size	
	1-pc. or Internal	External Sleeve	Inches		
5470099		1400 Series Fuel Gas Fit C-43, 66 & 67-1400 Torches	12	1427-12	
5470144			14	1427-14	
5470100			16	1427-16	
5460192			20	1427-20	
5460162			24	1427-24	
5460193			28	1427-28	
66Z59			3-6	1431-120	
66Z60			6-10	1431-140	
66Z61			10-16	1431-160	
66Z62			16-20	1431-200	
66Z63			20-24	1431-240	
66Z64			24-28	1431-280	
2121848			2119485	3-6	Ring Flame
2119486				6-10	
2119578		10-20			
2118702		PM Nozzles Fit PM-100, 200 & GST Torches	3-6	PM-120-85	
2118701			6-10	PM-140-85	
2118707			6-10	PM-110-200	
2118700			10-16	PM-160-85	
2118703			10-24	PM-160-135	
2228620			4-9	PM-93-200	

### PM-100, 200 & GST Nozzles



### PUROX® 4200 Group Nozzles 4202 Series Acetylene Nozzles

- General purpose.
- Medium preheat sufficient for beveling.



Part No.	Metal Thickness - Cutting Capacity		Size Inches	No. Preheat Holes	Cleaning Preheat	Drill Size Cutting
	Inches	mm				
638869	1/8	3	1/8	4	73	76
16K08	3/16 - 1/4	4 - 6	1/4	6		68
16K09	1/2	13	1/2	6		60
16K10	3/4 - 1-1/2	19 - 38	1-1/2	6	69	55
16K11	2 - 4	50 - 100	4		68	50
16K12	6	150	6		64	43
16K13	8 - 10	200 - 250	10		60	35
16K14	12	300	12		56	30

### 4217 Series Fuel Gas Nozzles

- General purpose.
- Heavy preheat for fast starts.
- For fuel gases other than acetylene.
- Use soft-bristled brush (750F99) to clear preheat slots of internal nozzles.



Part No.	1 Pc. or Internal	External Sleeve	Metal Thickness		Size Inches	No. Preheat Holes/Slots	Clean- ing Preheat	Drill Size Cutting
			Inches	mm				
19485		19518	1/4	6	1/4	12	•	68
19486			1/2	13	1/2			60
19487			1	25	1			53
19488		19519	2	50	2	20	•	50
19489			4	100	4			43
19490			6	150	6			39
19491			8	200	8			35
19492			12	300	12			31

### 4217 Series Sets

Part No. Set	Internal	Metal Thickness		Natural Gas Propane
		Inches	mm	
0558005123	19485	1/4	6	19518
0558005124	19486	1/2	13	
0558005125	19487	1	25	
0558005126	19488	2	50	

Part No. Set	Internal	Metal Thickness		Natural Gas Propane
		Inches	mm	
0558005127	19489	4	100	19519
0558005128	19490	6	150	
0558005129	19491	8	200	
0558005130	19492	12	300	



## Cylinder Regulators

### OXWELD® Heavy-Duty Trimline™ R-77 Regulators

- Rugged two-stage regulator is actually two regulators in one.
- Heavy-duty design provides accurate and consistent delivery pressure.
- Patented explosion protection built in.



MADE IN USA

R-77 Series Two-Stage

Part No.	Cylinder Gas	Model	Max. PSIG	Outlet Connection	
				CGA	Thread Style
998336	Oxygen	R-77-75-540	75	022	9/16" - 18 RH male
998337		R-77-150-540	150		
998338		R-77-200-540	200		
998371	Acetylene	R-77-15-510*	15	023	9/16" - 18 LH male
998340		R-77-15-300			
998341	Hydrogen, Methane	R-77-75-350	75	023	9/16" - 18 LH male
998342		R-77-150-350	150		
19057	Argon, Helium,	R-77-15-580	15	032	5/8" - 18 RH female
19590	Nitrogen	R-77-30-580	30	032	5/8" - 18 RH female
998343		R-77-75-580	75		
998344		R-77-150-580	150		
998345		R-77-500-580	500	-	1/4" - 45° flared tube fitting
998348	Industrial Air	R-77-150-590	150	033	5/8" - 18 LH female
18558	Breathing Air	R-77-150-346	150	022	9/16" - 18 RH male

### OXWELD® Heavy-Duty Trimline™ R-76 Regulators

- Heavy-duty construction provides improved performance and longer life in any environment.
- Patented explosion protection built in.



MADE IN USA

R-76 Series Single-Stage

Part No.	Cylinder Gas	Model	Max. PSIG	Outlet Connection	
				CGA	Thread Style
<b>Single-Stage With Gauges</b>					
998323	Oxygen	R-76-75-540	75	022	9/16" - 18 RH male
998324		R-76-150-540	150		
998370	Acetylene	R-76-15-510*	15	023	9/16" - 18 LH male
998328		R-76-15-300			
998331	FG-2, Propane, MAPP	R-76-75-510	75	023	9/16" - 18 LH male
998332	Hydrogen, Methane	R-76-75-350	75	023	9/16" - 18 LH male
998334	Argon, Helium, Nitrogen	R-76-150-580	150	032	5/8" - 18 RH female
998335		R-76-500-580	500	-	1/4" - 45° flared tube fitting
19629	Carbon Dioxide	R-76-150-320	150	032	5/8" - 18 RH female
999149		R-76-CF-320	10-80 CFH		
17153	Breathing Air	R-76-150-346	150	022	9/16" - 18 RH male
<b>Liquid Cylinder Service</b>					
19777	Oxygen	R-76-150-540LC	150	022	9/16" - 18 RH male
19977	Inert Gas	R-76-150-580LC	150	032	5/8" - 18 RH female
<b>Gaugeless</b>					
998325	Oxygen	R-76-150-540G	150	022	9/16" - 18 RH male
998329	Acetylene	R-76-15-510G	15	023	9/16" - 18 LH male

### PUROX® Medium-Duty R-72/36 Regulators

- Designed for medium-duty service and built for years of trouble-free performance with minimum maintenance.



MADE IN USA

R-72 Series Single-Stage

Part No.	Gas Service	Model	Max. PSIG	Outlet Connection	
				CGA	Thread Style
21524	Oxygen	R-72-75-540	75	022	9/16" - 18 RH male
21528		R-72-125-540	125		
21525	Acetylene	R-72-15-510	15	023	9/16" - 18 LH male
21526		R-72-15-300	15		
21527	LPG	R-72-75-510	75	023	9/16" - 18 LH male
0558005415	Inert Gas	R-72-75-580	75	032	5/8" - 18 RH female
0558005416		R-72-125-580	125	-	1/4" - 37° flared tube fitting
0558005410	Carbon Dioxide	R-72-75-320	75	032	5/8" - 18 RH female
21365	Nitrogen purge	R-36-500-580	500	-	1/4" - 37° flared tube fitting

## Station Regulators / Pressure Regulators

### R-76/R-72 Heavy and Medium-Duty Station Regulators

- Similar in construction to single-stage, heavy-duty and medium-duty cylinder regulators, these regulators are equipped with a C-size inlet connection.
- Models are available for oxygen, acetylene, other fuel gases and inert gases.



**Heavy-Duty Hi-Flow  
TRIMLINE™ R-76**



**Medium-Duty R-72**

Part No.	Gas Service	Model	Max. PSIG	Max. Inlet PSIG <sup>1</sup>	Outlet Connection	
					CGA	Thread Style
<b>R-76 Series: Heavy-Duty Hi-Flow TRIMLINE™ Station Regulators</b>						
19151	Oxygen	R-76-150-024*	150	200	022	9/16" - 18 RH male
19152	Acetylene	R-76-15-025	15	15	023	9/16" - 18 LH male
19153	FG-2, Propane, Hydrogen, Propylene	R-76-75-025	75	200	023	9/16" - 18 LH male
19154	Argon, Helium, Nitrogen	R-76-15-034	15	200	032	5/8" - 18 RH female
19155		R-76-75-034	75			
<b>R-72 Series: Medium-Duty Station Regulators</b>						
0558005411	Oxygen	R-72-75-024	75	200	022	9/16" - 18 RH male
0558005412	Acetylene	R-72-15-025	15	15	023	9/16" - 18 LH male
0558005413	FG-2, Propane, Hydrogen, Propylene	R-72-75-025	75	200	023	9/16" - 18 LH male
0558005414	Argon, Helium, Nitrogen	R-72-75-034	75	200	032	5/8" - 18 RH female

\*Inlet Connection: CGA 024 (formerly "C" oxygen) - 7/8" - 14 RH female nut  
CGA 025 (formerly "C" fuel gas) - 7/8" - 14 LH female nut  
CGA 034 (formerly "C" inert gas) - 7/8" - 14 RH male nut

<sup>1</sup>Inlet pressure is limited because pressure of pipeline with C-size hose type outlets should not exceed 200 PSIG. Inlet pressure on acetylene regulators is limited because pressure of pipelines conveying acetylene should never exceed 15 PSIG.

### R-6700 High-Capacity Station Regulators

- For multi-torch applications; for example, the supply of cutting oxygen to an eight-torch cutting machine working on heavy plate.
- Three models are available with up to five times the capacity of standard models.
- Equipped with 1/2" NPT female inlet, outlet connections, and a delivery pressure gauge.
- Can be used with any common, non-corrosive, industrial gas.
- C-size outlet fittings available for oxygen, fuel gas and inert gas.



**High-Capacity R-6700**

Part No.	Gas Service	Model	Max. PSIG	Max. Inlet PSIG <sup>1</sup>	Outlet Connection
22234	Any non-corrosive, non-toxic industrial gas	R-6701	15	400	1/2" NPT female
22235		R-6702	75		
22236		R-6703	150		
2227920		R-6704	200		

<sup>1</sup>Inlet pressure is limited because pressure of pipeline with C-size hose type outlets should not exceed 200 PSIG.

Inlet pressure on acetylene regulators is limited because pressure of pipelines conveying acetylene should never exceed 15 PSIG.

### PREST-O-LITE® Regulators

#### Pressure Regulators

- Small and lightweight, yet rugged and dependable
- Outperforms regulators twice their size.
- Oxygen models have patented, built-in explosion protection.
- Fine mesh inlet filters prevent contamination.



**R-411 Regulator**



**R-22-75-540A  
Oxygen Regulator**



**R-36-500-580  
Inert Gas Regulator**

Part No.	Gas	Model	Max. PSIG	Outlet Connection	Gauges	
					Contents PSI	Delivery PSI
04X36	"B" acetylene tank (40 cf)	R-411B	15	A size	*	none
04X37	"MC" acetylene tank (10 cf)	R-411MC	15			
20971*	"B" acetylene tank (40 cf)	R-22-15-520B	15	B size	***	15
20972**	MC" acetylene tank (10 cf)	R-22-15-200B	15			
998765	Standard acetylene cylinders with CGA 510 outlet	R-22-15-510A	15	A size	400	15
18564	Standard oxygen cylinders with CGA 540 outlet	R-22-75-540A	75		4000	100
21365	Inert gas	R-36-500-580	500		1/4"- 37° flared	4000

\* 20971 = 05X01 and 18Z56 adapter

\*\* 20972 = 05X02 and 18Z56 adapter

\*\*\* Graduated as follows: Full, 3/4, 1/2, 1/4, Empty





## Regulators / Flowmeters

### R-76-CF-320 Carbon Dioxide

- Black anodized finned body for the best heat conduction possible.
- Valve stem attached to diaphragm for positive shut off, especially when cold.
- Low rate pressure adjusting spring for smooth and easy flow adjustment, coupled with a 2-1/2" delivery gauge scaled in cubic feet per hour.
- CO<sub>2</sub> flow rates up to 80 cubic feet per hour (CFH).



### R-72-CF-580

- 2-1/2" delivery gauge scaled in CFH.
- Accurate argon flow rate of 10 to 40 CFH.



### R-5007 / R-5008

- R-5007 for argon, helium, C-25 mixture, and nitrogen (R-5008 for CO<sub>2</sub> only).
- Output to flowmeter is regulated to exactly 50 PSIG (80 PSIG on R-5008).
- Rotating scale for easy readability of flow rates.



Part No.	Cylinder Gas	Model	Calibrated Flow Range CFH	Outlet Connection
999149	Carbon Dioxide	R-76-CF-320	10 to 80	5/8" - 18RH female
0558005417	Inert Gas	R-72-CF-580	10 to 40	
998124	Argon, Helium, C-25 and Nitrogen	R-5007	20 to 220 He	
998125	Carbon Dioxide	R-5008	10 to 65	

### R-33 Regulator-Flowmeter

- Competitively priced.
- Durable Lexan outer tube and flow tube with easy-to-read graduations.
- Solid brass piston & machined brass body.
- 3000 PSI cylinder contents gauge.



Part No. 21557

Part No.	Cylinder Gas	Model	Flow Rate	Outlet Connection
21557	Argon	R-33-FM-580	10-50 CFH	5/8" - 18RH female
21589*	Inert Gas	Display package	20-150	
	C-25		10-50	

\*Consists of: R-33-FM plus an 8 ft. hose (Part No. 21591).

### L-32 / L-33 Flowmeters

- Durable Lexan® outer tubes.
- L-32 has 4 rotatable scales.
- L-33 has single scale.
- CO<sub>2</sub> models available in both styles.
- UL listed.



L-32



L-33

Part No.	Cylinder Gas	Model	Calibrated Flow Range CFH	Connections	
				Inlet	Outlet
639751	Argon, Helium, C-25 and Nitrogen	L-32	10 to 70 Ar	RH male	5/8" - 18 RH female
			10 to 65 C-25		
			20 to 220 He		
			10 to 80 N <sub>2</sub>		
998843	CO <sub>2</sub>	L-32	10 to 65 CO <sub>2</sub>	1/4" NPT	5/8" - 18 RH female
21988	Argon	L-33IG	10 to 50	5/8" - 18 RH male	5/8" - 18 RH female
21989	Helium, C-25	L-33IG	20 to 150 Ar	1/4" NPT female	5/8" - 18 RH female
			10 to 50 C-25		
21990	CO <sub>2</sub>	L-33 CO <sub>2</sub>	10 to 65	1/4" NPT female	5/8" - 18 RH female

**Note:** The L-32 and L-33 are not equipped with gauges. The L-32 is calibrated to operate with 50 PSIG inlet pressure. A 20 PSIG model is available. Order Part No. 603383. The CO<sub>2</sub> model is calibrated to operate at 80 PSIG. The L-33IG models are calibrated to operate at 25 PSIG and the L-33 CO<sub>2</sub> model at 80 PSIG.

### Accessories

Part No.	Item	Description
17459	Flowmeter guard	Mounts over the calibrated tube of the L-32 for protection against rough handling.
19043	Portable Gas Meter	Available to check actual shielding gas flow at torch



L-32 w/ 17459 guard

## Air / Propane / MAPP® / Oxy-Fuel Equipment

### Weldpro Torch Kits

- Used for cutting and welding.
- Weldpro UL listed torch & regulators.
- Durable forged bodies with stainless steel needle valves.
- 20 ft. hose, "B" connections.
- Interchangeable with victor style torches.
- Tips included cut to 3/4".

**Contents:** TW-20BV welding torch, TCA-20 cutting attachment, 2341-1 cutting tip, 3032-0,2,4 welding tips, SW-20B hose, MP-35 goggles, MP-1 lighter, MP-37-A tip cleaner, EO-50 Oxy reg & EA-50-P fuel reg or EA-50-C fuel reg

**Part No. KM-5TA-CV:** Kit with CGA-300 regulator to cylinder connections

**Part No. KM-5TA-PV:** Kit with CGA-510 (POL) regulator to cylinder connections



### Hand Torches for Disposable Cylinders

#### GP-6 Torch

This torch is designed for durability at an economical price. It has the quality features that you would expect in a Goss torch.

- Used only with propane gas.
- Economical and practical for light duty jobs.
- Flame control valve gives precise adjustments.
- Solid brass construction.
- More durable than most torches of this type.
- No plastic or anodized aluminum parts.



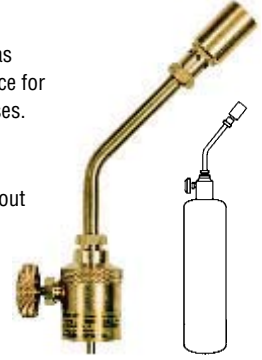
Part No. GP-6

#### GP-9 Torch

Made of the finest brass materials, this torch has soft soldering capabilities and is a popular choice for plumbing, heating, electrical and many other uses.

- Tip can be used with propane or MAPP® gas without changing the orifice.
- Easily adjusted to three different flames without changing tip ends.
- Attractively packaged.
- Torch can be used in any position after tip end has preheated.

\*Cylinder not included.



Part No. GP-9

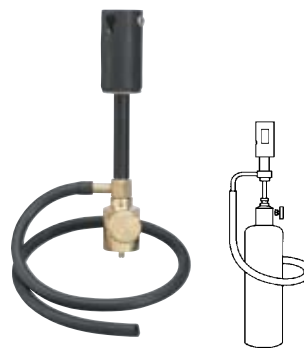
### Leak Detector

**Use with disposable propane or MAPP® gas cylinders.**

The flame, when adjusted to heat the reactor plate, quickly changes color as the search hose passes a leak of refrigerant gas.

- 24" search hose.
- Blackened shell to easily observe flame color.
- Replacement parts available.

\*Cylinder not included.



Part No. GP-18R

## Air Acetylene Equipment

### Feather Flame Acetylene Kits



These kits include our most economically priced air-acetylene tips. Their design makes them inexpensive while still producing excellent flame characteristics. The tips range from a small pencil point flame used for precision work to a large brush flame used for heating or soldering large diameter tubing. Choose from a wide selection of kits that best meets your needs.

Kit No.	Tip No.	Soft Solder	Regulator
KA-1H	BA-3	1/4" - 1/2"	"B"
KA-2H	BA-3	1/4" - 1/2"	"MC"
KA-31	BA-2, 3, 4	1/4" - 1/2"	"B"
KA-32	BA-2, 3, 4	1/2" - 1"	"MC"
KA-37H*	BA-4	1/2" - 1"	"B"
KA-38H*	BA-4	1/2" - 1"	"MC"

**Kit contents:** HA3-12 hose, regulator, AA-1 handle, MP-1 lighter and MA-2 wrench, UL listed regulator and hose.

### Acetylene Torch Handles

Threaded style torches have a comfortable handle design to help reduce operator fatigue. All "BA" tips fit below handles.



Part No. AA-1

Part No. AA-3

Snap-in style torch utilize a quick disconnect to rapidly change tips. Ribbed handle provides a positive grip. All "GA" tips fit this handle.



Part No. GG-4

### Target® Torch MAX Acetylene Kits



Kits feature the very hot, compact, adjustable Target® Tips for professional soldering and brazing applications. Kits also include a quick disconnect handle, accessories and UL listed regulator. Choose from a wide selection of kits.

Kit No.	Tip No.	Soft Solder	Regulator
KX-3B	GA-3, 11	1-1/2" - 3-1/4"	"B"
KX-4B	GA-5, 14	2" - 4"	"B"
KX-5B	GA-5	3/4" - 1-1/2"	"B"
KX-7B	GA-8	1" - 2-1/2"	"B"

**Kit contents:** HA3-12 hose, GG-4 handle, GA tip(s) and regulator.

**MaXPerformance**

### Acetylene Regulators

These UL LISTED regulators, manufactured of quality brass, are made for rugged use.

B cyl. connection  
"A" hose fitting  
3/8-24 L.H.

Part No. EA-1G

MC cyl. connection  
"A" hose fitting  
3/8-24 L.H.

Part No. EA-2G



### Replacement Tips

#### Feather Flame® Tips

Quiet adjustable flame for soft soldering and light brazing. Fits AA-1, AA-3  
Part Nos. BA-1, 2, 3, 4, 5, 6

#### MaXPerformance

#### Target® Tips MAX

- Adjustable flame.
- Unique mixer design cuts brazing time by 30% over conventional tips.
- Tips have a filter and removable orifice.
- Interchangeable with other quick disconnect style tips.
- Made of heavy stainless steel and brass.
- Tips fit GG-4 handle.

Part Nos. GA-3, 5, 8, 11, 14

#### EZE-LITE™ Instant Ignition Tips

- Innovative spark igniting swirl flame tip ignites with the push of a button.
- Interchangeable with other quick disconnect style tips.
- Removable/cleanable orifice.
- 100% flame tested.
- Tips fit GG-4 handle.

Part Nos. GA-3L, 8L, 14L

### EZE-LITE™ Instant Ignition Kits



Kits feature EZE-LITE™ push button spark ignition tips with a swirl action flame. Also featured is the quick disconnect handle, durable regulator and hose.

- Interchangeable replacements.
- High performance originals.
- 50 years experience.

Kit No.	Tip No.	Soft Solder	Regulator
KX-10B	GA-3L	Up to 2"	"B"
KX-10MC	GA-3L	Up to 2"	"MC"
KX-15B	GA-8L	Up to 4"	"B"
KX-15MC	GA-8L	Up to 4"	"MC"

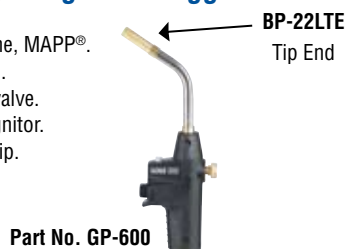
**Kit contents:** HA3-12 hose, GG-4 handle, GA tip and regulator.

## Air Propane and MAPP® Equipment

### Self Ignite Equipment

#### GP-600 Self Igniting MAX Trigger Torch

- Flame lock button.
- Operates on propane, MAPP®.
- Replaceable tip end.
- Flame adjustment valve.
- Heavy duty Piezo ignitor.
- Ergonomic hand grip.



#### GP-360R / GP-360L Self Igniting MAX

- Operates on MAPP® or propane.
- Reduces brazing time up to 30% over conventional torches.
- Heavy duty brass regulator.
- Stainless steel tip ends.
- Cylinders not included.



### Regulators / High Pressure

All brass regulators used with LP torches and furnaces. Adjustable pressure from 5 to 70 lbs. UL LISTED with POL inlet fittings and nut, and 9/16 - 18 hose outlet.

- 0-60 PSI outlet pressure.
- Without gauge for propane and MAPP® gas.

Part No. EP-45G

- 0 - 60 PSI outlet pressure.
- With gauge for propane gas.

Part No. EP-70G

- 0 - 70 PSI outlet pressure.
- Without gauge for propane gas.

Part No. EP-80G



### Torch Handles

Comfortable handle design reduces operator fatigue. Up front valve offers single handed operation. This handle accepts all BP-tips shown on this page.

Part No. AP-1



Snap-in style torch utilizes a quick disconnect to rapidly change tips. Ribbed handle provides a positive grip. All "GT" tips fit this handle.

Part No. GH-4



### Propane Hoses

- Use with propane gas.
- "B" size hose fittings.
- Max. pressure - 350 PSI.
- 9/16" OD, 1/4" ID.

Part No.	Size
HEF-6	6'
HEF-10	10'
HEF-12	12'
HEF-20	20'
HEF-35	35'
HEF-50	50'



### Propane/MAPP® Hoses

- Use with propane or MAPP® gas.
- Flexible hose.
- "B" hose fittings.

Part No.	Size
HP3-12	12'



### Pencil and Brush Flame Kits

### Target® Propane Kits



#### Propane Kits

These kits include our most versatile air-propane tips. Their design makes them inexpensive while still producing excellent flame characteristics. The tips can be adjusted from a small pencil point flame to a large brush flame.

Kit No.	Tip No.
KP-102	BP-2
KP-105	BP-5

Kit Includes AP-1 handle, EP-70G regulator, MP-1 lighter, HEF-10 hose and torch tip.

#### Target® Kits

Kits feature the very hot, compact Target® Tips for professional soldering and brazing applications. Kits also include a quick disconnect handle, accessories and UL Listed regulator.

Kit No.	Tip No.
KLP-2	GT-3, GT-5
KLP-4	GT-4

Kit Includes: GH-4 handle, HP3-12 hose, EP-45G regulator and torch tip(s).

### Replacement Tips Pencil and Brush Flame Tips

<p>BP-1</p>	<p>Small pencil flame, soft solders to 1/2" 6,000 BTUs @ 40psi <b>Part No. BP-1</b></p> <p>Large pencil flame, soft solders to 1-1/2" 11,000 BTUs @ 40psi <b>Part No. BP-2</b></p>
<p>BP-5</p>	<p>Small brush flame, soft solders to 2" 14,000 BTUs @ 40psi <b>Part No. BP-3</b></p> <p>Medium brush flame, soft solders to 3" 43,000 BTUs @ 40psi <b>Part No. BP-4</b></p> <p>Large brush flame, soft solders to 4" 57,000 BTUs @ 40psi <b>Part No. BP-5</b></p>

#### Target® Tips



Part. No. GT- 2, 3, 4, 5  
(GT-4L self igniting style)

- Unique mixer design cuts brazing time by 30% over conventional tips.
- Tips have a filter and removable orifice.
- Interchangeable with other quick disconnect style tips.
- Made of heavy stainless steel and brass.
- Tips fit GH-4 handle.

## Air-Propane Equipment

### ProFlame® Torches

This equipment can be used for weed burning, drying, heating, melting and other applications requiring large volumes of outdoor heat. Each uses vapor propane fuel and has a durable handle with rear on/off control valve.

They are used by contractors and farmers as well as road, railway and industrial maintenance crews.

### Torches With Steel Burner

Part No. AP-6



Has two grips for easy handling

Part No. AP-10A



Propane or natural gas

Part No. AP-25



Part No. AP-25M - includes BP-66 piezoelectric ignitor tip.

Part No. AP-25N - for natural gas.

### Torch With Cast Iron Burner

Part No. AP-14



Part No.	Total Length	Weight (lbs.)	Approx. BTU Max.	Approx. Gas Usage at 70 PSI (lbs./hr.)	Tip	Tip Diameter
AP-6/AP-10A	38-1/2"	3-1/4	500,000	20	BP-8TE	3"
AP-14	27"	5-1/2	500,000	20	BP-10	2-3/8"
AP-25	31"	3-1/4	500,000	20	BP-6TE	2-1/8"



Heavy duty kits designed for rugged use anywhere large volumes of heat are required. KP-201MA Shown.

### Kits

**KP-201:** Includes AP-25 torch, EP-80G regulator, HEF-10 hose, and MP-1 lighter.

**KP-201M:** Same as above with BP-66 piezoelectric ignitor tip.

**KP-201A:** Includes AP-25 torch, IP-2 flow adaptor, HEF-10 hose, and MP-1 lighter.

**KP-201MA:** Same as above with BP-66 piezoelectric ignitor tip.

Regulators and flow adapters are Listed

### CAUTION

This equipment is an unvented device not designed for use indoors and **MUST NOT** be used in an enclosed area. **DO NOT** leave equipment operating unattended. Follow operating instructions included with this equipment. Use in accordance with all Federal, State and local regulations.

## Oxy-Fuel Replacement Torch Tips

### Oxy-Fuel Replacement Torch Tips

Airco/Concoa Style & Sizes	Goss Number
A-FH - 72 to 38	FH-825
A-FS - 72 to 38	FS-825
A-SP - 72 to 31	SP-825
124 - 00 to 3	810
138 - 00 to 4, 6	840
144 - 00 to 6-8-10	820
164 - 00 to 8	830
183 - 6, 8, 10, 12	807
185 - 6, 8, 10	807-S
261 - 00 to 8, 10	875
263 - 00 to 7	826
275 - 00 to 6	872
757 - 12, 14, 16, 18	857



Part No. 144



Part No. 98

Harris Style & Sizes	Goss Number
2290 - 1-5	221
3690 - 1, 2	1369
5090 - 0 to 7	3509
6290 - 000 to 6	1360
6290-G - 1, 2, 3	1300
6290-GG - 1, 2, 3	1305
6290-N - 000 to 4	1365
6290-NFF - 00 to 6	1355
6290-NH - 5 to 8	1345-H
6290-NX - 000 to 6	1335
6290-S - 1 to 6	1363
6290-VVC - 000 to 5/0	1345



Part No. 6290



Part No. 23-A-90

### Welding Tips

Airco/Concoa Style & Sizes	Goss Number
91 - 00 to 4	3051
98 - 00-8	3040

Air Products Style & Sizes	Goss Number
121 - 00 to 6	1460
159 - 00 to 6	1476
271A - 1, 2, 3	801-S + 231
461 - 1 to 5	221
461A - 1 to 5	801-S + 221



Part No. 159

Marquette Style & Sizes	Goss Number
GW-6 - 0 to 4	1646



Part No. GW-6

Meco Style & Sizes	Goss Number
AV - 00, 7	3060
LA - 00 to 6	1556
LM - 0 to 6	1555



Part No. LA



Part No. AV

### Welding Tips

Meco Style & Sizes	Goss Number
AV - 00, 7	3060
WGH - 1 to 5	220

Craftsman Style & Sizes	Goss Number
954431 - 0 to 7	3509
954436 - 1 to 2	1369
954441 - 0 to 10	3021



Part No. 1369

Harris Style & Sizes	Goss Number
H-FH - 68 to 44	FH-1345
H-FS - 72 to 44	FS-1355
23-A-90 - 0 to 10	3021

Oxweld/L-Tec Style & Sizes	Goss Number
O-FH - 72 to 38	FH-1735
O-FS - 72 to 38	FS-1734
1501 - 4, 6, 8, 10, 12	1750
1502 - 2 to 12 (1/8 to 12")	1760
1511 - 13, 19, 25	1770
1534 (Int) - 2 to 12,	1734
14Z38 (Ext) - 2, 3, 4	1738-S
14Z39 (Ext) - 6, 8	1739-M
14Z77 (Ext) - 10, 12	1736-X
1535 (Int) - 31 to 120	1735
14Z38 (Ext) - 31, 40, 43, 47, 52	1738-S
14Z39 (Ext) - 60, 80	1739-M
14Z77 (Ext) - 100, 120	1736-X
14Z39 (Ext) - 4	1739-M
14Z77 (Ext) - 8, 12	1736-X



Part No. 1502

## Oxy-Fuel Replacement Torch Tips

### Oxy-Fuel Replacement Torch Tip

Purox/L-Tec Style & Sizes		Goss Number
P-FS	72 to 38	FS-1955
P-SP	72 to 44	SP-1955
4202	2 to 9 (1/4 to 6)"	1952
4202	11, 13 (10, 12)"	1952
4203	4, 5, 7, 9	1965
4207	13, 19	1957
4213-14	3 to 8, 10, 12	1955
Weld Tip		
W-300	2, 4, 6, 9, 15,	3025



Part No. 4202      Part No. W-300

Rego/Recarc Style & Sizes	Goss Number
KX6	68 to 46, 42, 35



Part No. KX-6

Smith Style & Sizes		Goss Number
MC-12	00 to 4	2272
S-FS	72 to 44	FS-2295
SC-12	000 to 7	2276
SC-50	00 to 9	2295
SC-110	1, 2, 3	2271 +230
SC-112	1 to 5	2271 + 220
SW-200	1 to 5	3026
Weld Tip		
AW-200	1, 3, 5, 7	3028
MW-200	1 to 5	3027



Part No. SC-12      Part No. MW-200

Victor® Style & Sizes		Goss Number
GPM	(See 2V-FS)	
GPN	000 to 8	2355
GPP	0 to 5	2359
HPN	1 to 6	2365
MTHM	(See FH-2385)	
MTHN	00 to 5	2367
1-101	000 to 8	2360
1-110	00 to 2	2361
1-112	00 to 4	2363
1-118	0, 2, 4, 6, 8	2368
1-303 MP	(See 2V-SP)	
2V-FS	72 to 38	FS-2385
2V-SP	60 to 49	SP-2385
3-GPM	(See 3V-FS)	
3-GPN	00 to 5	2345
3-GPP	0 to 5	2349
3V-FS	68 to 49	FS-2395
3-101	000 to 6	2341
5-101	00 to 3	2320
5-200	0, 1, 2	2325



Part No. 2355

### Welding & Heating Tips

Victor® Style & Sizes	Goss Number
HTMP	1, 2, 3, 4, 5      2301-S + 241
HTN	1, 2, 3, 4, 5      2301 + 220
MFA	8, 10, 12, 15      3091
MFA-1	6, 8      3071
MFTA	1, 2, 3      2301 + 230
W	000 to 8      3031
W-1	000 to 7      3032
W-J	000 to 7      3033



### Cutting Tip Chart

Material Thickness	1/8	1/4	1/2	3/4	1	1-1/2	2	4	5	6	8	10	12
Recommended Tip Number + Drill Size	00 + 68	0 + 60	1 + 56	1 + 56	2 + 54	2 + 54	3 + 52	3 + 49	4 + 44	6 + 38	6 + 31	7 + 28	8
Oxygen Pressure Setting LB/IN <sup>2</sup> g	20-25	25-30	30-35	30-35	35-40	40-45	40-45	40-50	45-55	45-55	45-55	45-55	45-55
Fuel Gas Pressure Setting LB/IN <sup>2</sup> g	3-5	3-5	3-5	3-5	3-7	3-7	5-10	5-10	6-12	7-13	8-14	10-15	10-15
Cutting IN/MIN	27-30	26-29	20-24	17-21	14-18	13-17	12-15	8-11	7-9	6-8	5-6	4-5	3-4

Pipeliner® / Steelworker®

**Pipeliner®**

- Cuts to 6", welds to 1"
- Cuts to 1", welds to 1/8" with tips supplied.
- Goggles and striker included.



Part No.	Model No.	Torch Handle	Mixer	Cutting Attachment	Tips		Single Stage		Accessories
					Cutting	Welding	Oxygen Reg. 0-125 PSIG	Fuel Gas Reg. 0-15 PSIG	
4403155	43425-510 DLX	43-2	E-43	73-3	6290-1AC	23A90-5	425-125-540	425-15-510	20' x 1/4" hose
4403157	43425-300 DLX							425-15-300	
<b>V-Series: Victor® Compatible</b>									
4403048	V-3152500-510 DLX	V-315C	V-W	V-2460	V1-101-1	23A90-5	2500-125-540	2500-15-510*	20' x 1/4" hose
4403097	V-3152500-510 DLX Plus					23A90-3,5,8			Hose & J-63-2 heating tip

\* CGA 300 connection available upon request.

Victor® is a registered trademark owned by Victor Equipment Company, a Thermadyne Company.

**Steelworker®**

- Cuts to 5", welds to 1/2"
- Cuts to 1", welds to 1/8" with tips supplied.
- Goggles and striker included.



Part No.	Model No.	Torch Handle	Mixer	Cutting Attachment	Tips		Single Stage		Accessories
					Cutting	Welding	Oxygen Reg. 0-125 PSIG	Fuel Gas Reg. 0-15 PSIG	
4403069	8525-510 DLX	85	D-85	72-3	6290-1AC	23A90-5	25-100C-540	25-15C-510	20' x 3/16" hose
4403070	8525-300 DLX							25-15C-300	
<b>V-Series: Victor® Compatible</b>									
4403046	V-10025-510 DLX	V-100C	V-W-1	V-1350	V3-101-1	23A90-5	25-100C-540	25-15C-510*	20' x 1/4" hose
4403124	V-10025-510 DLX Plus					23A90-3,5,8			Hose & J-63-2 heating tip

\* CGA 300 connection available upon request.

Victor® is a registered trademark owned by Victor Equipment Company, a Thermadyne Company.





## Port-A-Torch / Welding and Cutting Outfits

### Port-A-Torch

Contains all the quality equipment needed for cutting, welding and brazing in a rugged molded plastic carrying case. The outfit is designed to carry one MC acetylene cylinder and one 20 cu. ft. oxygen cylinder. As supplied, the outfit is capable of cutting to 1" and welding to 1/16". Can cut to 4" and weld to 1/2" with larger tips and acetylene cylinder.



Part No.	Model No.	Torch Handle	Mixer	Cutting Attach.	Tips		Single Stage		Accessories
					Cutting	Welding	Oxygen Reg. 0-100 and 0-80 PSIG	Fuel Gas Reg. 0-15 PSIG	
4403077	16601-200 STD	16	H-16-2E	71-3	6290-1AC	23A90-3	601-100-540 (3000296)	601-15-200 (3000295)	Goggles, striker, 12' x 3/16" hose
4403078	16601-200 DLX								Goggles, striker, 12' x 3/16" hose 20 cu. ft. oxygen cylinder, 10 cu. ft. "MC" acetylene cylinder*
<b>V-Series: Victor® Compatible</b>									
4403125	V-100601-200 STD	V-100C	V-W-1	V-1350	V3-101-1	23A90-3	601-80-540 (3000296)	601-15-200 (3000295)	Goggles, striker, 12' x 3/16" hose
4403116	V-100601-200 DLX								Goggles, striker, 12' x 3/16" hose 20 cu. ft. oxygen cylinder, 10 cu. ft. "MC" acetylene cylinder*

\*Cylinders shipped empty.

Victor® is a registered trademark owned by Victor Equipment Company, a Thermadyne Company.

### Expert-Classic™

**Cuts to 4", welds to 1/2" with larger tips.**

Features a model 85 handle with Flashguard® check valves, model 72-3 cutting attachment and model 25 regulators.



Part No.	Model No.	Torch Handle	Mixer	Cutting Attachment	Tip		Single Stage		Accessories
					Cutting	Welding	Oxygen Reg. 0-100 PSIG	Fuel Gas Reg. 0-15 PSIG	
4403087	85201-510	85	D-85	72-3	6290-1AC	23A90-5	201-100C-540	201-15C-510	Goggles, striker, 20' x 3/16" hose
4403088	85201-300							201-15C-300	Goggles, striker, 20' x 3/16" hose

### Cutter Pac™

Features industrial duty regulators that are backed by a three year warranty. Triangular stainless steel tube torch design insures superior strength and added safety.



Part No.	Model No.	Cutting Torch	Torch Length	Torch Head Angle	Single Stage	
					Oxygen Reg. 0-100 PSIG	Fuel Gas Reg. 0-15 PSIG
4401638	6225E-510	62-5E	18"	90°	25-100C-540	25-15C-510
<b>Alternate Fuel</b>						
4401639*	6225F-510	62-5F	18"	90°	25-100C-540	25-50C-510

\* CGA 300 connection available upon request.

## Cutting Torches / Handles

### Cutting Torches

- “E” or positive pressure torches for acetylene and alternate fuels.
- “F” or low pressure injector torches for maximum performance with alternate fuels.  
(Not for use with acetylene.)

#### Model 62-5 Hand Cutting Torches

- Cuts to 12".
- Solid forged head.
- Triangular tube design.
- Brazed connections.
- Equipped with Flash Guard® check valves.
- U.L. listed.
- Other lengths and heads available.



Part No.	Model No.	Head	Length
1003430	62-5E	90°	18"
1003450	62-5F	90°	18"
1003233*	V-62-5EL	90°	21"
1003261*	V-62-5FL	90°	21"

\* Victor® compatible

#### Model 42-4 Hand Cutting Torches

- Cuts to 6".
- Lightweight.
- Solid forged head.
- Triangular tube design.
- Brazed tube connections.
- Equipped with Flash Guard® check valves.
- U.L. listed.
- Other lengths and heads available.



Part No.	Model No.	Head	Length
1001204	42-4E	90°	17"
1001210	42-4F	90°	17"

#### Model 880 Hand Cutting Torches

- Cuts to 8" with acetylene.
- Cuts to 6" with alternate fuel.
- Models available for acetylene and low pressure alternate fuels.
- Unique patented head mix system.
- Stainless steel cutting oxygen lever with locking clip.
- In-line tube design for better visibility.
- Equipped with Flash Guard® check valves.
- Protected internal tip nut threads.
- Ease-on cutting oxygen valve.
- Solid forged head.



Part No.	Model No.	Head	Length
1001500	880-E	90°	19"
1001501	880-F	90°	19"

### Machine Cutting Torches

Harris machine cutting torches are designed to handle all types of machine cutting applications. Rugged and dependable, these torches provide up to 8" cutting capacity. The 98-6 series torches are available in two-hose design for all fuel gases at pressures as low as 4 oz.

#### Model 98-6 Machine Torch

- Rugged and dependable, providing up to 15" cutting capacity.
- Solid head for maximum strength.
- Standard 1-3/8" diameter barrel.
- Equipped with Flash Guard® check valves.
- Lightweight.
- With a 32 pitch rack.
- U.L. listed.



Part No.	Model No.	Style	Barrel
1101425	98-6ER-32	2 hose & rack	10"
1101455	98-6FR-32	2 hose & rack	10"

### Torch Handles

- Equipped with Flash Guard® check valves.
- U.L. listed.



Part No.	Model No.	Duty
1401340	85	Medium
1401150	43-2	Heavy
1400402*	V-100C	Medium
1400315*	V-315C	Heavy

\* V-series = Victor® compatible



## Cutting Tips and Attachments / Mixers

### Cutting Attachments



Part No.	Description	Handle	Mixer
1300380	72-3	85	"E"
1300340	73-3	43-2, 63-2, 18-5	"E"
1300440	49-3F	43-2, 63-2, 18-5	"F"
1300512*	V-2460	Harris V-315C, Victor® 315C series, Medalist® 350 series	"E"
1300506*	V-1350	Harris V-100C, Victor® 100 series, Medalist® 260 series	"E"
1300523*	V-2460F	Harris V-315C, Victor® 315C series, Medalist® 350 series	"F"

\* V-series = Victor® compatible

### Mixers



Part No.	Mixer	Handle	Tip Tubes	Acetylene	
				Welding Tips	Heating Tips
9100312	E-43	43-2, 63-2, 18-5		23A90-0 thru 10	J-63-1 and 2
			8593	1390-0 thru 10	1390-HA
9100614	D-85	85		23A90-0 thru 10	J-63-1 and 2
			8593	1390-0 thru 10	1390-HA
9105213*	V-W-1	V-100C		23A90	J-63-1 and 2
9105214*	V-W	V-315C			

\* V-series = Victor® compatible

### Cutting Tips

#### 6290

For use with positive pressure "E" torches.

- For Oxygen/acetylene.



Part No.	Model No.	Metal Thickness
1500810	6290-000	to 3/16"
1500820	6290-00	to 3/8"
1500830	6290-0	to 5/8"
1500840	6290-1	to 1"
1500850	6290-2	to 2"
1500860	6290-3	to 3"
1500870	6290-4	to 4"
1501510	6290-5S	to 8"
1501520	6290-6S	to 12"

#### 6290-NX

- For propane, natural gas.



Part No.	Model No.	Metal Thickness
1501200	6290-000NX	to 3/16"
1501210	6290-00NX	to 3/8"
1501220	6290-0NX	to 5/8"
1501230	6290-1NX	to 1"
1501240	6290-2NX	to 2"
1501250	6290-3NX	to 3"
1501260	6290-4NX	to 4"
1501270	6290-5NX	to 8"
1501280	6290-6NX	to 12"

### V-Series Cutting Tips

#### V1-101 and V3-101

- For Oxygen/acetylene.
- Victor® compatible.



Part No. V-1-101 tips	Part No. V-3-101 tips	Tip Size	Plate Thickness
1502088	1502080	000	1/8"
1502089	1502081	00	1/8-5/16"
1502090	1502082	0	5/16-5/8"
1502091	1502083	1	5/8-1"
1502092	1502084	2	1-2"
1502093	1502085	3	2-3"
1502094	1502086	4	3-4"
1502095			4-6"
1502096			6-8"

#### GPN and 3GPN

- For propane, natural gas.
- Victor® compatible.

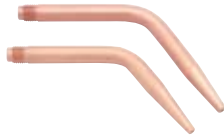


Part No. GPN tips	Part No. 3GPN tips	Tip Size	Plate Thickness
1502300	1502309	000	1/8"
1502301	1502310	00	1/8-5/16"
1502302	1502311	0	5/16-5/8"
1502303	1502312	1	5/8-1"
1502304	1502313	2	1-2"
1502305	1502314	3	2-3"
1502306	1502315	4	3-4"
1502307		5	4-6"
1502308		6	6-8"

## Welding Tips / Safety Accessories / Cutting Machine

### Welding Tips

**Model 23A90**  
For acetylene



Part No.	Tip Size	Metal Thickness	Oxygen Pressure	Acetylene Pressure
1600840	0	1/64"	1	1
1600850	1	1/32"	1	1
1600860	2	3/64"	2	2
1600870	3	1/16"	3	3
1600880	4	3/32"	4	4
1600890	5	1/8"	5	5
1600910	7	1/4"	7	7
1600940	10	1/2"	10	10

### Harris Flash Guard® Flashback Arrestors

Prevents reverse flow of gases with built-in check valves. Extinguishes flashback fire with stainless steel sintered element. 9/16" -18 connections.



**Torch Type**  
 • Model 88-5FBT (R&L)  
 • Sold in pairs only.  
**Part No. 4301650**



**Regulator Type**  
 • Model 88-5FBR (R&L)  
 • Sold in pairs only.  
**Part No. 4301651**

### Harris Flash Guard® Check Valves

Check valves fully open with only ounces of pressure. If reverse flow starts, the valve closes immediately for total shutoff. 9/16"-18 connections.



**Torch Type**  
 • Model 88-6CVR (R&L)  
**Part No. 4300390**



**Regulator Type**  
 • Model 88-6CVT (R&L)  
**Part No. 4300389**

### Quick Connectors

Long lasting stainless steel pin connection. Automatic gas cut off feature to positively shut off supply when disconnected. 9/16"-18 connections.



**Torch Type**  
 • Model 26-QCT (R&L)  
**Part No. 4301654**



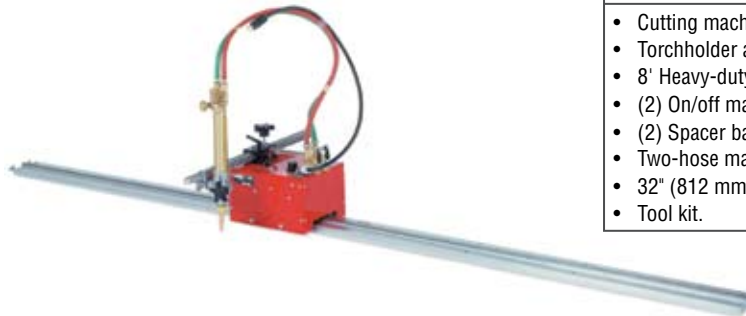
**Regulator Type**  
 • Model 88-QCR (R&L)  
**Part No. 4301653**

### Harris Straight Line Cutting Machine

The Harris Straight Line Cutting Machine can be used for flame and plasma cutting. Each machine comes with on/off magnets for easy set-up and positive positioning on magnetic material. Included with every machine is a quick-acting manifold which eliminates the need to reset the torch when flame cutting. It's easy to take to the jobsite. It's compact, lightweight and has a convenient carrying handle. Cut surfaces are smooth and accurate so that grinding and restarts are basically eliminated.

- Positive rack and pinion drive.
- Wide speed range (5-100 IPM).
- Dynamic brake.
- Convenient carrying handle.
- Torch holder assembly for standard 1-3/8" barrel/32 pitch rack.
- Use with 98-6 torches.

**Part No. 4300950** (torch not included)



Technical Data	
Power Requirements	120 VAC/50-60/1
Travel Speed	Infinitely variable from 5-100 IPM
Load Capacity	15 lbs. vertical, 60 lbs. horizontal
Magnet Holding Capacity	150 lbs.

Standard Package Includes:
• Cutting machine.
• Torchholder assembly.
• 8' Heavy-duty rail (4300953).
• (2) On/off magnet plate assembly (4300952).
• (2) Spacer bar assembly (4300951).
• Two-hose manifold.
• 32" (812 mm) Twin hose assembly.
• Tool kit.



## Shielding Gas Kit / Regulators

### Shielding Gas Kit

A complete package for shielding gas supply to your MIG or TIG machine.

Kits are available with Flowgauge or Flowmeter regulators.

- Flowgauge regulator features 2" easy-to-read Argon/CO<sub>2</sub> Dual Scale Gauges.
- Kit contains 10' of 3/16" approved hose with inert gas fittings.
- Flowgauge kit features: Model 301 regulator.
- Flowmeter kit features: Model 355 regulator.



Part No. 4400229

Part No.	Model No.	Gas	Flow Capacity SCFH	Regulator Type	Accessories
4400229	301AR-58010	Argon	0-60	Flowgauge	3/16" x 10' hose
4400231	301CD-32010	Carbon Dioxide			
4400235	355-2AR-58010	Argon	0-70	Flowmeter	
4400234	355-2CD-32010	Carbon Dioxide			

## Single Stage Regulators

### Model 25

This medium duty regulator is the traditional workhorse of the Harris regulator line. A time proven design for those who want an economical, high performance regulator. Now features one-piece encapsulated seat design with an internal filter and a PTFE Teflon® seat.

- 0-15, 0-50, 0-100, 0-200 and 0-500 PSIG delivery pressure.
- Chrome-plated bonnet with brass adjusting screw for smooth adjustment.
- Forged brass body.
- 1/4" NPT inlet stem.
- 2" dual scale gauges.
- U.L. Listed.
- 3 year warranty.



Part No. 3000510

Part No.	Model No.	Gas	Delivery Pressure		Supply Pressure	Outlet Connection
			Range PSIG	Gauge PSIG	Gauge PSIG	
3000350	25-15C-300	Acetylene	0-15	30	400	9/16"-18 LH
3000380	25-15C-510					
3000450	25-50C-510P	Propane*	0-50	60	400	
3000510	25-100C-540	Oxygen	0-100	150	4000	9/16"-18 RH
3000540	25-100C-580	Ar, N <sub>2</sub> , He				9/16"-18 RH**
3000806	25-200C-580	N <sub>2</sub>				0-200
<b>HVAC Regulator</b>						
3000606	25-500C-580	Ar, He, N <sub>2</sub>	0-500	1000	4000	1/4 x 1/4 flare

\* Regulator designated for propane service can be used with any of the other welding grade liquid petroleum gases.

\*\* 5/8- 18 adapter is included.

## Single Stage Regulators Model 425

- One-piece encapsulated seat design with an internal filter and a PTFE Teflon® seat.
- Bronze adjusting screw for smooth adjusting.
- Brass bonnet and body.
- 2-1/2" dual scale gauges.
- Conforms to CGA E-4 standard for gas pressure regulators.
- Featured in the Pipeliner® Pro and Classic outfits.



Part No.	Model No.	Gas	Delivery Pressure		Supply Pressure	Outlet Connection
			Range PSIG	Gauge PSIG	Gauge PSIG	
3000816	425-15-300	Acetylene	0-15	30	400	9/16"-18 LH
3000815	425-15-510					
3000762	425-125-346	Medical Air	0-125	200	4000	9/16"-18 RH
3000714	425-125-540	Oxygen				

## Model 2500

This is the Harris premium regulator offering. The regulator features a stainless steel diaphragm for use in the most abusive environments.

- 0-15, 0-50 and 0-125 PSIG delivery pressure.
- Stainless steel diaphragm.
- One-piece encapsulated seat design with an internal filter and a PTFE Teflon® seat.
- Tamper proof, self reseating internal HP safety valve.
- Corrosion resistant brass bonnet and bronze adjusting screw.
- Over 15" cutting capacity.
- 2-1/2" dual scale gauges.
- Conforms to CGA E-4 standard for gas pressure regulators.
- 3 year warranty.



Part No.	Model No.	Gas	Delivery Pressure		Supply Pressure	Outlet Connection
			Range PSIG	Gauge PSIG	Gauge PSIG	
3002508	2500-15-300	Acetylene	0-15	30	400	9/16"-18 LH
3002500	2500-15-510					
3002502	2500-50-510P	Propane*	0-50	100	400	
3002511	2500-50-540	Oxygen			4000	
3002504	2500-125-540	Oxygen	0-125	200	4000	9/16"-18 RH

\* Regulator designated for propane service can be used with any of the other welding grade liquid petroleum gases. Not for use with acetylene.

## Single Stage High Flow Manifold Regulator Model 3500

This specially designed regulator provides high gas flows from cylinders and manifold gas supply systems. It is ideal for special high flow applications such as heavy cutting and heating. Has optional 3/8" outlet port.

- 0-125, 0-400 and 0-600 PSIG delivery pressure.
- Designed to operate on H.P. cylinders of up to 5500 PSIG.
- Large 2-3/4" neoprene diaphragm.
- Tamper proof, self seating internal H.P. safety valve.
- One-piece encapsulated seat design with an internal filter and a PTFE Teflon® seat.
- Corrosion resistant brass body and bonnet.
- Additional high capacity 3/8" NPT outlet 180° from inlet.
- 2-1/2" dual scale gauges.
- Conforms to CGA E-4 standard for gas pressure regulators.
- 3 year warranty.
- 1/4" plug P/N 9000306
- 3/8" plug P/N 9000373



Part No.	Model No.	Gas	Maximum Inlet PSIG	Delivery Pressure		Supply Pressure	Outlet Connection
				Range PSIG	Gauge PSIG	Gauge PSIG	
3003507	3500-125-680	Ar, N <sub>2</sub> , He	5500	0-125	200	6000	5/8"-18 RH (F)
3003500	3500-125-540	Oxygen	3000			4000	9/16"-18 RH
3003540	3500-400-580	Ar, N <sub>2</sub> , He	3000	0-400	600	4000	3/8"-18 NPT (M)
3003541	3500-600-580			0-600	1000		



## Regulators

### High Pressure Single Stage Regulator Model 8700

High pressure regulator, designed to operate on high pressure cylinders up to 7500 PSIG.

All inert gas and air models are self-relieving.

- One-piece encapsulated valve design with CTFE seats and an internal filter.
- Elastometric diaphragm for longer life.
- 1/4" NPT stainless steel Swagelok® outlet.
- 2-1/2" dual scale gauges (PSI/Bar).
- Conforms to CGA E-4.
- Model 8700 panel mount kit P/N: 9100887.
- **Outlet Connections:** 1/4" SS tube fitting.



Part No.	Model No.	Gas	Delivery Pressure		Supply Pressure
			Range PSIG	Gauge PSIG	Gauge PSIG
3200300	8700-1500-580	N <sub>2</sub> , Ar, He	0-1500	3000	4000
3200301	8700-2500-580		0-2500	4000	
3200302	8700-1500-350	H <sub>2</sub> , Methane	0-1500	3000	4000
3200303	8700-2500-350		0-2500	4000	
3200304	8700-1500-590	Industrial Air	0-1500	3000	4000
3200305	8700-2500-590		0-2500	4000	
3200306	8700-1500-540	Oxygen	0-1500	3000	4000
3200307	8700-2500-540		0-2500	4000	
3200310	8700-1500-346	Medical Air	0-1500	3000	4000
3200311	8700-2500-346		0-2500		
3200312	8700-1500-347		0-1500	3000	
3200314	8700-3000-347		0-3000	4000	
3200315	8700-4500-347		0-4500	6000	
3200316	8700-1500-695	H <sub>2</sub> , Methane	0-1500	3000	6000
3200318	8700-3000-695		0-3000	4000	
3200319	8700-4500-695		0-4500	6000	
3200320	8700-1500-677	N <sub>2</sub> , Ar, He	0-1500	3000	10000
3200321	8700-3000-677		0-3000	4000	
3200322	8700-4500-677		0-4500	6000	
3200323	8700-6000-677		0-6000	10000	
3200324	8700-1500-680		0-1500	3000	
3200326	8700-3000-680	0-3000	4000	6000	
3200327	8700-4500-680	0-4500	6000		

Additional models available, call customer service for details.

### Model 355-2 Flowmeter Regulator

- Regulator is pre-set at 20 PSIG.
- Construction incorporates the regulator and flowmeter into one compact unit.
- Flow tube and float are easily changed for different gases.
- Dual calibration on Argon/Carbon Dioxide flow tube.
- Sensitivity needle valve for fingertip control.
- One-piece encapsulated seat design, with an internal filter and PTFE seat.
- Durable, easy-to-read flow tube and cover.
- Conforms to CGA E-4 Standard for Gas Pressure Regulators.
- 3 year warranty



Part No. 3100200

Part No.	Model No.	Gas	Flow Capacity SCFH	Outlet Connection
3100200	355-2-Ar-580	Argon (CO <sub>2</sub> )	0-70	5/8" -18 (F)
3100201	355-2-CD-320	Carbon Dioxide (Ar)	0-70*	

\* On maximum continuous duty cycle, CO<sub>2</sub> flow to 20 SCFH.

### Model 356 Single Stage Dual Flowmeter Regulator

- Model 301 Regulator with two Model 55 type flowmeters.
- Ideal for back purge TIG welding.
- 3 year warranty



Part No. 3100140

Part No.	Model No.	Gas	Flow Capacity SCFH	Outlet Connection
3100140	356-Ar/He-580	Argon/Helium	0-45 (0-140) @ 20 PSIG	5/8" -18 (F)

### Liquid Cylinder Regulator Model 330

This specially designed regulator allows for gaseous withdrawal from oxygen, carbon dioxide, argon and nitrogen liquid cylinders.

- 0-125, 0-350 and 0-500 PSIG delivery pressure.
- Large 2-3/4" stainless steel diaphragm.
- PTFE Teflon® seals.
- One-piece encapsulated seat design with an internal filter and a PTFE Teflon® seat.
- Tamper proof, self reseating internal H.P. safety valve.
- Corrosion resistant forged brass body and bonnet.
- Designed specifically to operate on liquid cylinders but can be used on high pressure cylinders without damage.
- 2-1/2" dual scale gauge.
- Conforms to CGA E-4 standard for gas pressure regulators.
- 3 year warranty.



Part No.	Model No.	Gas	Delivery Pressure		Outlet Connection
			Range PSIG	Gauge PSIG	
3001090	330-125-540	Oxygen	0-125	200	9/16"-18 RH
3001091	330-125-580	Ar, N <sub>2</sub>			
3001092	330-125-320	CO <sub>2</sub>			
3001093	330-350-540	Oxygen	0-350	500	9/16"-18 RH
3001094	330-350-580	Ar, N <sub>2</sub>			
3001095	330-350-320	CO <sub>2</sub>			
3001097	330-500-540	Oxygen	0-500	600	1/4"-NPT (M)
3001098	330-500-580	Ar, N <sub>2</sub>			
3001099	330-500-320	CO <sub>2</sub>			





## Regulators / Cutting Torches

### Two Stage Regulators Model 9296

The Model 9296 regulator is designed for applications where a constant delivery pressure is required over a wide range of inlet pressure. A standard for general purpose laboratory, industrial and welding applications where neoprene diaphragms are acceptable.

- 0-15, 0-50, 0-125 and 0-250 PSIG delivery pressure.
- Neoprene diaphragms for greater sensitivity.
- One-piece encapsulated seat design with an internal filter and PTFE Teflon® seats.
- Model 9296SS available with stainless steel diaphragms, call customer service for details.
- Tamper-proof, self reseating internal H.P. safety valve.
- Brass body.
- 2" dual scale gauges.
- Conforms to CGA E-4 standard for gas pressure regulators.
- 3 year warranty.



Part No.	Model No.	Gas	Maximum Inlet PSIG	Delivery Pressure		Supply Pressure Gauge PSIG	Outlet Connection
				Range PSIG	Gauge PSIG		
3302600*	9296NC-15-300	Acetylene	500	0-15	30	400	9/16"-18 LH
3302601*	9296NC-15-510	Acet./fuel gas		0-50	60		
3302602	9296-50-510P	Propane		0-125	150		
3302604	9296-125-540	Oxygen	3000	0-250	400	4000	9/16"-18 RH
3302605	9296-250-540			0-125	150		5/8"-18 RH (F)
3302608	9296-125-580	Ar, He, N <sub>2</sub>		0-250	400		1/4" NPT (F)
3302609	9296-250-580						

\* **Note:** Low pressure models designated with NC use a neoprene seat in the second stage for improved performance.



### Metalcraft™ Hand Cutting Torches

- 9/16"-18 connections.
- 180° model.
- Built-in flash arrestors & reverse flow check valves.
- Cuts from 1/8" to 6".
- Uses series 1 cutting tips.
- 17" - 48" overall lengths.
- Two year warranty.



Part No. 0381-0750

Part No.	Torch Length	Model No.
0381-0876	36"	ST 932FC
0381-0879	48"	ST 952FC

### Metalcraft™ Acetylene Tips

General purpose hand and machine torch cutting on clean plate.

- Medium preheats (6).
- Copper alloy.
- Victor tip style.



Part No.	Metal Thickness	Tip Series	Tip Type	Model No.
5407-4460	1/4"	1	101	1-101-00
5407-4461	1/2"	1	101	1-101-0
5407-4462	3/4"	1	101	1-101-1
5407-4463	1-1/2"	1	101	1-101-2
5407-4464	2"	1	101	1-101-3
5407-4465	4"	1	101	1-101-4
5407-4471	1/4"	3	101	3-101-00
5407-4472	1/2"	3	101	3-101-0
5407-4473	3/4"	3	101	3-101-1
5407-4474	1-1/2"	3	101	3-101-2
5407-4475	2"	3	101	3-101-3



Hose is made of Neoprene, both tube and cover. It is suitable for all welding fuel gases.

## Cutting Equipment / Complete Outfits

### 300 Series Heavy-Duty Outfits

Designed for heavy-duty welding and cutting applications. The MetalCraft 300 series outfits provide heavy-duty performance in industrial and construction environments. This kit contains the basic components for general welding and cutting.

- Heavy-duty apparatus.
- Capacity: Cut up to 8" and weld up to 3" with proper tips.
- Attractive display box.
- Contents: WH-370FC-V handle, CA370V cutting attachment, 300 Series oxygen and acetylene regulators, 0-1-101 cutting tip, and 2 W welding tip.
- CGA 300 and 510 models.
- Deluxe models include 25' x 1/4' hose, goggles and striker.
- Standard models available.
- Made in the U.S.A.
- Two year warranty.



Part No.	Model No.	CGA	Type
0384-0770	350-510DLX	510	Deluxe
0384-0774	350-300DLX	300	Deluxe

### 200 Series Medium-Duty Outfits

MetalCraft 200 Series outfits are designed to meet your medium-duty welding and cutting applications in industry, home and trade environments. These kits contain the basic components needed for general welding and cutting.

- Medium-duty apparatus.
- Capacity: Cut up to 5" and weld up to 1-1/4" with proper tips.
- Attractive display box.
- Contents: WH-270FC-V handle, CA-270V cutting attachment, 250 Series oxygen and acetylene regulators, 0-3-101 cutting tip, and 0-W-1 welding tip.
- CGA 300.
- Deluxe models include 20' x 3/16' hose, goggles and striker.
- Standard models available.
- Made in the U.S.A.
- Two year warranty.



Part No.	Model No.	CGA	Type
0384-0720	250-510DLX	510	Deluxe
0384-0724	250-300DLX	300	Deluxe

### 100 Series Light-Duty Outfits

MetalCraft 100 Series outfits are designed to meet home and shop welding and cutting requirements for light-duty applications. These kits contain the basic apparatus for light-duty applications.

- Light-duty apparatus.
- Capacity: Cut up to 4" and weld up to 1" with proper tips.
- Attractive display box.
- Contents: WH-270FC-V handle, CA270V cutting attachment, 100 Series oxygen and acetylene regulators, 0-3-101 cutting tip, and 0-W-1 welding tip.
- CGA 300 and 510 models.
- Deluxe models include 12-1/2' x 3/16' hose, goggles and striker.
- Standard models available.
- Made in the U.S.A.
- Two year warranty.



Part No.	Model No.	CGA	Type
0384-0700	100-510DLX	510	Deluxe
0384-0701	100-510STD	510	Standard

## Cutting / Welding / Heating Outfits

### Dual Guard™ Heavy Duty Cutting, Welding & Brazing Outfits

Cuts up to 8"- welds up to 1"

These premium heavy duty outfits feature Smith's revolutionary Dual Guard™ system which combines a flashback arrestor built into the torch head with proven in-tip gas mixing technology. This combination greatly improves operator safety and increases torch life. Dual Guard™ torches are covered by Smith's Lifetime Warranty, the longest and strongest in the industry. Smith regulators are covered by a 3 year limited warranty. The outfits feature rugged, highly accurate regulators with 2-1/2" gauges and shatter resistant polycarbonate lenses. Outfits are complete with safety and operations manual. All outfits include 2 cutting tips, welding tip, heating tip, tip cleaner.



Part No. HD-510

Part No.	Fuel Gas	Torch Handle	Cutting Attachment	Cutting Tip	Welding Tips	Heating Tip	Oxygen Regulator	Fuel Gas Regulator	Accessories
HD-H510A	Acetylene	WH200	DG209	SC12-00 SC12-1	SW205	ST603	HB1510-540 CGA 540	HB1521-510 CGA 510	Lighter, goggles, 20 ft. 1/4" twin hose, tip cleaner, manual.
HD-H300A	Acetylene	WH200	DG209	SC12-00 SC12-1	SW205	ST603	HB1510-540 CGA 540	HB1520-300 CGA 300	Lighter, goggles, 20 ft. 1/4" twin hose, tip cleaner, manual
HD-H510	Acetylene	WH200	DG209	SC12-00 SC12-1	SW205	ST603	HB1510-540 CGA 540	HB1521-510 CGA 510	Tip cleaner
HD-H300	Acetylene	WH200	DG209	SC12-00 SC12-1	SW205	ST603	HB1510-540 CGA 540	HB1520-300 CGA 300	Tip cleaner

**NOTE:** Capacity with tips supplied in outfit: cuts up to 5/8", welds up to 1/8". Torch Handle includes reverse flow check valves.

### Dual Guard™ Heavy Duty Toolbox Outfits

Cuts up to 8"- Welds up to 1"

These premium heavy duty outfits feature a rugged, high impact plastic toolbox with steel latches to safely transport oxy-fuel equipment. Also features Smith's revolutionary Dual Guard™ system which combines a flashback arrestor built into the torch head with our proven in-tip gas mixing technology. This combination greatly improves operator safety and increases torch life. Dual Guard™ torches are covered by Smith's Lifetime Warranty, the longest and strongest in the industry. Smith Series 30™ regulators are covered by a 3 year limited warranty. Features rugged, highly accurate regulators with 2" gauges and shatter resistant polycarbonate lenses. Complete with safety and operations manual.



Part No. HD-510T

Part No.	Fuel Gas	Torch Handle	Cutting Attachment	Cutting Tip	Welding Tips	Heating Tip	Oxygen Regulator	Fuel Gas Regulator	Accessories
HD-510T	Acetylene	WH200	DG209	SC12-0 SC12-1	SW205	ST603	30-100-540 CGA 540	30-15-510 CGA 510	Lighter, goggles, 20 ft. 3/16" hose, check valves, tip cleaner

**NOTE:** Capacity with tips supplied in outfit: cuts up to 5/8". Torch Handle includes reverse flow check valves.

Also available: **Part No. HD-300T** - CGA 300 version

## Cutting / Welding & Heating Outfits

### Dual Guard™ Heavy Duty Hand Cutting Torch Outfits

Cuts up to 24"

Smith's heavy-duty hand cutting torch outfits are built for the toughest jobs. They feature the SC229 straight cutting torch with restarts. All torches are covered by Smith's Lifetime Warranty. The outfits feature rugged, highly accurate regulators with shatter resistant polycarbonate lenses. Regulators are covered by a 3 year limited warranty. Outfits are available in boxed outfits with premium heavy duty regulators or in the tool box style with Series 30™ medium duty regulators.



Part No. HT3-H510S



Part No. HT2-MD510T

#### Straight Hand Torch Outfits with Heavy Duty Regulator with Hard Hat™

Part No.	Fuel Gas	Cutting Torch	Cutting Tip	Oxygen Regulator	Fuel Gas Regulator
HT3-H510S	Acetylene	SC229	SC12-2	HB1510A-540S	HB1521B-510S*
HT3-H300S	Acetylene	SC229	SC12-2	HB1510A-540S	HB1520B-300S*

\* Includes Hard Hat™ protect gauges from damage for greater safety and less repair.

#### Straight Hand Torch Toolbox Outfits with Series 30™ Medium Duty Regulator

Part No.	Fuel Gas	Cutting Torch	Cutting Tip	Oxygen Regulator	Fuel Gas Regulator	Accessories
HT2-MD510T	Acetylene	DG229	SC12-1 SC12-2	30-100-540 CGA 540	30-15-510 CGA 510	Soft side goggles, lighter, 20' x 3/16" twin hose, check valves, tip cleaner & operations manual
HT2-MD300T	Acetylene	DG229	SC12-1 SC12-2	30-100-540 CGA 540	30-15-300 CGA 300	

### Dual Guard™ Medium Duty Cutting, Welding & Heating Outfits

Cuts up to 6"- Welds up to 1/2"

These premium outfits feature quality construction throughout and are built to provide reliability and extended service. Toolbox outfits feature a rugged, high impact plastic toolbox. Torches feature Smith's revolutionary Dual Guard™ design which combines a flashback arrestor built into the torch head with our proven in-tip gas mixing technology. This combination greatly improves operator safety and increases torch life. Dual Guard™ torches are covered by Smith's Lifetime Warranty, the longest and strongest in the industry. The outfits feature rugged, highly accurate Series 30™ regulators which include Smith's Sure-Seat™ filtered seat technology and shatter resistant polycarbonate lenses. Regulators are covered by a 3 year limited warranty. Outfits are complete with safety and operations manual.



Part No. MD-510T



Part No. MD-510A



Part No.	Fuel Gas	Torch Handle	Cutting Attachment	Cutting Tip	Welding Tips	Heating Tip	Oxygen Regulator	Fuel Gas Regulator	Accessories
MD-510A	Acetylene	WH100	DG109A	MC12-0 MC12-1	MW205	MT603	30-100-540 CGA 540	30-15-510 CGA 510	Soft side goggles, lighter, 20' x 3/16" twin hose, check valves, tip cleaner & operations manual
MD-510T*	Acetylene	WH100	DG109A	MC12-0 MC12-1	MW205	MT603	30-100-540 CGA 540	30-15-510 CGA 510	
MD-300T*	Acetylene	WH100	DG109A	MC12-0 MC12-1	MW205	MT603	30-100-540 CGA 540	30-15-300 CGA 300	
MD-510MPT*	MAPP®, Propylene	WH100	DG109A	MC90-1		MT815	30-100-540 CGA 540	30-50-510 CGA 510	
MD-510LPT*	Propane	WH100	DG109A	MC40-1		MT615	30-100-540 CGA 540	30-50-510 CGA510	
MD-510	Acetylene	WH100	DG109A	MC12-0 MC12-1	MW205	MT603	30-100-540 CGA 540	30-15-510 CGA 510	Check valves only

\* Tool Box Outfit

**NOTE:** Capacity with tips supplied in outfits: cuts up to 5/8", welds up to 1/8". Reverse flow check valves- torch handle mount.

**NOTE:** Toolbox outfits minimum order - 2 of the same part no., ship 2 to a carton.

## Cutting & Welding Outfits

### Toughcut™ Medium Duty Cutting & Welding Outfits

**Cuts up to 6" – welds up to 1/2"**

Versatile Toughcut™ cutting and welding outfits include many features found on more expensive outfits. The Toughcut™ series is perfect for a multitude of applications such as farm, ranch, hobby, automotive, refrigeration, light fabrication, and repair. Outfits are available with rugged, reliable Smith Series 30™ medium duty regulators. The torch and regulators are covered by a 3 year limited warranty. Complete operation and instruction manual also included. All outfits include 1 cutting tip, welding tip and reverse flow check valves.



Part No. MB55A-510

Part No.	Fuel Gas	Torch Handle	Cutting Attachment	Cutting Tip	Welding/ Brazing Tip	Heating Tip	Oxygen Regulator	Fuel Gas Regulator	Accessories
MB54A-510	Acetylene	CW5A	CC509P	MC12-1	MW205		30-100-540 CGA 540	30-15-510 CGA 510	Goggles, lighter, twin hose, check valves
MB54A-300	Acetylene	CW5A	CC509P	MC12-1	MW205		30-100-540 CGA 540	30-15-300 CGA 300	
MB55A-510	Acetylene	CW5A	CC509P	MC12-1	MW205	MT603	30-100-540 CGA 540	30-15-510 CGA 510	
MB55A-300	Acetylene	CW5A	CC509P	MC12-1	MW205	MT603	30-100-540 CGA 540	30-15-300 CGA 300	
MB54-510L	Acetylene	CW5A	CC509P	MC12-1	MW205		30-100-540 CGA 540	30-15-510 CGA 510	Check valves & soft side goggles
MB54-300L	Acetylene	CW5A	CC509P	MC12-1	MW205		30-100-540 CGA 540	30-15-300 CGA 300	

**NOTE:** Capacity with tips supplied in outfit: cuts up to 5/8", welds up to 1/8"

### The Little Torch™ Outfit For Disposable Tanks

Great for jewelry repair & manufacture, hobby & crafts, metal sculpture, glass blowing, plumbing, electronics & repair. Hoses may be connected to any standard oxy-fuel regulators



*The Little Torch™*



Part No. 23-1001D

Part No.	Description
23-1001D	Includes torch, 5 curved tips, 8' hose and instruction manual. Packaged in display box as shown ("B" hose connections fuel 9/16"-18-LH, Oxygen 9/16"-18-RH)
23-1003	Kit with regulator fitted for acetylene (for "MC" tank) 10 cu. ft. cylinder. Includes 11-1104C torch, #2-6 tips, 30-15-200 fuel regulator, 30-20-540 oxygen regulator, check valves, 8' (2.4 m) covered hoses and instruction manual.
23-1003B	Includes torch, #2-6 tips, 30-15-520 acetylene regulator (for "B" 40 cubic foot tank), 30-20-540 oxygen regulator, reverse flow check valves, 8' (2.4 m) covered hoses and instruction manual.
23-1003P	Kit with regular fitting for propane or larger industrial acetylene cylinders over 40 cubic feet. Includes 11-1101C torch, #3-7 tips, 30-15-510 fuel regulator, 30-20-540 oxygen regulator, reverse flow check valves, 8' (2.4 m) covered hoses and instruction manual.
23-1014	Includes 249-499 oxygen regulator, 249-500 propane regulator for disposable tanks, cylinder holder, 11-1101C torch, #5 tip, 8' hose and instruction manual. Allows maximum portability and may be used in locations where larger pressurized cylinders are not allowed.

### Replacement Tips



Part No. 12-1401-07



Part No. 1-1402-03



Part No. 129-124-04

Part No.			Size	Use with Oxygen and:
Single Flame Curved	Twin Flame	Straight		
12-1401-02			2	Acetylene & hydrogen only
12-1401-03	12-1402-03		3	
12-1401-04	12-1402-04	129-124-04	4	
12-1401-05	12-1402-05		5	
12-1401-06	12-1402-06		6	
12-1401-07			7	

## Cutting Torches

### Dual Guard™ - Extra Heavy Duty

#### Cuts Up To 24"

Dual Guard™ hand cutting torches are built for the toughest jobs. They feature a built-in head flashback arrestor, reversible cutting lever and ease-on oxygen for smooth starts. It's also designed with a heavy wall manganese bronze head for durability and resistance to heat warping. All Dual Guard™ torches are covered by Smith's Lifetime Warranty. **100% tested and inspected.**

- 3 tube "in-tip" mix design keeps gases separated until reaching the tip.
- Reversible lever, for top or bottom mounting.
- Exceptional ease-on oxygen feature.
- Uses long lasting "Soft Seat" Graf-Tite® cutting tips.
- Replaceable hose connections.
- Wide array of cutting, gouging and specialty tips available.
- Versatile- for use with acetylene, propane, propylene, MAPP® and many other gases.
- Superior "ease-on" cutting jet action reduces tip-clogging and slag blow-back in piercing operations.



Part No. DG929B

Part No.	Head Angle	Length	Weight	Tips
DG925B	75°	21"	3-1/2 lbs.	<b>Oxygen/ Acetylene:</b> SC12-00 thru SC12-6, SC56-1 thru SC56-9 <b>Oxygen/ propane Oxygen/ propane based:</b> SC40-0 thru SC40-4, SC46-2, SC46-4 & SC46-6, SC50-0 thru SC50-9
DG929B	90°	21"	3-1/2 lbs.	<b>Oxygen/ propylene:</b> SC60-1, SC60-2, SC2-2, SC2-4 <b>Oxygen/ MAPP®:</b> SC90-00 thru SC90-5, SC56-1 thru SC56-9

**NOTE:** Includes sintered inlet filters.

### Gas Axe™ - Extra Heavy Duty

#### Cuts Up To 24"

Safety engineered and designed for severe cutting application; excellent for use with propane, natural gas, acetylene, and MAPP® gas. Smith's extra heavy duty Gas Axe™ is designed for high-speed severe service scrap and demolition cutting and extra high capacity cuts up to 24" thick.

- Manganese bronze head provides super tough thick walls to prevent head heat warping and damage.
- Three tube construction keeps gases separated, eliminating mixing tube burnout. Smith's thick wall, high capacity stainless steel tubes with reinforced tube supports provide high gas flow and superior strength.
- Reversible ergonomic ribbed handle adds comfort and reduces operator fatigue.
- Stainless steel ball-style valve provided smooth adjustment and positive seating for easy shut-off.
- Hose connections are replaceable if the threads should become damaged.
- 1 year limited warranty.



Part No. SC225

Part No.	Head Angle	Length	Tips
SC935	75°	3'	<b>Oxygen/ Acetylene:</b> SC12-00 thru SC12-6, SC56-1 thru SC56-9
SC939	90°	3'	
SC930	180°	3'	
SC945	75°	4'	
SC949	90°	4'	<b>Oxygen/ propane, Oxygen/ propane based:</b> SC40-0 thru SC40-4, SC46-2 thru SC46-6, SC50-0 thru SC50-9
SC940	180°	4'	
SC955	75°	5'	<b>Oxygen/ propylene:</b> SC60-0 thru SC60-6, SC2-2, SC2-4
SC959	90°	5'	
SC950	180°	5'	<b>Oxygen/ MAPP®:</b> SC90-00 thru SC90-5, SC56-1 thru SC56-9
SC965	75°	6'	
SC969	90°	6'	
SC960	180°	6'	

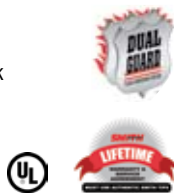
## Cutting Torches

### Dual Guard™ - Standard Duty

Cuts Up To 12"

Features solid construction and top handling ease for hundreds of jobs in construction, fabricating, shipyards, salvage and other related industries. Silver brazed joints throughout. Head and butt are machined from dense brass forgings. Ball style control valves provide positive gas shut-off. All SC Series torches listed below are covered by Smith's Lifetime Warranty. **100% tested and inspected.**

- 3 tube "in-tip" mix design keeps gases separated until reaching the tip.
- Reversible lever, top or bottom mounting.
- Uses long lasting "Soft Seat" Graf-Tite™ cutting tips.
- Replaceable hose connections and sintered filters.
- Wide array of cutting, gouging and specialty tips available.
- Versatile- for use with acetylene, propane, propylene, MAPP® and many other gases.
- "Ease-on" cutting jet action reduces tip-clogging and slag blow-back in piercing operations.
- Head made of heavy duty manganese bronze. Available with 75°, 90° and 180° angle.



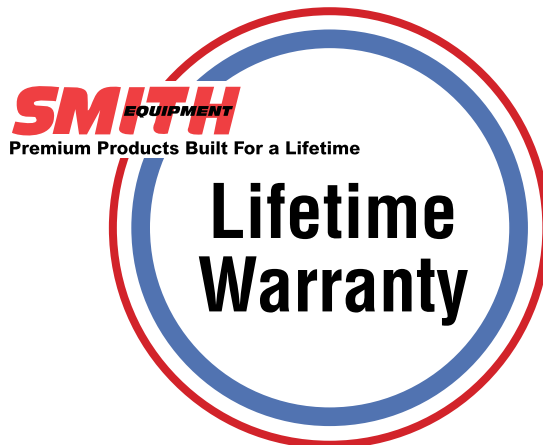
Part No. DG229



Part No. SC225

Dual Guard™ Part No.	SC Series Part No.	Head Angle	Length	Tips
DG225	SC225	75°	20-1/2"	<b>Oxygen/ acetylene:</b> SC12-00 thru SC12-6, SC56 thru SC56-6 <b>Oxygen/ propane Oxygen/ propane based:</b> SC40-0 thru SC40-4, SC46-2 thru SC46-6, SC50-0 thru SC50-6 <b>Oxygen/ propylene:</b> SC60-1, SC60-2, SC2-2, SC2-4 <b>Oxygen/ MAPP®:</b> SC90-00 thru SC90-5, SC56-1 thru SC56-6
DG229	SC229	90°	20-1/2"	
DG220	SC220	180°	21"	

**NOTE:** May be used with all Heavy Duty Special Purpose Tips and include sintered metal inlet filters.



**MADE IN USA**

## Cutting Attachments

### Dual Guard™ - Heavy Duty

Features The Dual Guard™ System and cuts up to 8" thick steel. Solid silver brazed construction. Features "O" ring seating and easy-to-change slip-in Graf-Tite® cutting tips with cost saving soft-seats. Covered by the Lifetime Warranty & Service Agreement. Use with any industrial equal pressure fuel gases- acetylene, propane, natural gas, propylene, hydrogen, MAPP®, and many others. Several models of standard and special purpose tips are available.

- Used with - Part No. WH200 (torch handle) Also fits: SW1, SW1A, SW1B
- Valve assembly replacement: 13936 (also for SC Series)



Part No. DG209

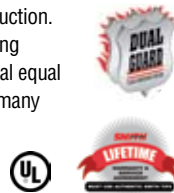
Part No.	Length	Weight	Style	Head Angle	Tips
DG205	12-1/2"	1 lb. 15 oz.	HD	75°	<b>Oxygen/ Acetylene:</b> SC12-00 thru SC12-5, SC56-1 thru SC56-5 <b>Oxygen/ propane Oxygen/ propane based:</b> SC40-0 thru SC40-4, SC50-1 thru SC50-5, SC2-2 thru SC2-4 <b>Oxygen/ propylene:</b> SC60-0 thru SC60-5, SC2-2 thru SC2-4 <b>Oxygen/ MAPP®:</b> SC90-00 thru SC90-5, SC56-1 thru SC56-5 SC Series Special Purpose Tips except SC83, SC112 & obs
DG209	12-1/2"	1 lb. 15 oz.	HD	90°	

**NOTE:** DG200 Series supercedes SC200 and SC500 Series cutting assemblies.

### Dual Guard™ - Medium Duty

Features The Dual Guard™ System and cuts up to 6" thick steel. Solid silver brazed construction. Features "O" ring seating and easy-to-change slip-in Graf-Tite™ cutting tips with cost saving soft-seats. Covered by the Lifetime Warranty & Service Agreement. Use with any industrial equal pressure fuel gases- acetylene, propane, natural gas, propylene, hydrogen, MAPP®, and many others. Several models of standard and special purpose tips are available.

- Used with - **Part No. WH100** (torch handle). Also fits: MW5, MW5A
- Valve assembly replacement 7588 (also for MC500 & AC300 Series)



Part No. DG109A

Part No.	Length	Weight	Head Angle	Tips
DG109A	11-1/4"	1 lb. 3 oz.	90°	All MC Series cutting & special purpose tips

**NOTE:** DG100 Series supercedes MC500 Series cutting assemblies.

### CC509P - Medium Duty (Economy)

Popular medium duty cutting attachment easily cuts up to 6" steel. Solid construction to last a lifetime - silver brazed joints, stainless steel tubes, brass forged butt and head. Has the same quality features and construction as the larger and heavier Dual Guard™ attachment. Use with any industrial medium pressure fuel gases- acetylene, propane, butane, natural gas, propylene, HPG®, MAPP®, hydrogen and many others. **100% tested & made in the USA**

- Used with - Part No. WH100 (torch handle). Also fits MW5, MW5A



Part No. CC509P

Part No.	Length	Weight	Head Angle	Tips
CC509P*	11-1/4"	1 lb. 2 oz.	90°	<b>Oxygen/ acetylene:</b> MC12-00 thru MC12-5 <b>Oxygen/ propane:</b> MC40-0 thru MC40-3 <b>Oxygen/ propane based:</b> MC40-0 thru MC40-3 <b>Oxygen/ propylene:</b> MC60-1 thru MC60-2 <b>Oxygen/ MAPP®:</b> MC90-1, MC90-2, MC Series special purpose tips

\* Supplied in Toughcut™ Outfits

### Airline™ - Standard Duty Cutting Attachments

Fits into AW1A torch handle to form a small light weight cutting torch with cutting capacity up to 3" steel. Has same quality construction and features built into each cutting attachment. Covered by the Lifetime Warranty & Service Agreement.

- Used with - AW1A or AW10A (torch handles).



Part No. AC309

Part No.	Head Angle	Tips
AC309	90°	<b>Oxygen/ acetylene:</b> MC12-00 thru MC12-4 <b>Oxygen/ propane oxygen/ propane based:</b> MC40-0 thru MC40-3 <b>Oxygen/ propylene:</b> MC60-1 thru MC60-4 <b>Oxygen/ MAPP®:</b> MC90-1, MC90-2, MC Series Special Purpose Tips



## Torch Handles

### WH200 - Heavy Duty

**Cuts up to 8"- Welds up to 1"**

Rugged torch handle for high volume heating tips and general purpose welding, brazing and cutting. Features rugged silver brazed construction, forged brass butt, solid brass seat, and fluted easy grip handle. Needle valves are ball type for positive seat and accurate flame control; guards against uneven valve wear to assure safer, longer trouble-free operation. Has Teflon® packing for excellent flow control. Replaceable inlet check valves fit "B" size hose nuts, 9/16" - 18 right and left hand. Covered by the Lifetime Warranty & Service Agreement. Supercedes: SW1, SW1A, SW1B

- Valve assembly replacement: G729-5A

Part No.	Length	Weight	Handle Diameter	Used With		
				Cutting Attachments	Welding Tips	Heating Tips
WH200	7-1/2"	17-3/8 oz.	1"	SC209, SC200, SC205, SC509, DG205, DG209, DG200	SW200, SW400	ST600, ST800



Part No. WH200

### WH100 - Medium Duty

**Cuts up to 6"- Welds up to 7/8"**

Easy handling, high quality mid-size torch handle. Handles all but the highest volume heating and heaviest welding needs. Features rugged silver brazed construction, forged brass butt and precision machined brass head. Ball type needle valves reduce uneven valve wear and provide easy flame adjustment. Inlet connections, 9/16"-18 right, left hand, fit "B" size hose nuts. Covered by the Lifetime Warranty & Service Agreement. Supercedes: MW5, MW5A

- Valve assembly replacement: LW17

Part No.	Length	Weight	Handle Diameter	Used With		
				Cutting Attachments	Welding Tips	Heating Tips
WH100	7"	14 oz.	15/16"	MC505, MC509, DG105, DG109A	MW200	MT600, MT800



Part No. WH100

### AW1A Airline™ - Standard Duty

**Cuts up to 3"- Welds up to 1/2"**

Specially designed to handle standard duty welding, brazing, cutting and fabricating. Lightweight and compact size provide easy handling, even in confined areas. Needle valves located at front end for easy one-hand flame adjustment. Inlet connections 3/8" - 24 right and left hand, fit "A" size hose nuts. Covered by the Lifetime Warranty & Service Agreement.

- Valve assembly replacement: AW11A

Part No.	Length	Weight	Handle Diameter	Used With			
				Cutting Attachments	Welding Tips	Heating Tips	Twin Flame Tips
AW1A	5-3/4"	6-1/8 oz.	11/16"	AC309	AW200	AT600	AT600, AT600X6



Part No. AW1A

### AW10A High Volume - Standard Duty

**Cuts up to 3"- Welds up to 1/2"**

Larger size torch handle provides increased gas flow. Ball type valves provide fine flame adjustment. Long valve thread engagement in Teflon® packing prevents flame fluctuation and stops valve wobble. Inlet connections, 9/16" - 18 right and left hand, fit "B" size hose nuts. Covered by the Lifetime Warranty & Service Agreement.

- Valve assembly replacement: LW17

Part No.	Length	Weight	Handle Diameter	Used With			
				Cutting Attachments	Welding Tips	Heating Tips	Twin Flame Tips
AW10A	6-3/4"	14 oz.	15/16"	AC309	AW200	AT600	AT600, AT600X6



Part No. AW10A

## Cutting Tips

### SC Cutting Tips - For Heavy Duty Torches

Smith's cutting tips are swaged from high quality copper to assure smoothest possible gas passages and fastest, most efficient cutting. All Smith cutting tips feature the slip-in design that hand-tightens to form a perfect, positive seal, protected recessed heat resistant seats and the extra safety of in-tip mixing. Replacement seats G931 (high pressure); G932 (low pressure). For use with heavy duty SC and DG series of torches.



Part No. SC12



Part No. SC40



Part No. SC56

Cutting Range	Acetylene		2-Piece Tips Propane		2-Piece Tips Propylene	2-Piece Tips MAPP®	
	6 Pre-heats	Heavy Preheat	Medium Preheat	Heavy Preheat	Medium Preheat	Heavy Preheat	Medium Preheat
Up to 3/16"	SC12-00				SC60-00		SC90-00
1/4" - 3/8"	SC12-0		SC40-0	SC50-0	SC60-0		SC90-0
1/2" - 5/8"	SC12-1	SC56-1	SC40-1	SC50-1	SC60-1	SC56-1	SC90-1
3/4" - 1-1/4"	SC12-2	SC56-2	SC40-2	SC50-2	SC60-2	SC56-2	SC90-2
1-1/2" - 2"	SC12-3	SC56-3	SC40-3	SC50-3	SC60-3	SC56-3	SC90-3
2-1/2" - 4"	SC12-4	SC56-4	SC40-4	SC50-4	SC60-4		SC90-4
5" - 8"	SC12-5	SC56-5		SC50-5	SC60-5	SC56-5	SC90-5
10" - 12"	SC12-6	SC56-6		SC50-6	SC60-6		
13" - 14"		SC56-7		SC50-7		SC56-7	
15" - 18"		SC56-8		SC50-8			
19" - 20"		SC56-9		SC50-9		SC56-9	
21" - 24"		SC56-9				SC56-9	

### MC Cutting Tips - For Medium and Light Duty Torches

Smith's MC cutting tips have the same high quality construction and features of the larger, heavier duty SC series tips. Replacement seats G695 (high pressure), G694 (low pressure). Cutting attachments include: MC505, MC509, AC309, DG109A, CC509P.



Part No. MC40

Cutting Range	Acetylene	2-Piece Tips Propane	2-Piece Tips Propylene	2-Piece Tips MAPP®
	6 Pre-Heats	Medium Preheat	Medium Preheat	Medium Preheat
1/8" - 3/16"	MC12-00			
1/4" - 3/8"	MC12-0	MC40-0	MC60-0	
1/2" - 5/8"	MC12-1	MC40-1	MC60-1	MC90-1
3/4" - 1"	MC12-2	MC40-2	MC60-2	MC90-2
1-1/2" - 2"	MC12-3	MC40-3		
2-1/2" - 4"	MC12-4			
5" - 6"	MC12-5			

### Special Purpose Tips - SC And MC

For use with straight cutting torches only.



Part No. SC13-3



Part No. SC14-3



Part No. SC15-2



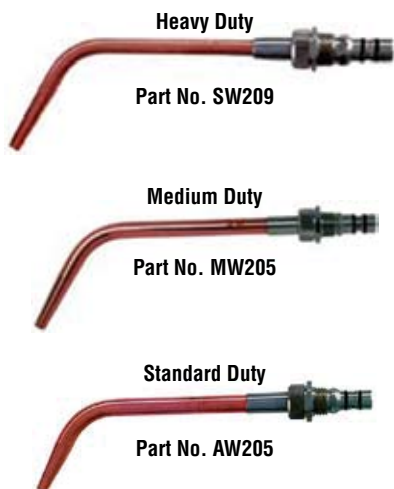
Part No. SC17-0

Application	Capacity	Acetylene	Propane	MAPP®
Gouging	1/8" D x 1/4" W			
Gouging	1/4" D x 3/8" W	SC13-3, MC13-3	SC23-3	
Gouging	3/8" D x 1/2" W	SC13-5		SC23-5M
Rivet cutting	3/4" rivets			
Riser	1-1/2" rivets	SC14-3		
Rivet blowing & metal washing	3/8"-1/2"	SC15-2		
Plate cutting	3/8"	SC17-0		
Heating	83,000 BTU	SC83		

## Welding, Brazing & Heating Tips

### Exclusive Soft-Flame Welding and Brazing Tips

Smith's "Soft-Flame" welding and brazing tips provide concentrated heat for better "puddle" control. The turbulent-free flame eliminates puddle chasing for higher quality welding. The heavy wall copper gives greater resistance to reflected heat, permits cooler operation, and dissipates more heat than thin wall copper. Smith's slip-in tip design makes tip change quick and easy; takes just seconds, hand-tightened, no wrench necessary.



Welding Range (Metal Thickness)	Use in WH200 or SW1A		Use in WH100 or MW5A		Use in AW1A, AW10A	
	Acetylene	Propane	Acetylene	Propane	Acetylene	Propane
<b>Up To:</b>						
1/32"	SW201		MW201		AW201	
1/16"		SW403		MW403		
5/64"	SW203		MW203		AW203	
1/8"	SW205	SW405	MW205		AW205	
3/16"	SW207		MW207		AW207	
3/8"	SW209	SW409	MW209		AW209	
1/2"	SW210				AW210	
5/8"				MW411		
1" and over	SW214					
Repl. O-Ring	LW15		MW15		AW15	

### Heating Tips

Fast, efficient Smith high capacity heating tips save money and reduce labor. Superior design provides high volume heat for bending, straightening, pre-heating, brazing, shrinking and more. Use recommended pressures with adequate gas supply for best performance. Manifolding cylinders may be required for safe and efficient operation of larger heating tips. Acetylene must not be withdrawn at more than 1/7 of cylinder capacity per hour.

- ST Series uses LW15 replacement O-rings.
- MT Series uses MW15 replacement O-rings.
- AT Series uses AW15 replacement O-rings.



Average BTU's Outlet	Use in WH200 or SW1A			Use in CW5A, WH100 or MW5A			Use in AW1A, AW10A
	Acetylene	Propane	MAPP®	Acetylene	Propane	MAPP®	Acetylene
40,125				MT603			
41,550							AT605
71,750	ST603						
73,085				MT605			
121,500						MT810	
124,670	ST605						
128,970				MT610			
194,890	ST610						
286,350		ST615			MT615		
421,000			ST815			MT815	
455,000		ST625					
614,195		ST635					
865,000			ST825				

## Guards / Regulators

### Hard Hat™ Regulator Guards

Protect regulators from costly gauge damage with Smith's Hard Hat™ gauge guards. Promotes safety, designed to help prevent broken gauges which can lead to gas leaks. Time and cost savings, helps prevent costly equipment down time and expensive repairs.

- HB190 Hard Hat™ is made from rugged steel. Bright yellow, baked enamel finish.
- Quickly and easily attaches to regulator.
- Fits: HB1500 series brass regulators.

**Part No. HB190**

- H195 Hard Hat™ is formed from impact-resistant Lexan™ resin, an extremely tough, durable polycarbonate.
- Bright safety yellow finish.
- Fits: Series 30™ regulators.

**Part No. H195**



Part No. HB190



Part No. H195

### Regulators

#### HB1500 Series - Heavy Duty Brass

HB1500 series single stage regulators comprise a complete line of versatile regulators for welding, cutting, heating and other industrial applications. Heavy duty construction and simplified design provides high gas flow and longer trouble-free operation. 3 year limited warranty.



Part No. HB1521B-510S

Part No.	Gas Used	Delivery Pressure	Gauges (2 1/2" Dia.)		Inlet Connection	Outlet Connection	Max Inlet Pressure
			Inlet	Outlet			
<b>Oxygen Regulators</b>							
HB1510-540	Oxygen	0-150 PSIG 0-1000 kPa	4000 PSIG 28000 kPa	200 PSIG 1400 kPa	CGA 540	9/16"-18 RH "B"	3000 PSIG
HB1510-540S <sup>2</sup>	Oxygen	0-150 PSIG 0-1000 kPa	4000 PSIG 28000 kPa	200 PSIG 1400 kPa	CGA 540	9/16"-18 RH "B"	3000 PSIG
<b>Acetylene Regulators</b>							
HB1520-300	Acetylene	0-15 PSIG 0-100 kPa	400 PSIG 2800 kPa	30 PSIG 200 kPa	CGA 300	9/16"-18 LH "B"	400 PSIG
HB1520-300S <sup>2</sup>	Acetylene	0-15 PSIG 0-100 kPa	400 PSIG 2800 kPa	30 PSIG 200 kPa	CGA 300	9/16"-18 LH "B"	400 PSIG
HB1521-510	Acetylene	0-15 PSIG 0-100 kPa	400 PSIG 2800 kPa	30 PSIG 200 kPa	CGA 510	9/16"-18 LH "B"	400 PSIG
HB1521-510S <sup>2</sup>	Acetylene	0-15 PSIG 0-100 kPa	400 PSIG 2800 kPa	30 PSIG 200 kPa	CGA 510	9/16"-18 LH "B"	400 PSIG
<b>Propane, Propylene, MAPP® and Natural Gas Regulators</b>							
HB1522-510	LP Gas	0-60 PSIG 0-350 kPa	400 PSIG 2800 kPa	60 PSIG 400 kPa	CGA 510	9/16"-18 LH "B"	400 PSIG
<b>Other Gases</b>							
HB1530-580	Nitrogen	0-275 PSIG 0-1900 kPa	4000 PSIG 28000 kPa	400 PSIG 2800 kPa	CGA 580	5/8"-18 RH Internal	3000 PSIG

<sup>1</sup> Flows above 100 SCFH CO<sub>2</sub> require minimum 80 PSIG outlet and heat may be needed to prevent freeze-up.

<sup>2</sup> Includes HB190 Hard Hat™ Gauge Guard.

**Note:** These regulators are not suitable in cryogenics or lox or other liquid gas systems.

## Single Stage Regulators

### Series 30™ Single Stage Regulators - Medium Duty

- These extremely durable regulators contain Smith's exclusive Sure Seat™ filtered seat technology for extended seat and regulator life. Filtered seat prevents contamination from entering the seating area reducing repair costs and down-time.
- Manufactured with a rugged forged body and corrosion resistance bright nickel-plated bonnet for added product durability.
- Dual safety features include self re-seating external pressure relief valve and diaphragm which is designed to rupture if high pressure seat fails.
- Highly accurate pressure gauges with shatter resistant lenses.
- High capacity flow capabilities of over 2800 SCFH with oxygen.
- Sensitive heavy duty laminated Neoprene® diaphragm.
- Made in U.S.A. with 3 year limited warranty.



Part No. 30-100-540

Part No.	Gas Used	Delivery Pressure	Gauges (2" Dia.)		Inlet Connection	Outlet Connection	Max Inlet Pressure
			Inlet	Outlet			
<b>Oxygen Regulators</b>							
30-100-540	Oxygen	0-100 PSIG 0-700 kPa	4000 PSIG 28000 kPa	150 PSIG 1000 kPa	CGA 540	9/16" - 18 RH "B"	3000 PSIG
<b>Acetylene Regulators</b>							
30-15-300	Acetylene	0-15 PSIG 0-100 kPa	400 PSIG 2800 kPa	30 PSIG 200 kPa	CGA 300	9/16" - 18 LH "B"	400 PSIG
30-15-510	Acetylene	0-15 PSIG 0-100 kPa	400 PSIG 2800 kPa	30 PSIG 200 kPa	CGA 510	9/16" - 18 LH "B"	400 PSIG
<b>Propane, Propylene, MAPP® and Natural Gas Regulators</b>							
30-50-510	LP Gas	0-50 PSIG 0-350 kPa	400 PSIG 2800 kPa	60 PSIG 400 kPa	CGA 510	9/16" - 18 LH "B"	400 PSIG
<b>Other Gases</b>							
30-150-580	Argon Nitrogen	0-150 PSIG 0-1050 kPa	4000 PSIG 28000 kPa	150 PSIG 1000 kPa	CGA 580	5/8" - 18 RH Internal	3000 PSIG
30-100-320*	CO <sub>2</sub>	0-100 PSIG 0-700 kPa	4000 PSIG 28000 kPa	150 PSIG 1000 kPa	CGA 320	5/8" - 18 RH Internal	3000 PSIG
30-100-350	Hydrogen Methane	0-100 PSIG 0-700 kPa	4000 PSIG 28000 kPa	150 PSIG 1000 kPa	CGA 350	9/16" - 18 LH "B" Internal	3000 PSIG

\* Flows above 100 SCFH CO2 require minimum 80 PSIG outlet and heat may be needed to prevent freeze-up.

### 820 Series Single Stage Regulators - High Pressure

- This high pressure regulator series is for use on cylinders with a wide variety of non-corrosive inert gases.
- Piston sensor design gives structural reliability in high-pressure use.
- Features self-relieving adjusting knob for easy low torque adjustment, nickel-plated bonnet, body and easy to read 2-1/2" gauges for superior corrosion resistance.
- Made in the U.S.A with 3 year limited warranty.

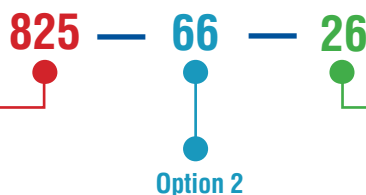
**Typical Applications:** High pressure testing, Purging and charging, calibration kits, chemical plants, manufacturing process and applications, research and development



Part No.	Max Inlet Pressure (PSIG)	Delivery Pressure	Inlet Gauge		Delivery Gauge	
			Range (PSIG)	Graduations (PSIG)	Range (PSIG)	Graduations (PSIG)
823	6,000	0 - 500	0 - 10,000	200	0 - 1,500	100
824	6,000	0 - 1,000	0 - 10,000	200	0 - 1,500	100
825	6,000	0 - 2,000	0 - 10,000	200	0 - 4,000	100
826	6,000	0 - 4,000	0 - 10,000	200	0 - 6,000	100
827	6,000	0 - 6,000	0 - 10,000	200	0 - 6,000	100

Option 1

Model Series	Outlet Pressure
823	500 PSIG
824	1000 PSIG
<b>825</b>	<b>2000 PSIG</b>
826	4000 PSIG
826	6000 PSIG



Option 2

Outlet Fitting	
00	None
66	1/4" Male NPT stainless steel needle valve

Option 3

CGA Inlet Fittings	
00	None
09	CGA 580 brass
<b>26</b>	<b>CGA 347 SST</b>
27	CGA 677 SST
28	CGA 680 SST

Max CGA Pressure
3000 PSIG
5500 PSIG
10,000 PSIG
6,000 PSIG

## Twin Pack / Flowmeter Regulators

### Series 30™ Twin Pack Regulators

Rugged medium duty industrial grade regulators are extremely durable and contain Smith's exclusive Sure Seat™ filtered seat technology for extended seat and regulator life. Filtered seat prevents contamination from entering the seating area reducing repair costs and down-time. Regulators are manufactured with a rugged forged body and corrosion resistance bright nickel-plated bonnet for added product durability. Series 30™ are American made and backed by a 3 year limited warranty.

- Highly accurate pressure gauges with shatter resistant lenses.
- High capacity flow capabilities of over 2800 SCFH with oxygen.
- Sensitive heavy duty laminated Neoprene® diaphragm- provides sensitivity for highly accurate operation.
- Dual safety features- Self re-heating external pressure relief valve and diaphragm is designed to rupture if high pressure seat fails.



Part No. HTP2

Part No.	Regulator	Delivery Pressure	Inlet Connection	Gas Used
HTP2	30-100-540	0-75 PSIG	CGA 540	Oxygen
	30-15-510	0-15 PSIG	CGA 510	LP/Acetylene
HTP5	30-100-540	0-75 PSIG	CGA 540	Oxygen
	30-15-300	0-15 PSIG	CGA 300	Acetylene

## Flowmeter Regulators

### Series 30™

Rugged medium duty industrial grade regulators provide efficient and accurate regulation. Has many features found in more expensive regulators. Contains Smith's exclusive Sure Seat™ filtered seat technology for extended seat and regulator life. Filtered seat prevents contamination from entering the seating area reducing repair costs and down-time. Regulators are manufactured with a rugged forged body with bright nickel-plated bonnet with are American made and backed by a 3 year limited warranty.

- **Flowmeter Tube** has a unique ball guide that centers the ball float in the flow tube and keeps it centered. Other tubes must stand absolutely perpendicular to assure flow accuracy. Without Smith's exclusive self-centering flow tube the ball may float off center and the actual gas flow can be up to 2-1/2 times greater than is indicated.
- **Lexan™ Flow Tube** is highly accurate and shatter resistant.

### Series 30™ Single Stage Flowmeter Regulators-Lexan™ Flow Tube



Part No. 32-80-580-6

Part No.	Gas Used	Flow Range	Preset Delivery Pressure	Flowmeter	Inlet Connection	Outlet Connection	Maximum Inlet Pressure
32-80-580-6	Argon/CO <sub>2</sub>	0 - 80 SCFH	80 PSIG	H1103E	CGA 580	5/8" - 18 RH Internal	3000 PSIG
32-80-320-6	CO <sub>2</sub>	0 - 80 SCFH	80 PSIG	H1103E	CGA 320	5/8" - 18 RH Internal	3000 PSIG
*32-30-580-6 Selec-O-Gas™	Argon/CO <sub>2</sub>	0 - 60 SCFH	30 PSIG	H1230E	CGA-580	5/8" - 18 RH Internal	3000 PSIG
	Helium	0 - 190 SCFH	30 PSIG	H1230E	CGA-580	5/8" - 18 RH Internal	3000 PSIG
	General/Any Gas	0 - 10 Range	30 PSIG	H1230E	CGA-580	5/8" - 18 RH Internal	3000 PSIG

**NOTE:** Includes 6' hose with inert hose connections.

\* Selec-O-Gas™ Regulator does the jobs of more than 3 common flowmeters. Has 3 separate scales: Argon/CO<sub>2</sub>, Helium & General Gas.

### H2051 Single Stage Flowmeter Regulator - Economy

Exceptional value and compact design, provides precise shield gas regulation for MIG and TIG welding applications and more. Shatter resistant polycarbonate flow tube features triple scale for Argon, Helium and Argon/ CO<sub>2</sub> and has a packless O-ring flow tube seal which reduces maintenance. Built-in rupture disc reduces possibility of flow tube damage due to high pressure inlet surge. Precision flow adjustment valve locks flow at desired setting. Regulator features 3 year limited warranty.



Part No. H2051-580H

Part No.	Gas Used	Flow Range	Preset Delivery Pressure	Inlet Connection	Outlet Connection	Maximum Inlet Pressure
H2051-580	Argon/CO <sub>2</sub>	0 - 50 SCFH	50 PSIG	CGA 580	5/8" - 18 RH Internal	3000 PSIG
H2051-580H*	Argon, Helium					

\* Includes 6' hose with inert hose connections.

## Flow Gauge / Flowmeter / Flashback Arrestors

### Series 30™ Single Stage Flow Gauge

Rugged medium duty industrial grade flow gauge regulators are extremely durable and contain Smith's exclusive Sure Seat™ filtered seat technology for extended seat and regulator life.

Filtered seat prevents contamination from entering the seating area reducing repair costs and down-time. Regulators are manufactured with a rugged forged body and corrosion resistant bright nickel-plated bonnet for added product durability. Series 30™ are American made and backed by a 3 year warranty.

- High capacity flow capabilities of over 50 SCFH.
- Highly accurate pressure gauges with shatter resistant lenses.
- Sensitive heavy duty laminated Neoprene® diaphragm- provides sensitivity for highly accurate operation.
- Dual safety features- Self re-seating external pressure relief valve and diaphragm is designed to rupture if high pressure seat fails.
- 0-4000 psi inlet gauge.



Part No. 31-50-580



Part No.	Gas Used	Delivery Range	Inlet Connection	Outlet Connection
31-50-580	Argon	10 - 50 SCHF	CGA 580	5/8" - 18 RH Internal
31-50-580-6*	Argon	10 - 50 SCHF	CGA 580	5/8" - 18 RH Internal

\* Includes 6' hose with inert hose connections.

### Heavy Duty Flowmeters

Flowmeter assemblies are designed to operate at an inlet pressure of 30 PSIG (except H1103 which is designed to operate at an inlet pressure of 80 PSIG). They may be attached to regulators or pipeline installations. All flowmeters have 1/4" NPT female inlets. 1 year limited warranty.

- Flow tube is extra long and is accurate to within 3% of the full scale reading. Tubes are made of shatter resistant Lexan™.
- Flow tube has a unique ball guide which centers the ball in the tube and keeps it centered. A ball float in a non-centering tube allows the ball to float off-center and will result in greater flows than the reading indicates.

**Selec-O-Gas™ Flow Tube**- Just rotate the outer tube to the scale you desire for: Argon, CO<sub>2</sub>, Helium, or General/Any Gas.



Part No. H1103E

**NOTE: Read center of ball on all Smith Flowmeters.**



Part No.	Gas Used	Flow Range	Tube No.	Inlet Connection	Outlet Connection	Preset Delivery Pressure
H1103E	Argon/ CO <sub>2</sub>	0-80 SCFH	13220	1/4" NPT male	5/8" - 18 RH Internal	80 PSIG
H1230E Selec-O-Gas™	Argon/ CO <sub>2</sub> General, Helium	Various	14254	1/4" NPT male	5/8" - 18 RH Internal	30 PSIG

**CAUTION:** Do Not Connect Flowmeters Directly to Gas Cylinder.

**NOTE:** When using Argon/CO<sub>2</sub> mix, read Argon scale.

### Flashback Arrestors

- Built-in check valve prevents the reverse flow of gas.
- Requires no manual reset.
- Easy to install- attaches to standard "B" fittings.
- High quality brass construction, case is rugged and corrosion resistant.
- Sintered stainless steel filter stops flashback fire.



Part No. H753

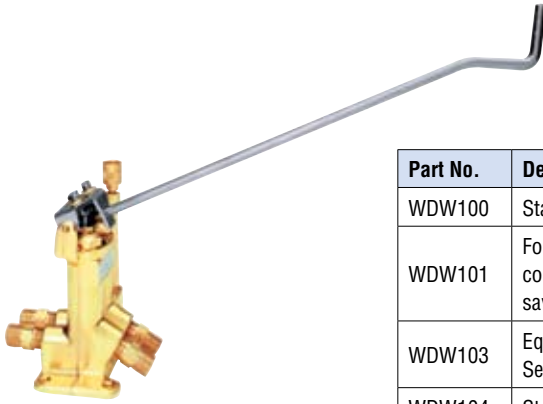


Part No.	Description	Gas
H743	Regulator Mount ( for use with CGA "B" male fitting)	Oxygen and fuel gas pair
H753	Torch Mount (high flow)	Oxygen and fuel gas pair

**Gasaver™**

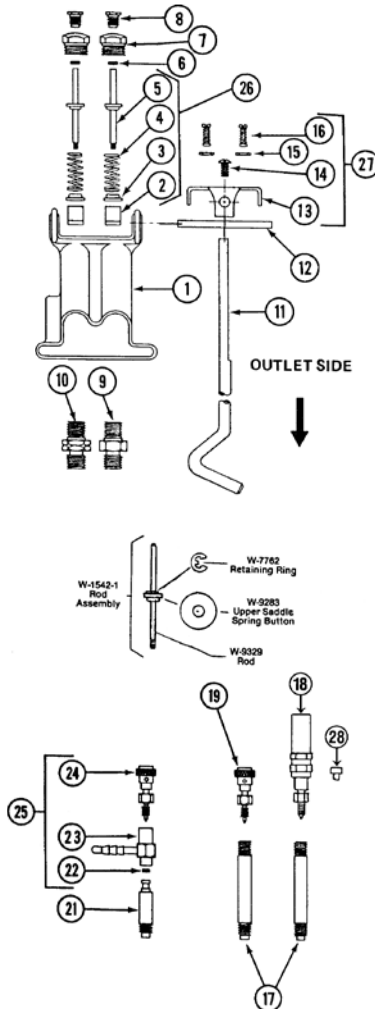
**Smith Gasaver™**  
**The Original Gas Saving Method of Cutting Production Cost**

Oxygen and acetylene consumption cut up to 25 or 30 percent. Many users consider the increase in working operations soon pays for the small cost of the Gasaver™. Used by America's largest production plants. Listed as standard by Underwriters Laboratory and the New York City Board of Standards and Appeals.



Part No.	Description
WDW100	Standard Gasaver™ for use of MAPP® or propylene gas and oxygen.
WDW101	For general use on all types of acetylene and oxygen operations. Gasavers™ can be installed in any convenient location on the line between regulators and torch. The closer the torch, the greater the savings in oxygen and acetylene.
WDW103	Equipped with separate pilot fuel inlet for use with low pressure gas with injector type torches. Separate source of high pressure pilot gas required.
WDW104	Standard Gasaver™ equipped with Pilot Light for use with propane or natural gas at 2 PSI or more.

**Gasaver™ Replacement Parts**



Reference No.	Part No.	Description	Quantity Needed
1	WDW9303	Body	1
2	WDW84461	Seat	2
3	WDW9328	Lower saddle spring button	2
4	WDW7809	Spring	2
5	WDW15421	Rod assembly, plunger	2
6	14613-18	O-ring	2
7	WDW6183	Plunger rod bushing	2
8	WDW6045	Packing nut	2
9	13897	Oxygen inlet/outlet	2
	WD1030128	Water inlet/outlet	2
10	13896	Gas inlet/outlet	2
	4872	Inert inlet/outlet	2
11	WDW9286	Lever	1
12	WDW9315	Pinion rod	1
13	WDW880510	Saddle	1
14	WDW7730	Lever rod lock screw	1
15	WDW7887	Adjusting screw lock nut	2
16	WDW7736	Adjusting screw	2
17	15163	Pilot light tube	1
18	WDW17401	Pilot - MAPP®- W-100	1
19	WDW1507	Pilot light - acetylene- W-101	1
	WDW9324	Lava pilot light tip	1
21	WDW6702	Pilot base for W-103	1
22	7613	Set screw for W-103	1
23	WDW1506	Pilot adapter W-103	1
24	WDW1508	Pilot light, natural gas W-103; W-104	1
25	WDW1533	Pilot light assembly for W-103	1
26	WDW15661	Plunger assembly	1
27	WDW10005	Saddle assembly	1
28	WDL6071	Orifice	1



## Gas Mixers

### Proportional Gas Mixers

Various welding and process manufacturing jobs require different mixes of gas for the best performance. Smith's proportional gas mixer allows on-site mixing of gases eliminating inventory and handling of costly premixed gases. Individual gases can be mixed for specific welding or other industrial requirements resulting in improved performance. Controlling the gas mixtures will result in lower costs and better welds.

Part No.	Description	Gases	Adjustment % Range	Required Inlet Pressure/Gas PSIG/Bar	Outlet Pressure Without Flow PSIG/Bar	Flow Rate SCFH LPM	Inlet Fittings	Outlet Fittings
299-006-1B	2 gas mixer std. capacity 180 SCFH	Argon CO <sub>2</sub>	0-100% 100-0%	55-100 3.79-14.5	45 3.1	10-180 4.8-85.7	5/8"-18 RH internal	5/8"-18 RH internal
299-006-3B	2 gas mixer std. capacity 180 SCFH	Argon Helium	0-100% 100-0%	55-100 3.79-14.5	45 3.1	10-180 4.8-85.7	5/8"-18 RH internal	5/8"-18 RH internal
299-011-1B	2 gas mixer std. capacity 180 SCFH	Argon Hydrogen	50-100% 50-0%	55-100 3.79-14.5	45 3.1	10-180 4.8-85.7	5/8"-18 RH internal	5/8"-18 RH internal
299-016-1B	2 gas mixer high capacity 700 SCFH	Argon CO <sub>2</sub>	0-100% 100-0%	105-115 7.3-7.9	50 3.45	20-700 9.4-330	1/4" FNPT	1/2" FNPT
299-016-16B	2 gas mixer high capacity 700 SCFH	Argon Hydrogen	50-100% 50-0%	105-115 7.3-7.9	50 3.45	20-700 9.4-330	1/4" FNPT	1/2" FNPT
299-039B	3 gas mixer std. capacity 180 SCFH	Argon Oxygen CO <sub>2</sub>	85-100% 0-15% 0-15%	105-115 7.3-7.9	50 3.45	10-180 4.8-85.7	5/8"-18 RH internal	5/8"-18 RH internal



Standard 2 Gas 180 SCFH Mixer



High Capacity 2 Gas 700 SCFH Mixer



Standard 3 Gas 180 SCFH Mixer

## Welding, Cutting and Heating Outfits

### Welding, Cutting and Heating Outfits

#### Journeyman®

- CSR 450 series regulators with gauge guards.
- H315FC torch handle with built-in flashback arrestors and check valves.
- CA 2460 cutting attachment.
- W welding nozzles, Sizes: 1, 3, 5.
- MFA heating nozzle, Size 8.
- Series 1 cutting tip 1-1-101.
- T-Grade hose 25' x 1/4".
- Stainless panel toolbox.
- Multi-wrench, striker and tip cleaner.
- Soft sided shade 5 goggles.
- **Cuts up to 3/4"/19mm**  
(8"/200mm with optional tips).
- **Welds up to 1/2"/12mm**  
(3"/75mm with optional nozzles).



#### Journeyman II™

- CSR 450 series regulators with gauge guards.
- 315FC torch handle with built-in flashback arrestors and check valves.
- CA 2460 cutting attachment.
- W welding nozzle, Size: 2.
- Series 1 cutting tip 1-1-101.
- T-Grade hose 25' x 1/4".
- Stainless panel toolbox.
- Multi-wrench, striker and tip cleaner.
- Soft sided shade 5 goggles.
- **Cuts up to 3/4"/19mm**  
(8"/200mm with optional tips).
- **Welds up to 3/4"/4mm**  
(3"/75mm with optional nozzles).



#### SuperRange II™

- CSR 350 series regulators with gauge guards.
- 100FC torch handle with built-in flashback arrestors and check valves.
- CA 1350 cutting attachment.
- W-1 welding nozzle, Size: 2.
- Series 3 cutting tip.
- T-Grade hose 25' x 1/4".
- Stainless panel toolbox.
- Multi-wrench, striker and tip cleaner.
- Soft sided shade 5 goggles.
- **Cuts up to 1/2"/12mm**  
(6"/150mm with optional tips).
- **Welds up to 1/4"/6mm**  
(1-1/4"/31mm with optional nozzles).
- Available with size 6 MFA.



#### Performer®

- CSR 250 series regulators with gauge guards.
- 100FC torch handle with built-in flashback arrestors and check valves.
- CA 1350 cutting attachment.
- W-1 welding nozzle, Size: 0.
- Series 3 cutting tip 0-3-101.
- T-Grade hose 12-1/2' x 3/16".
- Stainless panel toolbox.
- Multi-wrench, striker and tip cleaner.
- Soft sided shade 5 goggles.
- **Cuts up to 1/2"/12mm**  
(6"/150mm with optional tips).
- **Welds up to 1/4"/6mm**  
(1-1/4"/31mm with optional nozzles).



#### Portable Torch™

- CSR 150 series regulators.
- 100FC torch handle with built-in flashback arrestors and check valves.
- CA 1350 cutting attachment.
- W-1 welding nozzle, Size: 1, 3, 5.
- Series 3 cutting tip 0-3-101.
- Includes 10' (3m) x 3/16" (5mm) T-Grade hose, goggles and lighter.
- **Cuts up to 1/2"/12mm**  
(6"/150mm with optional tips)\*.
- **Welds up to 1/4"/6mm**  
(1-1/4"/31mm with optional nozzles)\*.

\* Requires sufficient acetylene & oxygen supply.





## Welding and Cutting Outfits

### Specification & Ordering Information

Part No.	Description	Torch Handle	Welding Nozzle	Cutting Attachment	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator	Accessories	Replaces
0384-2009	Journeyman®	H315FC	(W) 1,3,5	CA 2460	1-1-101	8-MFA	CSR 450D-540	CSR460A-510	"T" grade 25' x 1/4" hose, goggles & lighter	0384-2009
0384-2011	Journeyman®	H315FC	(W) 1,3,5	CA 2460	1-1-101	8-MFA	CSR 450D-540	CSR460A-300		0384-2011
0384-2020	Journeyman II™	315FC	(W) 2	CA 2460	1-1-101		CSR 450D-540	CSR460A-510		0384-2020
0384-2021	Journeyman II™	315FC	(W) 2	CA 2460	1-1-101		CSR 450D-540	CSR460A-300		0384-2021
0384-0834	SuperRange II™	100FC	(W-1) 2	CA 1350	0-3-101		CSR 350D-540	CSR360A-510		0384-0834
0384-0836	SuperRange II™	100FC	(W-1) 2	CA 1350	0-3-101		CSR 350D-540	CSR360A-300		0384-0836
0384-0839	SuperRange II™	100FC	(W-1) 2	CA 1350	0-3-101	6-MFA	CSR 350D-540	CSR360A-510		0384-0839
0384-0822	SuperRange II™	100FC	(W-1) 2	CA 1350	0-3-101	6-MFA	CSR 350D-540	CSR360A-300		-
0384-0865	Performer®	100FC	(W-1) 2	CA 1350	0-3-101		CSR 250C-540	CSR260A-510		0384-0865
0384-0867	Performer®	100FC	(W-1) 2	CA 1350	0-3-101		CSR 250C-540	CSR260A-300	"T" grade 12-1/2' x 3/16" hose, goggles & lighter	0384-0867

### Portable Torch Kit™ Ordering Information

Part No.	Description	Torch Handle	Welding Nozzle	Cutting Attachment	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator	Accessories
0384-0936	With cylinder	100FC	(W-1) 1, 3, 5	CA 1350	0-3-101	-	CSR 150CF-540	CSR 160AR (MC)	"T" grade 12-1/2' x 3/16"
0384-0935	Without cylinder	100FC	(W-1) 1, 3, 5	CA 1350	0-3-101	-	CSR 150CF-540	CSR 160AR (MC)	hose, goggles & lighter



**Protect Yourself**  
by using both primary and secondary  
eye protection.

## Welding and Cutting Outfits

### Journeyman® Alternative Fuel Cutting and Heating Outfit

The Journeyman® Alternative Fuel cutting and heating outfit includes the traditional Journeyman® components with changes to the fuel gas regulator, CSR461B-510; The heating tip, 8T55; and two cutting tips, one for use with propane or one for use with either propylene or MAPP® gas. The cutting and heating manual is specifically written for operation of alternative fuel gases.

- Regulators include gauge guards (450 series) and are specific for alternative fuel.
- 315FC torch handle with built in flashback arrestors and check valves.
- "T" Grade Hose, 1/4" x 25' dual line.
- Multi-wrench, striker.

Part No.	Torch Handle	Cutting Attachment	Multi-flame Heating Assembly	Cutting Tip (Propane)	Cutting Tip (Propylene or MAPP)	Oxygen Regulators	Fuel Gas Regulator
0384-2022	H315FC	CA2460	8-Type 55	1-GPN	1-1-303MP	CSR450D-540	CSR461B-510



### Journeyman® "Select" Heavy-Duty Welding and Cutting Outfits

- CA 2460\* cutting attachment.
- CSR 450 series regulators.
- No welding nozzle, cutting tip, heating nozzle or accessories included.
- **Welds up to 1/2"/12mm; and up to 3"/75mm with larger nozzles.**
- **Cuts up to 3/4"/19mm; and up to 8"/200mm with larger tips.**

Part No.	Torch Handle	Cutting Attachment	Oxygen Regulators	Fuel Gas Regulator
0384-0812	315FC	CA 2460	CSR 450D-540	CSR460A-510
0384-0813	315FC	CA 2461	CSR 450D-540	CSR460A-510
0384-0814	315FC	CA 2460	CSR 450D-540	CSR460A-300
0384-0816	315FC	CA 2460	CSR 450D-540	CSR461B-510LP



Model No. 315FC

### CutSkill® Extra Heavy-Duty Welding and Cutting Outfits

- Series 1 cutting tip.
- WH370FC-V torch handle with built-in flashback arrestors and check valves.
- Toolbox.
- RM grade hose, lighter, and soft-sided goggles.
- **Cuts up to 3/4"/19mm (6"/153mm w/ optional tips).**
- **Welds up to 1/8"/3.2mm (3"/76mm w/ optional nozzles).**

Part No.	Torch Handle	Cutting Attachment	Oxygen Regulators	Fuel Gas Regulator
0384-2603	WH370FC-V	CA 370-V	CS 450-510	CS 460-510
0384-2604	WH370FC-V	CA 370-V	CS 450-300	CS 460-300
0384-2605	WH370FC-V	CA 370-V	CS 450-992	CS 460-993



Model No. CS450

**CUTSKILL®**



## Welding and Cutting Outfits

### "Cutter Select™" Cutting Outfits

Part No.	Description	Head Angle	Oxygen Regulators	Fuel Gas Regulator	Fuel Gas
0384-0847	ST2600FC	21° 90°	CSR 450D-540	CSR 460A-510	Acetylene
0384-0848	ST2600FC	21° 90°	CSR 450D-540	CSR 460A-300	Acetylene
0384-0849	ST2601FC	21° 75°	CSR 450D-540	CSR 460A-510	Acetylene
0384-0850	ST2601FC	21° 75°	CSR 450D-540	CSR 460A-300	Acetylene
0384-0851	ST2600FC	21° 90°	CSR 450D-540	CSR 461B-510	Propane/Natural Gas, Propylene, MAPP®
0384-0853	ST900FC	21° 90°	CSR 350D-540	CSR 360A-510	Acetylene
0384-0854	ST900FC	21° 90°	CSR 350D-540	CSR 360A-300	Acetylene
0384-0855	ST901FC	21° 75°	CSR 350D-540	CSR 360A-510	Acetylene
0384-0856	ST901FC	21° 75°	CSR 350D-540	CSR 360A-300	Acetylene
0384-0857	ST900FC	21° 90°	CSR 350A-540	CSR 361B-510	Propane/Natural Gas, Propylene, MAPP®
0384-0859	ST1000FC	21° 90°	CSR 350D-540	CSR 360A-510	Acetylene
0384-0860	ST1000FC	21° 90°	CSR 350D-540	CSR 360A-300	Acetylene
0384-0863	ST1000FC	21° 90°	CSR 350D-540	CSR 361B-510	Propane/Natural Gas, Propylene, MAPP®

\*Available with 75° or 90° head angle depending on you needs.



**Model No. ST2600 FC**

- ST2600FC\* cutting torch.
- CSR 450 series regulators.
- Cuts up to 8"/203mm with accessories.



**Model No. ST1000 FC**

- ST1000FC cutting torch.
- CSR 350 series regulators.
- Cuts up to 5"/127mm with accessories.



**Model No. ST900 FC**

- ST900FC\* cutting torch.
- CSR 350 series regulators.
- Cuts up to 5"/127mm with accessories.

## FirePower® Welding and Cutting Outfits

### Heavy-Duty

- Series 1 cutting tip.
- WH370FC-V torch handle with built-in flashback arrestors and check valves.
- 2-UM welding nozzle.
- 1/4" x 25' "R" grade hose, lighter, and goggles.
- Cuts up to 3/4"/19mm (5"/127mm w/ optional tips).
- Welds up to 1/8"/3.2mm (3"/76mm w/ optional nozzles).

### Medium Duty

- Series 3 cutting tip.
- WH270FC-V torch handle with built-in flashback arrestors and check valves.
- 0-UM welding nozzle.
- 3/16" x 12.5' "R" grade hose, lighter, and goggles.
- Cuts up to 1/2"/12.7mm (3"/76.2mm w/ optional tips).
- Welds up to 5/64"/1.98mm (3"/76mm w/ optional nozzles).



Part No.	Torch Handle	Cutting Attachment	Oxygen Regulators	Fuel Gas Regulator
<b>Heavy Duty</b>				
0384-2652	WH370FC-FS	CA350-FS	RF350-125-540	RF350-15-540
0384-2650	WH370FC-FS	CA350-FS	RF350-125-540	RF350-15-300
0384-2651	WH370FC-FS	CA350-FS	RF350-125-992	RF350-15-993
<b>Medium Duty</b>				
0384-2551	WH270FC-FS	CA250-FS	RF250-80-540	RF250-15-510
0384-2550	WH270FC-FS	CA250-FS	RF250-80-540	RF250-15-300



**Model No. FP350-510FC**  
Heavy-Duty



**Model No. FP250-510FC**  
Medium-Duty

## Torch Handles & Cutting Attachments - Heavy-Duty

### 300 Series Torch Handles - Heavy Duty

#### Use with All Fuel Gases

A new dimension in operator safety! Victor torch handles are available with VanGuard™ safety features:

- Built-in flashback arrestors - no need for accessory flash arrestors.
- Built-in reverse flow check valves.
- Works with all fuel gases. There are pressure restrictions for different gases.
- All Victor® torch handles with “B” size fittings are equipped with built-in reverse flow check valves along with built-in flashback arrestors.

#### Outfits with 315FC Series Torch Handles

- Journeyman® “Select”
- Journeyman II™

#### Outfits with H315FC Series Torch Handles

- Journeyman®

#### VanGuard™ Heavy Duty

Part No.	Model No.	Description	Hose Connection	Gas	Weight	Length
0382-0034	315FC	Boxed	9/16"-18	All	18 oz.	9"



Model No. 315FC

#### High Flow Torch Handle

Part No.	Model No.	Description	Hose Connection	Gas	Weight	Length
0382-0316	H315FC	Boxed	9/16"-18	All	18 oz.	9"



Model No. H315FC

### Cutting Attachments - Heavy Duty

#### Use with 300 Series Torch Handles

- Die-forged brass head.
- Spiral mixer blends oxygen & fuel.
- Smooth cutting valve (push type).
- Stainless steel tubes.
- Brass coupling nut & double “O” ring tapered seal gives quick gas-tight seal without a tightening wrench.
- Length 10-1/2" - Weight 32 oz. (.99 kg).

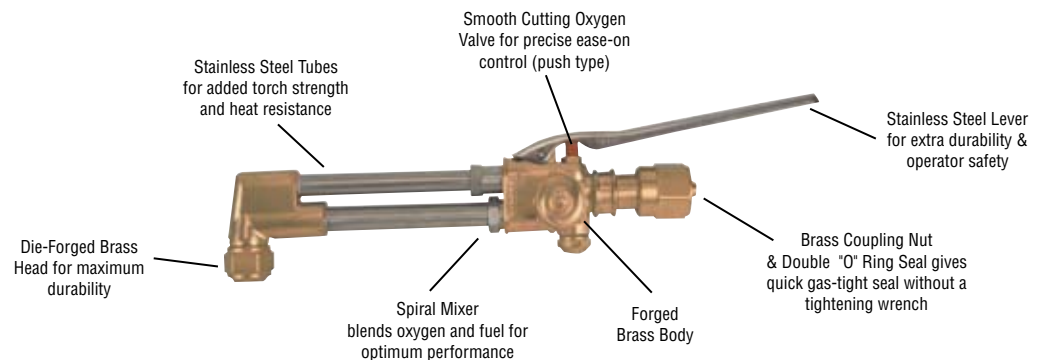
#### Outfits with 2460 Series Cutting Attachments

- Journeyman®
- Journeyman® Select™
- Journeyman II™

Part No.	Model No.	Cutting Range	Tip Series	Head Angle
0381-0816	CA2460	8"/200 mm	1	90°
0381-0817	CA2461	8"/200 mm	1	75°
0381-0818	CA2462	8"/200 mm	1	180°

Fuel Gas Usage: Can be used with **all fuel gases** with the proper cutting tip.

#### Design and Construction





## Torch Handles & Cutting Attachments - Heavy-Duty

### FirePower® Torch Handle - Heavy-Duty

- Built-in reverse flow check valves and flashback arrestors.
- Victor tube within a tube design.
- Three piece “Y” rear assembly with threaded connection.
- 9/16" x 18 hose connections.
- Stainless steel ball valves.
- One year warranty.



Part No.	Model No.	Hose Description
0382-0136	WH370FC-FS	Clamshell



Model No. WH370FC-FS

### FirePower® Cutting Attachment - Heavy-Duty

- CA 350-FS 5"/127mm capacity with proper tip series 1.
- Universal mixer.
- Triangular tube design.
- Stainless steel cutting oxygen lever and ball valve.
- One year warranty.



Part No.	Model No.	Hose Description	Cutting Range	Tip Series	Head Angle
0381-0744	CA350-FS	Clamshell	6"/150mm	1-101	90°



Model No. CA350-FS



## Quality, Reliability... Guaranteed!

When you choose Firepower® you can be sure you're getting premium quality tools and equipment with a proven record of superior performance and dependability.

## Torch Handles & Cutting Attachments - Medium-Duty

### 100 Series Torch Handles - Medium Duty

#### Use with All Fuel Gases

Victor® torch handles cover the full range of welding, cutting and heating needs.

A new dimension in operator safety!

VanGuard™ safety features:

- Built-in flashback arrestors-no need for accessory flashback arrestors.
- Built-in reverse flow check valves.
- Works with all fuel gases. There are pressure restrictions for different gases.
- Features Victor's® traditional threaded assemblies for quick economical repair.

#### Outfits with 100FC Series Torch Handles

- Super Range® II
- Performer®
- Portable Torch

Part No.	Model No.	Hose Description	Connection	Gas	Weight	Length
0382-0032	100FC	Boxed	9/16"-18	All	14 oz.	8-1/2"

\*All Victor® Torch Handles with "B" size fittings are equipped with built-in reverse flow check valves and built-in flashback arrestors.

\*\*The shape of the Torch Handle is a registered trademark of Victor® Equipment.



Model No. 100FC

### Cutting Attachments - Medium Duty

#### Use with 100FC Series Torch Handles

- Die-forged brass head.
- Spiral mixer blends oxygen & fuel.
- Smooth cutting valve (pull type).
- Stainless steel tubes.
- Brass coupling nut & double "O" ring tapered seal gives quick gas-tight seal tightening without a wrench.
- Length 8" (203.20 mm) - Weight 13 oz. (.40 kg).

#### Outfits with 100FC Series Cutting Attachments

- Super Range® II
- Performer®
- Portable Torch

Part No.	Model No.	Hose Description	Cutting Range	Tip Series	Head Angle
0381-0418	CA1350	Boxed	6"/150 mm	3	90°
0381-0420	CA1351	Boxed	6"/150 mm	3	75°
0381-0421	CA1352	Boxed	6"/150 mm	3	180°

\*Fuel Gas Usage: Can be used with all fuel gases and series 3 cutting tips..

\*\*The shape of the Torch Handle is a registered trademark of Victor® Equipment.



Model No. CA 1350

### FirePower® Torch Handle - Medium-Duty

- Built-in reverse flow check valves and flashback arrestors.
- Victor tube within a tube design.
- Three piece "Y" rear assembly with threaded connection.
- 9/16" x 18 hose connections.
- Stainless steel ball valves.
- One year warranty.



Part No.	Model No.	Hose Description
0382-0143	WH270FC-FS	Clamshell



Model No. WH270FC-FS





## Torch Handles & Cutting Attachments - Medium & Light-Duty

### FirePower® Cutting Attachment - Medium-Duty



- Universal mixer.
- Triangular tube design.
- Stainless steel cutting oxygen lever and ball valve.
- One year warranty.

Part No.	Model No.	Hose Description	Cutting Range	Tip Series	Head Angle
0381-0740	CA250-FS	Clamshell	3"/76.2mm	3-101	90°



Model No. CA250-FS

### J Series Torch Handles - Light Duty

#### For All Fuel Gases

- Cover the full range of welding, cutting and heating needs.
- Choose from patented standard models.
- Performance matched cutting attachments are available for each torch handle series.

Part No.	Model No.	Hose Connection	Gas	Weight	Length
0382-0006	J-40	3/24"-18	All	5-1/2 oz.	3-3/4"
0382-0127	J-28*	3/24"-18	All	8-1/2 oz.	6"

\*J-28 Torch includes accessory reverse flow check valves for regulator use.

\*\*The shape of the Torch Handle is a registered trademark of Victor® Equipment Company



Model No. J-40



Model No. J-28

### Cutting Attachments - Light Duty

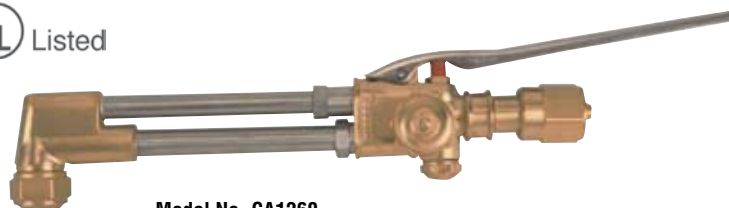
#### For Use with J Series Torch Handles

- Die-forged brass head.
- Spiral mixer blends oxygen & fuel.
- Smooth cutting valve (Pull Type).
- Stainless steel tubes.
- Brass coupling nut & double "O" ring seal gives quick gas-tight seal tightening without a wrench.
- Length 8" (203.20 mm) - Weight 13 oz. (.40 kg).

Part No.	Model No.	Cutting Range	Tip Series	Head Angle
0381-0162	CA1260	3"/75 mm	3	90°

\*Fuel Gas Usage: Can be used with **all fuel gases** & Series 3 cutting tips.

\*\*The shape of the cutting attachment is a registered trademark of Victor® Equipment Company.



Model No. CA1260

## Heating Nozzles - Heavy-Duty

### Multi-Flame Heating Nozzles - Heavy-Duty

For Use with 315FC, H315FC, HD310C Series Torch Handles

#### Model Type 55

For All Fuel Gases Except Acetylene



Model Type 55

Part No.	Size	Application and Description
0323-0328	8	High capacity heating head.
0323-0324	10*	Sizes 10, 15, & 20
0323-0325	15*	
0323-0326	20*	Use HD 310C (length 28") series torch handle & 3/8" hose.

\*Use HD310C Torch Handle with 3/8" hose (length up to 50').

#### Type 55 Components

Part No.	Application/Description	Available Size	Available Length	Available Angles
0311-0241	Multi-Flame Heads (Only)	8	-	-
0311-0230		10	-	-
0311-0231		15	-	-
0311-0232		20	-	-
0304-0094	Multi-Flame Elbows	-	28"	180°
0304-0011		-	26"	65°

Mixer and nut assembly, for pressures from 10 PSIG and up. **Part No. 0328-0012**

#### Model MFA

Acetylene or Hydrogen



Model No. MFA

Part No.	Size	Application and Description
0323-0250	4	Multi-flame heating head for heat treating, straightening & priming.
0323-0251	6	
0323-0252	8	
0323-0260	10	
0323-0261	12*	
0323-0262	15*	

\*Use model HD310C torch handle and 3/8" hose.

#### Model MFN

Propane & Natural Gas



Model No. MFN

Part No.	Size	Application and Description
0323-0292	8	Multi-flame heating head for pre-heating, priming, straightening, etc.
0323-0302	10	
0323-0303	12*	
0323-0304	15*	Sizes 4-8 (length 12") Sizes 10-15 (length 17-1/2")
0323-0305	20*	

\*Use model HD310C torch handle and 3/8" hose.

#### WARNING

##### Use add-on flashback arrestors

The high capacity torches as noted are designed for heavy applications found in such industries as scrapping, demolition, and foundries. Due to the capacity and/or design of each torch, flashback arrestors are not manufactured into these Victor® heavy industry torches. To reduce the risk of personal injury, death and/or property damage, use sufficient capacity flashback arrestors with all Victor® heavy industry torch products. Alternative fuel gas only refers to propane, natural gas, propylene gases and MAPP®. Acetylene, hydrogen, and gasoline are NOT included as an alternative gas.



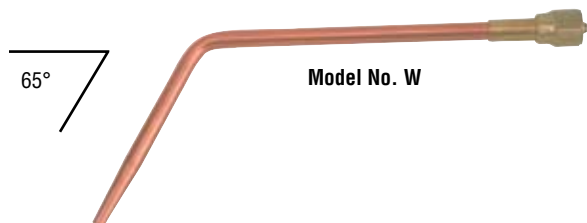
## Welding Nozzles - Heavy-Duty / Heating Nozzles - Medium-Duty

### Multi-Flame Welding Nozzles - Heavy-Duty

For Use with 300 Series Torch Handles

#### Model W

Acetylene and Hydrogen



Part No.	Size	Application and Description
0323-0110	000	One piece copper elbow tip.
0323-0111	00	
0323-0112	0	
0323-0120	1	Long cone flame.
0323-0121	2	
0323-0122	3	
0323-0130	4	General purpose welding & preheating.
0323-0131	5	
0323-0132	6	
0323-0140	7	Boxed packaging on all.
0323-0141	8	
0323-0142	10	

### Heating Nozzles - Medium-Duty

Use with 100 Series Torch Handles

#### Model MFA-1

Acetylene or Hydrogen



Part No.	Size	Application and Description
0324-0108	2	Multi-flame heating head for pre-heating, priming & straightening Sizes 2, 4, 6, 8 (length 12")
0324-0109	4	
0324-0110	6	
0324-0111	8	

#### Model MFN-1

Natural Gas & Propane



Part No.	Size	Application and Description
0324-0117	6	Multi-flame heating head for pre-heating, priming, straightening, etc. (length 12")

#### Model W-1



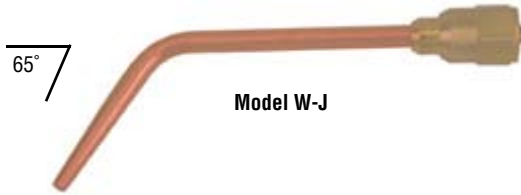
Part No.	Size	Application & Description
0324-0068	000	General purpose welding & pre-heating.
0324-0069	00	
0324-0070	0	
0324-0071	1	One piece copper elbow tip
0324-0072	2	
0324-0073	3	Long cone flame
0324-0074	4	
0324-0075	5	Sizes 000-7 (length 4-1/2")
0324-0076	6	
0324-0077	7	

## Welding Nozzles - Light-Duty

### Welding Nozzles - Light-Duty For Use with J Series Torch Handles

#### Model W-J

Acetylene and Hydrogen



Part No.	Size	Application and Description
0325-0082	00	General purpose welding & pre-heating.
0325-0083	0	
0325-0084	1	One piece copper elbow tip
0325-0085	2	
0325-0086	3	Long cone flame
0325-0087	4	

#### W-J (Elbow Only)



Part No.	Size	Application and Description
0311-0124	00	General purpose welding & pre-heating.
0311-0125	0	
0311-0126	1	One piece copper elbow tip
0311-0127	2	
0311-0128	3	Long cone flame

### Multi-Flame Heating Nozzle Data

Note: Approximate Gross BTU Content Per Cubic Foot.	
Acetylene	1470
Propane	2498
Methane	1000
Natural Gas	1000
Butane	3374
MAPP®	2406
Propylene	2371

**Note:** Type 55 nozzles NOT for use with ACETYLENE

**WARNING:** At no time should the withdrawal rate of an individual acetylene cylinder exceed 1/7 of the cylinder contents per hour. If additional flow capacity is required use an acetylene manifold system of sufficient size to supply the necessary volume.

#### Type 55 For Use with All Gases Except Acetylene

Tip Size	Oxygen Pressure (PSIG)	Fuel Pressure (PSIG)	Oxygen Consumption	Fuel Consumption (SCFH)	BTU per Hour
6	70/80	15/20	160	65	See chart
8	70/85	15/25	220	85	
10*	70/100	15/25	350/460	150/200	
15*	90/120	20/35	600/350	250/350	
20*	100/150	30/50	900/1150	400/500	

#### Type MFA & MFA-1 For Use with Acetylene

Tip Size	Oxygen Pressure (PSIG)	Fuel Pressure (PSIG)	Oxygen Consumption	Fuel Consumption (SCFH)	BTU per Hour
2	4/8	4/8	3/10	3/9	See chart
4	8/12	6/10	7/22	6/20	
6	10/15	8/12	15/44	14/40	
8*	20/30	10/15	33/88	30/80	
10	30/40	12/15	44/110	40/100	
12*	50/60	12/15	66/165	60/150	
15*	50/60	12/15	99/244	90/220	

#### Type MFN & MFN-1 For Use with Natural Gas & Propane

Tip Size	Oxygen Pressure (PSIG)	Fuel Pressure (PSIG)	Oxygen Consumption	Fuel Consumption (SCFH)	BTU per Hour
6	8/20	2/10	20/80	5.5/20	See chart
8	10/20	10/15	40/140	10/35	
10	10/30	12/20	80/320	20/80	
12*	30/125	15/25	200/800	50/200	
15*	30/125	15/25	200/800	50/200	
20*	40/135	15/25	300/1000	75/250	

\* Use Model HD 310C torch handle and 3/8" hose



## Special Application Accessories - Heavy, Medium & Light-Duty

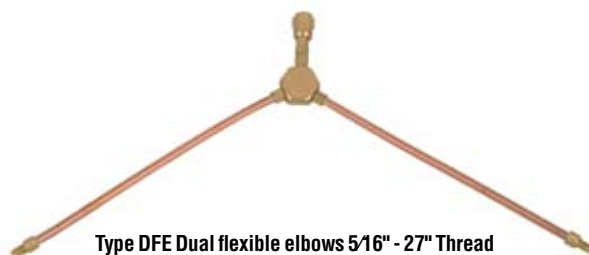
### Multi-Gas Accessories

Part No.	Torch Series	Type	Fuel Gas Usage	Application and Description
0323-0192	300*	DFE	Multi-Gas Fuel Service	Dual flexible elbow nozzle assembly for special welding, heating, brazing needs. Uses replaceable tip ends.
0324-0092	100**	DFE-1	Multi-Gas Fuel Service	Dual flexible elbow nozzle assembly for special welding, heating, brazing needs. Uses replaceable tip ends.
0323-0242	300*	UN	Multi-Gas Fuel Service	Standard bend nozzle for welding, heating, and brazing. Uses replaceable tip ends.
0325-0101	J***	UN-J	Multi-Gas Fuel Service	Standard bend nozzle for welding, heating, and brazing. Uses replaceable tip ends.

\*Use with 315FC, HD310C

\*\*Use with 100FC Torch Handles

\*\*\*Use with J-28 Torch Handle



Type DFE Dual flexible elbows 5/16" - 27" Thread



Type UN Length 5" - 5/16" - 27" Thread

### Oxy-Acetylene Universal Mixer Nozzle

Part No.	Torch Series	Type	Fuel Gas Usage	Application and Description
0323-0191	300*	FE	Multi-Gas Fuel Service	Flexible elbow for special welding, brazing, & heating needs. Multi-fuel gas service. Uses replaceable tip ends.
0324-0066	100**	FE-1	Multi-Gas Fuel Service	Flexible elbow for special welding, brazing, & heating needs. Multi-fuel gas service. Uses replaceable tip ends.
0323-0329	300*	0-UM-350	Oxy-Acetylene	Oxy-Acetylene universal mixers used with exact performance & individual nozzles are not needed. Uses replaceable tip ends.
0328-0005	100*	4-UM-1	Oxy-Acetylene	Oxy-Acetylene universal mixers used with exact performance & individual nozzles are not needed. For use with replaceable elbow tips; Type ET

\*Use with 315FC, HD310C

\*\*Use with 100FC Torch Handles



Type FE Length 11-1/2" - 5/16"-27" Thread



Type UM Length 2-1/2"

## Straight Cutting Torches & Cutting Machine Reference Guide

Torch Model	Tip Usage		Fuel Gas Usage	Cut Capacity
<b>"FC" Models</b>				
ST2600FC VanGuard™	Series 1		Any Fuel Gas	1/8"/3.25mm to 8"/203mm
ST1000FC VanGuard™	Series 1		Any Fuel Gas	1/8"/3.25mm to 5"/127mm
ST900FC VanGuard™	Series 1		Any Fuel Gas	1/8"/3.25mm to 5"/127mm
CST800FC VanGuard™	Series 3		Any Fuel Gas	1/8"/3.25mm to 4"/102mm
<b>Machine Torches</b>				
MT 200	2 Hose	Series 1	LP/NG**, ACET.*	7"/179 mm
MT 300	3 Hose	Series 1	LP/NG**, ACET.*	12"/305mm
MT 1065	3 Hose	Series 1	ACET.	7"/179 mm
MT 5	3 Hose	Series 1	ALL	7"/179 mm
<b>Mill &amp; Foundry Torches</b>				
HC 1400 ⚠	Series HDNL		Butane, Propane, NG	30"/76.2 mm
HC 1500 ⚠	Series 2-285N		NG, Propane	48"/1230 mm
<b>Cutting Machines</b>			<b>Length</b>	<b>Circle</b>
VCM 200			72"/1.83 m	96"/2.44 m
Auto 24			2' x 2' 600 mm x 600 mm	
* May also be used on other pressurized gases				
** May also be used on other fuel gases except acetylene				



On the job... the proper tools  
**CAN** make  
all the difference.

### **WARNING**

**Use add-on flashback arrestors**

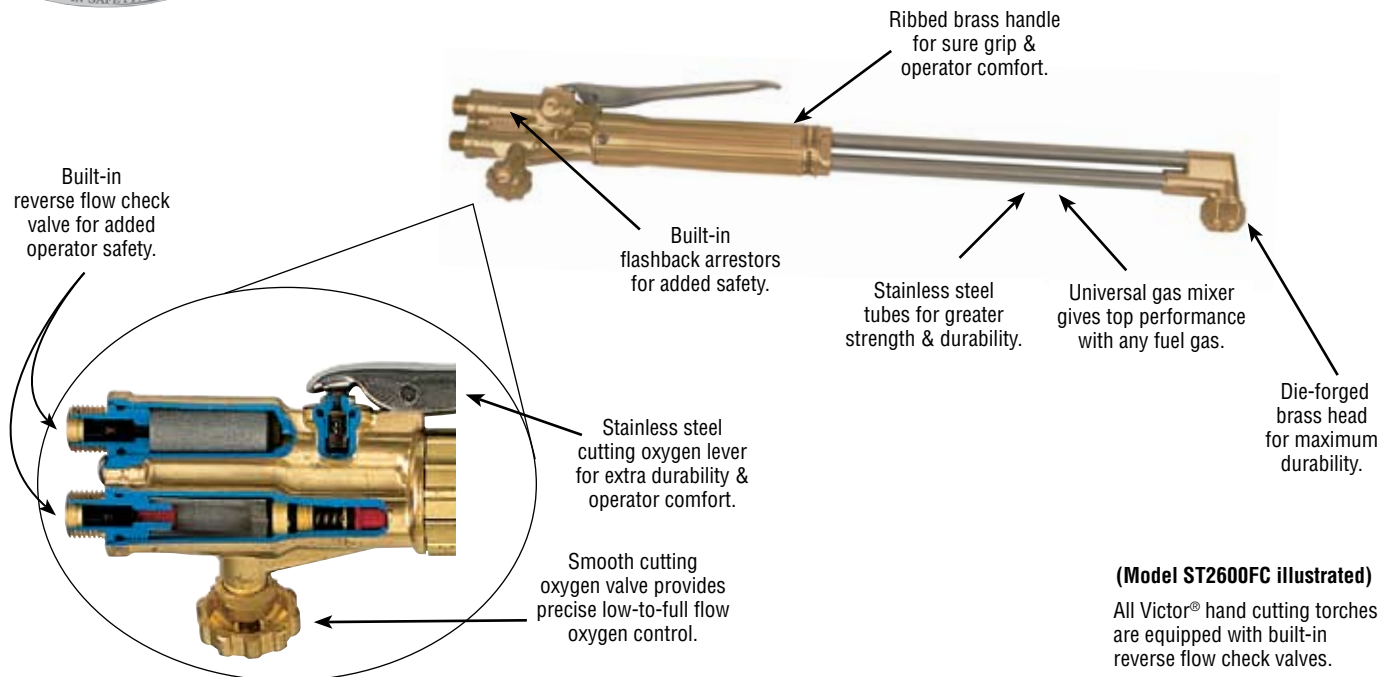
The high capacity torches as noted are designed for heavy applications found in such industries as scrapping, demolition, and foundries. Due to the capacity and/or design of each torch, flashback arrestors are not manufactured into these Victor® heavy industry torches. To reduce the risk of personal injury, death and/or property damage, use sufficient capacity flashback arrestors with all Victor® heavy industry torch products. Alternative fuel gas only refers to propane, natural gas, propylene gases and MAPP®. Acetylene, hydrogen, and gasoline are NOT included as an alternative gas.



## Hand Cutting Torches

### Hand Cutting Torches

Victor® “Universal Torches” combine the spiral and injector principles. The result is a high performance torch that operates on any fuel gas. Universal torch cutting capacity from 1/8" to 12".



(Model ST2600FC illustrated)

All Victor® hand cutting torches are equipped with built-in reverse flow check valves.

### Model ST 2600FC VanGuard™ Series

A New Dimension in Operator Safety!

Victor Torch Handles are available with VanGuard™ safety features:

- Built-in flashback arrestors. No need for accessory flash arrestors.
- Built-in reverse flow check valves.
- Works with all fuel gases. There are pressure restrictions for different gases. VanGuard™ torch handles also feature Victor® traditional threaded assemblies for quick economical repair if service is necessary.
- For use with any fuel gas.
- Uses series 1 cutting tips.
- Cutting capacity 1/8"/3.25 mm to 12"/305 mm.
- Includes built-in patented flashback arrestors and reverse flow check valves for added safety.

Outfits with “FC” Models VanGuard™ Series Cutter® “Select”™

Part No.	Model No.	Lever Position	Tip Series	Head Angle	Length
0381-1486	SST 2600FC	Top rear	1	90°	17"/43cm
0381-1487	SST 2601FC	Top rear	1	75°	17"/43cm
0381-1480	ST 2600FC	Top rear	1	90°	21"/53cm
0381-1482	ST 2601FC	Top rear	1	75°	21"/53cm
0381-1484	ST 2602FC	Top rear	1	180°	21"/53cm
0381-1496	ST 2630FC	Top rear	1	90°	36"/91cm
0381-1498	ST 2631FC	Top rear	1	75°	36"/91cm
0381-1500	ST 2632FC	Top rear	1	180°	36"/91cm
0381-1502	ST 2650FC	Top rear	1	90°	48"/122cm
0381-1503	ST 2651FC	Top rear	1	75°	48"/122cm
0381-1504	ST 2652FC	Top rear	1	180°	48"/122cm
0381-1506	ST 2670FC	Top rear	1	90°	72"/184cm
0381-1508	ST 2671FC	Top rear	1	75°	72"/184cm
0381-1510	ST 2672FC	Top rear	1	180°	72"/184cm

Note: Other torch models available. Ask for details.

## Hand Cutting Torches

### Model ST 1000FC VanGuard Series

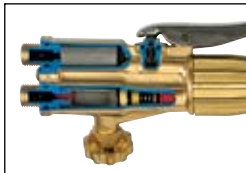
Victor® Torch Handles are available with VanGuard™ safety features:

- Built-in flashback arrestors no need for accessory flash arrestors.
- Built-in reverse flow check valves.
- Works with all fuel gases. There are pressure restrictions for different gases. VanGuard™ torch handles also feature Victor traditional threaded assemblies for quick economical repair if service is necessary.
- For use with any fuel gas.
- Uses series 1 cutting tips.
- Cutting capacity 1/8"/3.25 mm to 5"/127 mm.
- Includes built-in patented flashback arrestors and reverse flow check valves for added safety.

**Outfits with "FC" Models VanGuard™ Series**  
Cutter® "Select™"

Part No.	Model No.	Lever position	Tip Series	Head Angle	Length
0381-1640	SST 1000FC	Bottom rear	1	90°	17"/43cm
0381-1642	SST 1001FC	Bottom rear	1	75°	17"/43cm
0381-1641	ST 1000FC	Bottom rear	1	90°	21"/53cm
0381-1643	ST 1001FC	Bottom rear	1	75°	21"/53cm
0381-1644	ST 1030FC	Bottom rear	1	90°	36"/91cm
0381-1645	ST 1031FC	Bottom rear	1	75°	36"/91cm
0381-1646	ST 1032FC	Bottom rear	1	180°	36"/91cm
0381-1647	ST 1050FC	Bottom rear	1	90°	48"/122cm
0381-1648	ST 1051FC	Bottom rear	1	75°	48"/122cm

**Note:** Other torch models available. Ask for details.



Model No. ST 1000FC

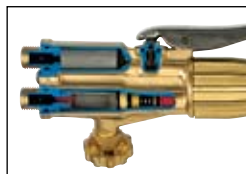
### Model ST 900FC VanGuard Series

Victor® torch handles are available with VanGuard™ safety features:

- Built-in flashback arrestors no need for accessory flash arrestors
- Built-in reverse flow check valves.
- Works with all fuel gases. There are pressure restrictions for different gases. VanGuard™ torch handles also feature Victor® traditional threaded assemblies for quick economical repair.
- For use with any fuel gas, 5 PSIG and above.
- Uses series 1 cutting tips.
- Hose connections are 9/16"-18" unless noted.
- Cutting capacity 1/8"/3.25 mm to 5"/127 mm.
- Includes built-in patented flashback arrestors and reverse flow check valves for added safety.

**Outfits with "FC" Models VanGuard™ Series**  
Cutter® "Select™"

Part No.	Model No.	Lever Position	Tip Series	Head Angle	Length
0381-1620	SST 900FC	Top rear	1	90°	17"/43 cm
0381-1622	SST 901FC	Top rear	1	75°	17"/43 cm
0381-1621	ST 900FC	Top rear	1	90°	21"/53 cm
0381-1623	ST 901FC	Top rear	1	75°	21"/53 cm
0381-1624	ST 930FC	Top rear	1	90°	36"/91 cm
0381-1625	ST 931FC	Top rear	1	75°	36"/91 cm
0381-1626	ST 932FC	Top rear	1	180°	36"/91 cm
0381-1629	ST 950FC	Top rear	1	90°	48"/122 cm
0381-1630	ST 951FC	Top rear	1	75°	48"/122 cm



Model No. ST 900

### Model CST 800FC VanGuard Series

Victor® torch handles are available with VanGuard™ safety features:

- Built-in flashback arrestors no need for accessory flash arrestors.
- Works with all fuel gases. There are pressure restrictions for different gases. VanGuard™ Torch handles also feature Victor® traditional threaded assemblies for quick economical.
- For use with any fuel gas, 2 PSIG and above.
- Cutting capacity 1/8"/3.25 mm to 4"/102mm.
- Built-in reverse flow check valves.
- Uses series 3 cutting tips.
- Hose connections are 9/16"-18".

Part No.	Model No.	Lever Position	Tip Series	Head Angle	Length
0381-0392	CST 800FC	Top front	3	90°	17"/43cm



Model No. CST 800FC





## Machine Cutting Torches

### Machine Cutting Torches

#### Models MT 200 & MT 300 Series

Victor® machine torches are available in two and three hose versions. Two hose torches are available in 4-1/2", 10" and 18" models, and three hose torches are available in 10" and 18" models. Three hose torches are high performance "straight through" design that minimizes turbulence and improves cut quality. Accessory reverse flow check valves are supplied for use at the torches inlet connection. All machine torches use series 1 cutting tips.

#### Model MT 200 Series - 2 Hose Torches

Part No.	Model No.	Total Length	Barrel Length	Racking Length	Gas	Cutting Capacity
0380-0215	MT 204A	8-1/2"/203 mm	4-1/2"/104 mm	N/A	ACET*	7"/176 mm
0380-0217	MT 210A	14"/355 mm	10"/252 mm	7"/176 mm	ACET*	7"/176 mm
0380-0216	MT 210N	14"/355 mm	10"/252 mm	7"/176 mm	LP/NG**	7"/176 mm

#### Model MT 300 Series - 3 Hose Torches

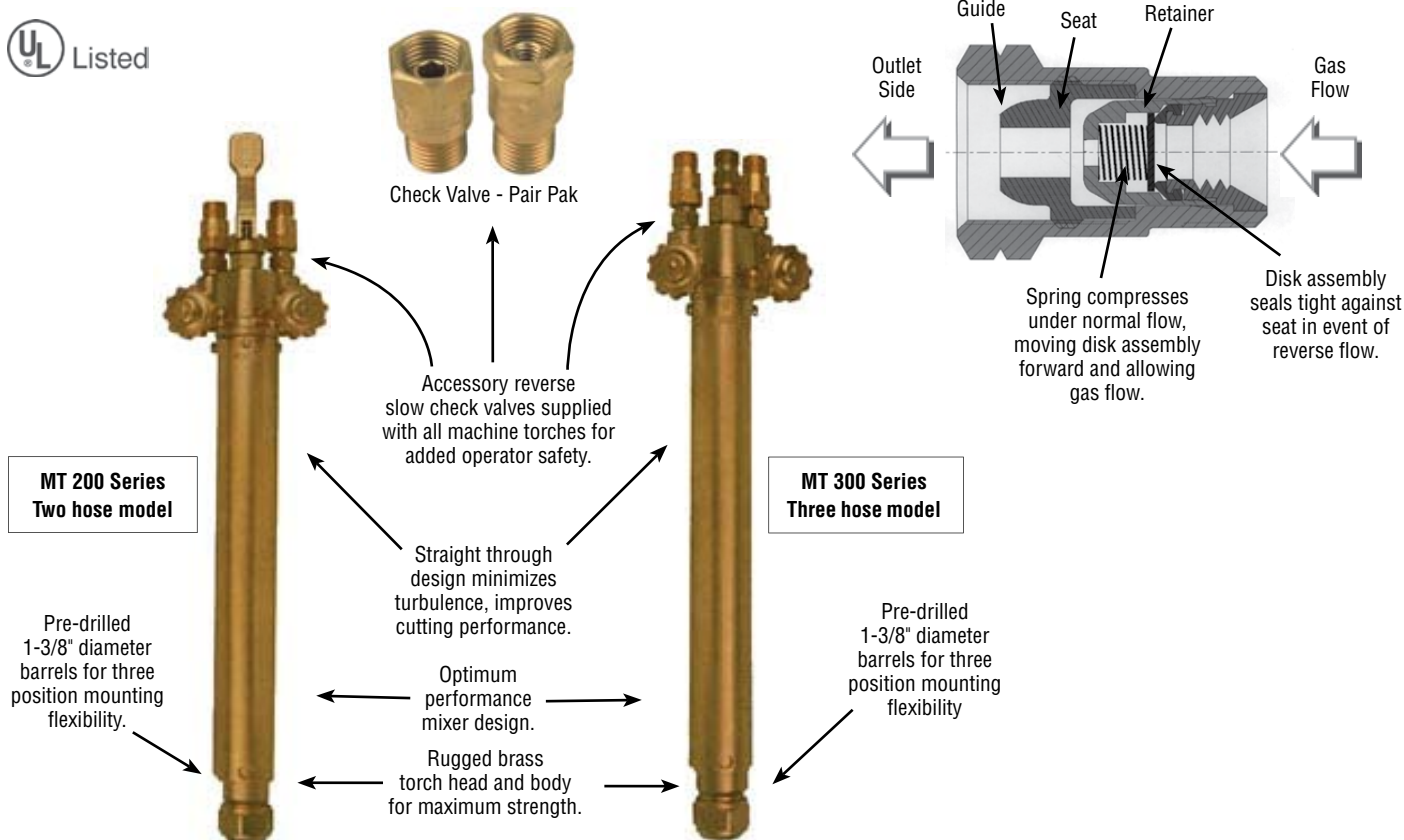
Part No.	Model No.	Total Length	Barrel Length	Racking Length	Gas	Cutting Capacity
0380-0222	MT 310A	14"/355 mm	10"/252 mm	7"/180 mm	ACET*	12"/305 mm
0380-0220	MT 310N	14"/355 mm	10"/252 mm	7"/180 mm	LP/NG**	12"/305 mm
0380-0221	MT 310NV	14"/355 mm	10"/252 mm	7"/180 mm	LP/NG**	12"/305 mm
0380-0223	MT 310AV	14"/355 mm	10"/252 mm	7"/180 mm	ACET*	12"/305 mm
0380-0227	MT 318A	22-1/2"/585 mm	18"/460 mm	15"/375 mm	ACET	12"/305 mm
0380-0228	MT 318AV	22-1/2"/585 mm	18"/460 mm	15"/375 mm	ACET*	12"/305 mm
0380-0225	MT 318N	22-1/2"/585 mm	18"/460 mm	15"/375 mm	LP/NG**	12"/305 mm
0380-0226	MT 318NV	22-1/2"/585 mm	18"/460 mm	15"/375 mm	LP/NG**	12"/305 mm

\*May also be used on other pressurized fuel gases

\*\*May also be used on other fuel gases except acetylene

Other machine torch models available. Gear racks: Must be ordered separately!

V=Valve on Cutting Oxygen - 9/16"-18" Inlet



## Torch Handles / Cutting Attachments

### Cutskill® Torch Handles

Cutskill® heavy duty apparatus for welding, cutting, and heating. Torch handles include reverse flow check valves and built-in flashback arrestors for added operator safety.

**CUTSKILL®**

#### WH 370FC-V Torch Handle - Heavy Duty

- Heavy duty apparatus.
- 9/16" - 18" connections.
- Built-in check valves & flash arrestors.
- Tube within a tube design.
- Three piece design "Y" assembly with threaded connections.
- Capacity: welds to 3"/7.6cm with proper nozzle (W).
- Two year warranty.



Model No. WH 370FC-V

Listed

Part No.	Model No.	Weight	Length	Description
0387-2750	WH 370FC-V	18 oz.	9"	Heavy Duty

#### WH 270FC-V Torch Handle - Medium Duty

- Medium duty apparatus.
- 9/16" - 18" connections.
- Built-in check valves & flash arrestors.
- Tube within a tube design.
- Three piece design "Y" assembly with threaded connections.
- Capacity: welds to 1-1/4"/3.1cm with proper nozzle (W-1).
- Two year warranty.



Model No. WH 270FC-V

Listed

Part No.	Model No.	Weight	Length	Description
0387-2700	WH 270FC-V	16 oz.	8-1/2"	Medium/Light Duty

### Cutskill® Cutting Attachments

Heavy and medium duty cutting attachments for use with acetylene, propane, butane, liquid air fuel gases, MAPP®, natural gas (2 PSIG or more), propylene & hydrogen

**CUTSKILL®**

#### CA 370-V Cutting Attachments - Heavy Duty

- Capacity: CA-370-V, cut to 6"/150 mm with proper tip, Series 1.
- 90° head.
- Universal mixer.
- Ease-on cutting oxygen.
- Two year warranty.



Model No. CA 370-V

Listed

Part No.	Model No.	Weight	Length	Tips	Cuts	Use With
0387-2650	CA 370-V	32 oz.	10-1/2"	Series 1	6"	0387-2750

#### CA 270-V Cutting Attachments - Medium Duty

- Capacity: CA-270-V, Cut to 5"/125 mm with proper tip, Series 3.
- 90° head.
- Universal mixer.
- Ease-on cutting oxygen.
- Two year warranty.



Model No. CA 270-V

Listed

Part No.	Model No.	Weight	Length	Tips	Cuts	Use With
0387-2600	CA 270-V	13 oz.	8"	Series 3	5"	0387-2700



## Cutting Machine & Accessories

### Cutting Machine

#### VCM 200 Series

The versatile VCM-200 is a precision, tractor-type machine that can be used on its own track for straight line cutting and a variety of welding operations. Off track and with a radius rod assembly, the VCM 200 can be used for circle cutting.

- Large thumb screws for hand tight adjustments.
- Dual drive controls & direct speed readout.
- Cone disc drive.
- Constant speed AC induction motor located on the side opposite the torch for cooler, more efficient operation.
- Counter-balanced design allows torch racking distance up to 18" from the machine.
- Speed constant over wide range of temperature.
- Torch holder designed for 1 3.8"/35 mm barrel diameter torches.

#### Cutting Capacities

- Length increments of 72"/1.83 m (track length).
- Circle diameters 4"/100 mm to 96"/2.44 m.

#### Speed Range

- 1"/25.2 mm to 60"/1.52 m/minute.

#### Dimensions

- Length - 14.25"/359 mm.
- Width - 11"/277 mm (machine only) 28.5"/718 mm (machine & torch holder).
- Height - 11.5"/289 mm (top of torch holder) 5.5"/138mm (top of machine).

#### Weight

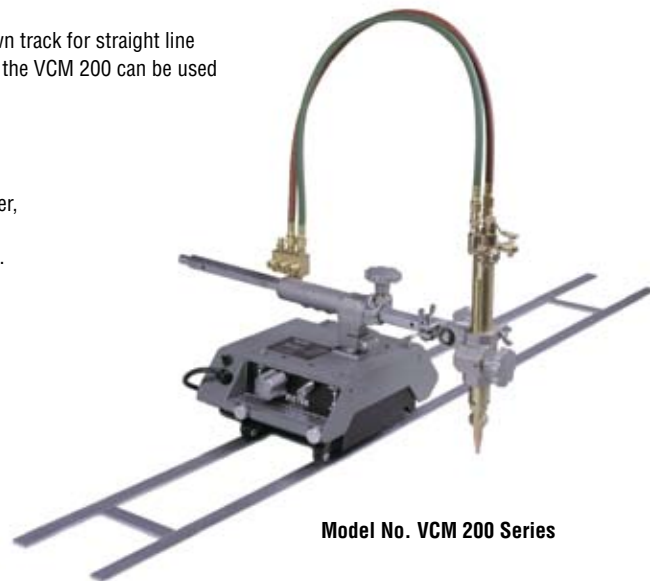
- Machine - 47.0 lbs./21 kg.

#### VCM 200 HS (High Speed)

Has all the convenience and portability features of the standard VCM-200 machine, a speed range of 5"/13cm to 120"/305 cm/minute, and a flat mounting deck.

#### VCM 200 HT (High Temperature)

Same convenience, portability features and speed of the VCM-200 (Max. temp. 3000° F) plus the addition of a heat shield.



Model No. VCM 200 Series



#### Package Description #1

- Cutting machine.
- MT 210A torch & torch rack.
- Hoses & Fittings (For 2 hose operation).
- 32 pitch pinion torch holder.
- 3 hose manifold block.

#### Package Description #2

- Cutting machine.
- Hoses & fittings (For 2 hose operation).
- 32 pitch pinion torch holder.
- 3 hose manifold block.

#### VCM 200 Series

Part No.	Model No.	Speed Range/Minute	Pkg. Includes
0200-0220	VCM 200	1"/25.2 mm to 60"/1.52 mm	See package #1
0200-0240	VCM 200HT*	1"/25.2 mm to 60"/1.52 mm	See package #1
0200-0221	VCM 201	1"/25.2 mm to 60"/1.52 mm	See package #2

\*Models VCM-200HT, VCM-201HT, include heat shield

Export models available with 220AC to 110 AC step down transformer  
Standard machine 110AC

#### Accessories

Part No.	Description
0212-0018	12 ft. track section for line cutting
0212-0005	6 ft. track section for line cutting
0252-0040	Radius rod for circle cutting
0252-0136	Dual torch mount assembly
0252-0103	Heat shield

### Cutting Accessories

#### Model BHA 2

Model BHA 2 adjustable head adds flexibility to machine cutting torches by allowing bevel cuts without changing the position of the torch. It can be set at any angle from 0 to 90° on either side of vertical. Optional preheat attachment is available for use with the BHA adjustable head attachment which uses replaceable tip ends.

Part No.	Description
0383-0012	BHA 2
0304-0060	Preheating attachment

Use Series 1 cutting tips.



Model No. BHA 2

#### Model 591

Model 591 strip cutter for use with machine cutting torches only. It is designed to accept two tips for use with a common torch. Adjustable for cutting strips from 1-1/4"/.32 cm to 12"/30 cm wide, and thickness up to 3/8 cm.

Part No.	Description
0383-0000	591 strip cutter

Use Series 1 cutting tips.



Model No. 591

## Cutting Tips & Outfits

### CutSkill® Cutting Outfit

#### Heavy Duty

- 350 series regulators.
- WH370FC-V torch handle with built-in flashback arrestors and check valves.
- CA 370-V cutting attachment.
- 2-UM welding nozzle.
- Series 1 cutting tip.
- Toolbox.
- RM grade hose, lighter, and soft-sided goggles.
- Cuts up to 3/4"/19mm (6"/153mm with optional tips).
- Welds up to 1/8"/3.2mm (3"/76mm with optional tips).



### CUTSKILL®

Part No.	Description
0384-2600	Outfit (510)
0384-2601	Outfit (300)
0384-2602	Outfit (992-993)*

\* British Fitting

#### Medium Duty

- 250 series regulators.
- WH270FC-V torch handle with built-in flashback arrestors and check valves.
- CA 270-V cutting attachment.
- 0-UM welding nozzle.
- Series 3 cutting tip.
- Toolbox.
- RM grade hose, lighter, and soft-sided goggles.
- Cuts up to 1/2"/12mm (5"/127mm with optional tips).
- Welds up to 5/64"/1.9mm (1-1/4"/31mm with optional tips).



Part No.	Description
0384-2500	Outfit (510)
0384-2501	Outfit (300)
0384-2502	Outfit (992-993)*

\* British Fitting

## Cutting Tips

### One Piece Acetylene Cutting Tips

#### Series 1 1-101

General purpose hand & machine torch cutting.

Size	Part No.
000	0330-0003
00	0330-0004
0	0387-0134*
1	0330-0005
2	0330-0006
3	0330-0002
4	0330-0007
5	0330-0008
6	0330-0009
7	0330-0013
8	0330-0014

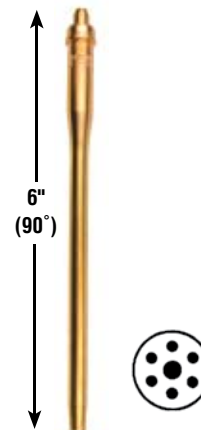


\*Clamshell package

#### Series 1 1-101L

General purpose extra length tips.

Size	Part No.
4	0330-0531
6	0330-0535



#### Series 3 3-101

General purpose hand & machine torch cutting.

Size	Part No.
000	0331-0002
00	0331-0009
00	0387-0144*
0	0331-0013
1	0331-0014
2	0331-0015
3	0331-0016
4	0331-0017
5	0331-0018



\*Clamshell package

#### Series 1 1-108

Boiler tube removal. Tip is short to insert head & tip inside tube.

Size	Part No.
0	0330-0058
1	0330-0059
2	0330-0063
3	0330-0064
4	0330-0065



#### Series 1 1-112

Cutting close to bulkheads and hand cutting of river heads. Machine cutting 45° with torch perpendicular.

Size	Part No.
2	0330-0086



#### Series 1 1-101 30°

General Purpose hand cutting.  
Machine cutting 30° with torch perpendicular.

Size	Part No.
0	0330-0198
1	0330-0199
2	0330-0284

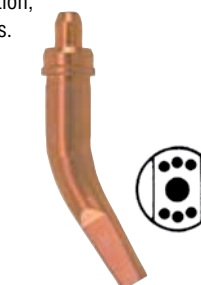


#### Series 1 1-118 & 3 3-118

Deseaming, scarfing, gouging, wild preparation, removing defective welds and washing rivets.

##### Series 1 1-118

Size	Part No.
0	0330-0109
2	0330-0113
4	0330-0114
6	0330-0115
8	0330-0116



##### Series 3 3-118

Size	Part No.
2	0331-0035

## Two Piece Liquid Air Fuel Gas, MAPP® & Propylene Cutting Tips

### Series 1 GPP & 3 GPP

General purpose hand and machine cutting torches.

#### Series 1 GPP

Size	Part No.
00	0333-0261
0	0333-0262
1	0333-0263
2	0333-0264
3	0333-0265
4	0333-0266
5	0333-0267
6	0333-0268



### Series 1 MTHP

High speed machine cutting through 10"/252mm.

Size	Part No.
00	0333-0352
0	0333-0353
1	0333-0354
2	0333-0355
3	0333-0356
4	0333-0357
5	0333-0358



#### Series 3 GPP

Size	Part No.
0	0333-0352

### Series 1 GPM

General purpose hand and machine cutting torches.

Size	Part No.
00	0333-0221
0	0333-0222
1	0333-0223
2	0333-0224
3	0333-0225
4	0333-0226



### Series 1 MTHM

High speed machine cutting through 10"/252mm.

Size	Part No.
00	0333-0339
0	0333-0340
1	0333-0341
2	0333-0342



### Series 1 HPP

Heavy preheat for scrap, bevel & other heavy preheat requirements.

Size	Part No.
4	0333-0286



## One Piece Liquid Air Fuel Gas, MAPP® & Propylene Cutting Tips

### Series 1 1-303MP

General purpose hand and machine cutting.

Size	Part No.
0	0330-0188
1	0330-0189
2	0330-0193
3	0330-0194
4	0330-0195



### Series 1 1-318MP

Scarfing, gouging, deseaming, rivet cutting and removing defective metal or welds.

Size	Part No.
4	0330-0335





## Cutting Tips

### Two Piece Liquid Air Fuel Gas, MAPP® & Propylene Cutting Tips

#### Series BTMP

High performance bevel cutting for use with MAPP® & propylene gases.

Size	Part No.
4	0333-0209
5	0333-0210
6	0333-0211



### One Piece Propane & Natural Gas Cutting Tips

#### Series 1 1-200

General purpose hand and machine cutting.

Size	Part No.
1	0330-0144
2	0330-0145



#### Series 1 1-207

Using for "blowing" rivets.  
Popular with various railroads.

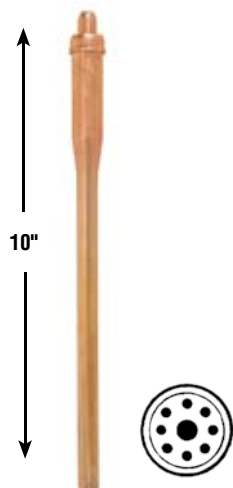
Size	Part No.
4	0330-0166



#### Series 1 1-200L

General purpose extra length tips.

Size	Part No.
4	0330-0537



#### Series 1 1-218

Deseaming, gouging, weld preparation,  
removing defective welds, and washing rivets.

Size	Part No.
4	0330-0178
6	0330-0179



#### Series 1 1-234

Cutting close to bulkheads, rivet cutting, etc.

Size	Part No.
2	0330-0341



## One Piece Propane & Natural Gas Cutting Tips

### Series 1 MCN

For applications requiring extra heavy preheat and wide kerf.

Size	Part No.
6	0330-0543



### Series 3-GPN

General purpose hand and machine cutting torches.

Size	Part No.
00	0333-0398
0	0333-0399
1	0333-0400
2	0333-0401
3	0333-0402



### Series 1 HDNL

For extra heavy duty cutting torches, emergency billet cutting, caster cut-off, steel mill scrap cutting, and foundry.

Size	Part No.
8	0330-0554
10	0330-0547
12	0330-0548



### Series 1 1-MTHN

High speed machine cutting through 10/252mm length tips.

Size	Part No.
00	0333-0363
0	0333-0364
1	0333-0365
2	0333-0366
3	0333-0367
4	0333-0368
5	0333-0369
6	0333-0370



### Series 1 GPN

General purpose hand and machine cutting torches.

Size	Part No.
000	0333-0300
00	0333-0301
0	0333-0302
1	0333-0303
2	0333-0304
3	0333-0305
4	0333-0306
5	0333-0307
6	0333-0308
7	0333-0309
8	0333-0310



### Series 1 1-HPN

Heavy preheat for scrap, bevel and other heavy preheat requirements.

Size	Part No.
1	0333-0323
2	0333-0324
3	0333-0325
4	0333-0326
5	0333-0327
6	0333-0328
7	0333-0330
10	0333-0331
12	0333-0332







## Cutting / Heating Tips

### One Piece Propane & Natural Gas Cutting Tips

#### Series 1 BTN

High performance bevel cutting for use with mild steel.

Size	Part No.
4	0333-0206
5	0333-0207
6	0333-0208



#### Series 1 CSN

A coarse splined scrap cutting tip for use with natural gas.

Size	Part No.
8	0333-0411



### Acetylene Heating Tips

#### Series 1 MFTA

For preheating before welding, descaling, paint burning, etc.

Size	Part No.
6	0330-0527
8	0330-0528
10*	0330-0523
12*	0330-0524



\*Use 3/8"/9.75mm hose

Required pressures: 12/15 ACET;  
70/80 PSIG Oxy.

Note: Size 8 is maximum size for use with cutting attachments.

### Propane & Natural Gas Heating Tips

#### Series 1 MFTN

For preheating, descaling, paint burning, etc.

Size	Part No.
10	0330-0521

Required pressures: 15/30 PSI  
Fuel; 70/80 PSIG Oxy.

Note: Not for use with cutting attachments



## Fire-Stick™ / Flashback Arrestors

### Fire-Stick™

- Two models available with or without regulator.
- Available in a six pack point of purchase (P.O.P.) display pack or individually packaged.
- For propane (Hose approved for LP).
- Two year limited warranty.



Part No.	Model No.	Description	BTU's
0384-1251	HS-101	Fire-Stick™ with R-LP regulator	350,000 ea.

## Safety & Convenience Accessories

### Flamebuster™ Flashback Arrestor



Part No. 0656-0001

Part No.	Model No.	Description
0656-0001	FB-1	Torch pair pak (oxy & fuel)
0656-0004	FBR-1	Regulator pair pak (oxy & fuel)
0657-0011	FB-F	Torch (fuel) flashback arrestor
0657-0015	FB-FR	Regulator (fuel) flashback arrestor
0657-0010	FB-O	Torch (oxy) flashback arrestor
0657-0014	FB-OR	Regulator (oxy) flashback arrestor

### Flamebuster™ Plus Flashback Arrestor



Part No. 0656-0002

Part No.	Model No.	Description
0656-0002	FBP-1	Torch pair pak

### VanGuard™ Flashback Arrestor Replacement Cartridge



Part No. 0657-0036

Part No.	Description
0657-0036	Torch handle replacement cartridge (315FC, 100FC, J-100FC, & CST800FC) (both gases)

### Kwik Connect™ Torch/Hose Connections



Part No. 0656-0000

Part No.	Description
0656-0000	KC-1 Kwik Connect™ pair pak (oxy & fuel)

## Check Valves

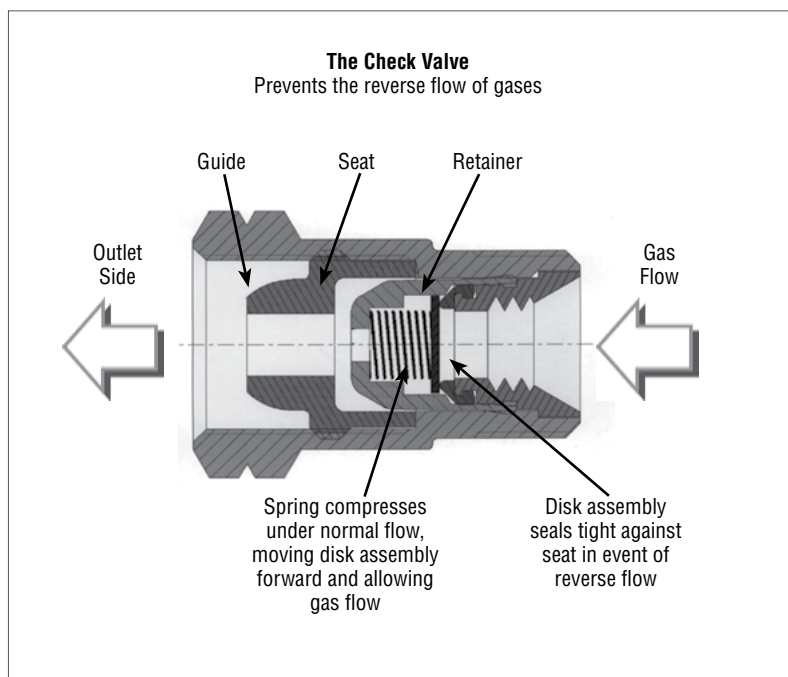
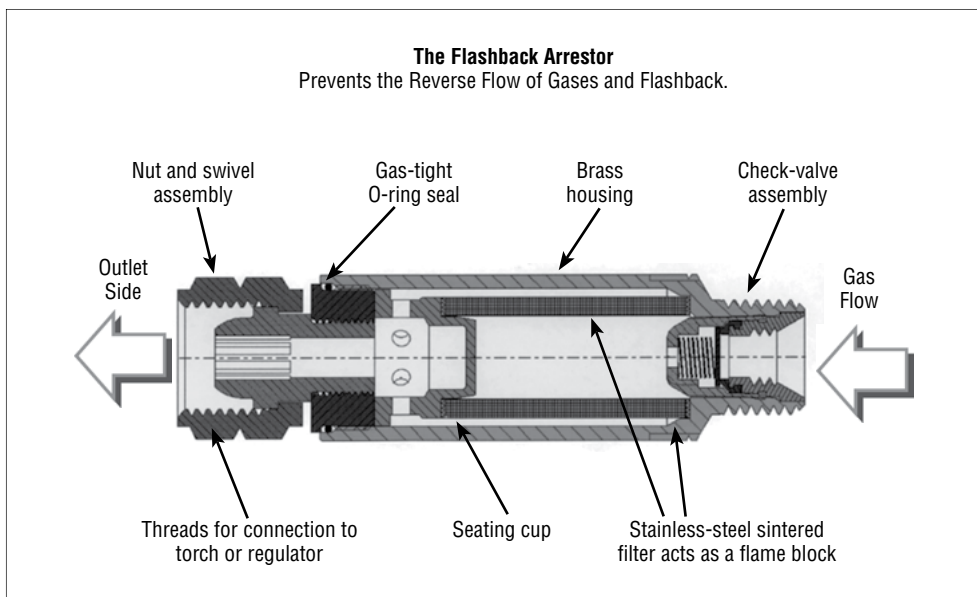
### Reverse Flow Check Valves for Torches & Regulators

#### Check Valve-Pair Pack



Part No. 0690-0012

Part No.	Description
0690-0012	CRO & CRF regulator pair
0690-0035	CRF regulator (fuel)
0690-0034	CRO regulator (oxy)
0690-0011	CTO & CTF torch pair pack
0690-0032	CTO torch (oxy)
0690-0033	CTF torch (fuel)



## Overview for Specifying Regulators

### Sample Model Number

**SR**

Single Stage Model

**Chart 1**

**250**

250 Series

**D**

5-125 PSIG Delivery Range

**Chart 2**

**540**

For Oxygen Service CGA 540 Inlet

**Chart 3**

**0781-0043**

Part Number

Single or two stage model designations as well as those identifying delivery range are common to all regulators unless otherwise noted on individual ordering charts.

**Note:** When ordering be certain to specify delivery range, CGA inlet connections and regulator part number.

1

Regulator Model Identification	
SR	Single stage
HSR	Single stage with flowmeter
VTS	Two stage design
HVTS	Two stage with flowmeter
AR	Air relieving
S	Station
L	Line
HRF	Single stage with internal flowmeter
AF	Argon flowgauge
CF	CO <sub>2</sub> flowgauge
DL	Dome loaded
BSL	Bulk system line
VGS	Gaugeless regulator single stage
DFM	Dual flowmeter
LC	Liquid cylinder
VGT	Victor gaugeless two stage

2

Regulator Delivery Ranges (PSIG)	
A	2-15
B	2-40
C	4-80
D	5-125
E	10-200
F	50-750
G	100-1500
J	200-3000
K	300-4500

Outlet pressure delivery ranges are not minimum or maximum outlet pressure limits. Regulators can be adjusted to zero PSIG outlet pressure and generally, to pressures in excess of those specified. The use of these regulators to control pressures outside of the specified ranges is not recommended.

3

CGA Inlet Connection	Commercial Gases
CGA 200	Acetylene (MC)
CGA 240	Ammonia
CGA 300	Acetylene (commercial)
CGA 320	Carbon dioxide
CGA 326	Nitrous oxide
CGA 346	Air (formerly 1340)
CGA 347	Air
CGA 350	Fuel gas, hydrogen
CGA 500	Medical mixtures
CGA 510	Acetylene (POL)
CGA 520	Acetylene (B)
CGA 540	Oxygen
CGA 555	Propane, butane
CGA 577	Oxygen
CGA 580	Nitrogen, argon, helium
CGA 590	Air (Industrial)
CGA 660	Corrosive
CGA 667	Inert Gas
CGA 680	Nitrogen, argon
CGA 701	Oxygen
CGA 992	British oxygen, inert gas
CGA 996	Manifold oxy, inert gas
CGA 997	Manifold fuel gas
CGA 024	Station oxygen
CGA 025	Station fuel gas
CGA 034	Station inert gas

**Regulators  
SHOULD  
NOT BE USED  
for a shut-off.**



## Manifold Regulators / Pressure Regulators

### Manifold Regulators

#### High Delivery, High Flow - Heavy Duty

- Wide range of flow capabilities.
- Wide range of pressure delivery.
- Single and two stage models available.



Model No. SR700



Model No. VTS 700



Part No.	Gas Service	Model No.	Delivery Range (PSIG)
<b>Extra High Flow, Single Stage</b>			
0780-0797	Air, Oxygen,	SR 700MD-996	5-125
0780-0798	Inert Gas	SR 700ME-996	10-200
<b>Two Stage</b>			
0781-3961	Methane	VTS 452MD-997	5-125
0781-3962	Hydrogen	VTS 452ME-997	10-200
<b>Two Stage, High Flow</b>			
0780-0997	Air, Oxygen	VTS 700MD-996	5-125
0780-0998	Inert Gas	VTS 700ME-996	10-200

#### Delivery Range Key:

**A** 2-15 PSIG, **B** 2-40 PSIG, **D** 5-125 PSIG, **E** 10-200 PSIG,  
**F** 50-750 PSIG, **G** 100-1500 PSIG, **J** 200-3000 PSIG

#### Connections:

1"-11-1/2 NPS(M) Threads on Inlet

1"-11-1/2 NPS(F) Threads on Outlet

### SR 600 Series Regulators

#### Single Stage - High Pressure

- Designed for pressure testing.
- Ideal where 350 or 550 (maximum) delivery pressures are needed.
- Dead-end testing.

**Dimensions:** 7-1/2" W x 6" H x 5" D  
(19.23 cm x 15.38 cm x 12.82 cm).

**Weight:** 5 lbs., 7 oz. (2.70 kg).

#### Design/Construction

- Forged brass body and housing cap.
- Stainless steel diaphragm.
- 2-1/2" gauges brass (6000 lb high pressure, 600 lb. and 1000 lb. low pressure).
- Cartridge seat assembly.
- External self-reseating relief valve.
- CGA 540, 580, 346 have a maximum inlet pressure of 3000 PSIG.
- Single stage design.



Model No. SR 600



Part No.	Gas Service	Model No.	Delivery Range
0781-1601	Inert gas	SR600-350-580	5-350 PSIG
0781-1605	High pressure air	SR600-350-347	5-350 PSIG

Outlet Fitting: 1/4" Swagelok® Brass

Performance	
Maximum inlet	5500 PSIG
Outlet pressure ranges	350 and 550 PSIG
Inlet port	5/8"-20"
Outlet fitting	1/4" Swagelok® brass
Temperature operating range	0-140°F
Materials	
Body	Forged brass
Spring housing cap	Forged brass
Diaphragm	Stainless steel
Nozzle	Brass
Seat	PCTFE
Seat return spring	Stainless steel
Pressure adjusting spring	Music wire
O-Rings	BUNA-N™

**Note:** Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.

## Pressure Regulators

### SR 450 Series

#### Single Stage - Heavy Duty

- Medium to high capacity gas service.
- Wide variety of industrial and commercial applications.
  - Construction.
  - Petro-Chemical.
- Manifold models available.

**Dimensions:** 7 1/4" W x 7" H x 5 1/8" D  
(18.56 cm x 17.92 cm x 13.12 cm)

**Weight:** 5 lbs., 2 oz. (2.5 kg)

#### Design/Construction

- Forged brass body and housing cap.
- 2-1/2" gauges brass.
- Stem type seat mechanism.
- 3-1/4" diaphragm stainless steel.
- Delrin® cap bushing for smooth adjustments.
- External self reseating relief valve not designed to protect downstream apparatus (no relief valve is needed on SR 460 and SR 461 series regulators).
- Sintered inlet filter.

#### Outfits with SR 450 & CSR 450 Regulators

Journeyman®  
Journeyman® "Select™"  
Journeyman® II  
Cutter "Select™"

Performance	
Maximum inlet	3000 PSIG
Delivery range	See chart to right
Materials	
Body	Forged brass
Diaphragm	Stainless steel
Housing cap	Forged brass
Inlet filter	Bronze

**Note:** Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.



Model No. SR 450



Part No.	Gas Service	Model No.	Delivery Range (PSIG)	
0781-0504	Air, Oxygen, Inert Gas	SR450A-580 <sub>2</sub>	2-15	
0781-0515		SR450B-540	2-40	
0781-0527		SR450D-540	5-125	
0781-0531		CSR 450D-540*	5-125	
0781-0528		SR450D-580 <sub>2</sub>	5-125	
0781-0529		SR450D-590 <sub>3</sub>	5-125	
0781-0539		SR450E-540	10-200	
0781-0543		SR450E-580 <sub>2</sub>	10-200	
0781-0564		Methane, Hydrogen	SR600-452D-350	5-125
0781-0576		CO <sub>2</sub>	SR453D-320	2-125
0781-0583	Acetylene	SR460A-300	2-15	
0781-0584		SR460A-510	2-15	
0781-0591		CSR460A-510**	2-15	
0781-0589	L.P. Gas	SR461B-510	2-40	
0781-0595		SR461D-510	5-125	

#### Delivery Range Key:

**A** 2-15 PSIG, **B** 2-40 PSIG, **C** 4-80 PSIG, **D** 5-125 PSIG, **E** 10-200 PSIG

#### Outlet Connections: Cylinder Type

9/16"-18" (M) Unless Noted  
2 = 5/8" - 18" (F) RH; 3 = 9/16"-18" (F) LH

**CSR** \*Green Gauges-Oxygen \*\*Red Gauges-Fuel

**Note:** The shape of the SR 450 series regulator is a registered trademark of Victor® Equipment Company.

Part No.	Description
1429-0056	Steel green-oxygen
1429-0057	Steel red-acetylene
0781-0486	SR450D-540 w/ gauge guards
0781-0487	SR460A-510 w/ gauge guards
0781-0488	SR450D-992-00 w/ gauge guards
0785-0547	SR450D-992-00 w/ gauge guards
0785-0548	SR460A-993-00 w/ gauge guards

#### Gauge Guards



### VTS 450 Series

#### Two Stage - Heavy Duty

- Medium to high capacity gas service.
- Precise and constant outlet pressure.
- Manifold models available.

**Dimensions:** 8" W x 8" H x 7-3/8" D  
(20 cm x 20 cm x 19 cm).

**Weight:** 7 lbs., 6 oz. (3.67 kg).

#### Design/Construction

- Forged brass body and housing cap.
- 2-1/2" gauges brass.
- Stem type seat mechanism.
- Diaphragm - 2", 3-1/4" (Stainless steel).
- Delrin® cap bushing for smooth adjustments.
- External self reseating relief valve **NOT** designed to protect downstream apparatus (No relief valve is needed on VTS 460 and VTS 461 series regulators).
- Sintered inlet filter.

Performance	
Maximum inlet	3000 PSIG
Delivery range	See chart to right
Materials	
Body	Forged brass
Diaphragm	Stainless steel
Housing cap	Forged brass
Inlet filter	Bronze

**Note:** Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.



Model No. VTS 450

Part No.	Gas Service	Model No.	Delivery Range (PSIG)	
0781-3907	Air, Oxygen, Inert Gas	VTS450 A-580 <sub>4</sub>	2-15	
0781-3908		VTS450 B-580 <sub>4</sub>	2-40	
0781-3905		VTS450 D-540	5-125	
0781-3909		VTS450 D-580 <sub>4</sub>	5-125	
0781-3916		VTS450 D-590 <sub>5</sub>	5-125	
0781-4014		VTS450 E-346 <sub>5</sub>	10-200	
0781-3906		VTS450 E-540	10-200	
0781-3959		Methane, Hydrogen	VTS452 B-350	2-40
0781-3963			VTS452 D-350	5-125
0781-3964			VTS452 E-350	10-200
0781-3974	CO <sub>2</sub> & N <sub>2</sub> O	VTS453 D-320 <sub>4</sub>	5-125	
0781-3983	Acetylene	VTS460 A-300	2-15	
0781-3984		VTS460 A-510	2-15	
0781-3993	L.P. Gas	VTS461 B-510	2-40	
0781-3994		VTS461 D-510	5-125	

#### Delivery Range Key:

**A** 2-15 PSIG, **B** 2-40 PSIG, **C** 4-80 PSIG, **D** 5-125 PSIG, **E** 10-200 PSIG

#### Outlet Connections: Cylinder Type

9/16"-18" (M) Unless noted  
4 = 5/8" - 18" (F) RH; 5 = 5/8"-18" (F) LH

**CSR** \*Green Gauges-Oxygen \*\*Red Gauges-Fuel

#### Gauge Guards



Part No.	Description
1429-0056	Steel green-oxygen
1429-0057	Steel red-acetylene



## Pressure Regulators

### SR 350 Series

#### Single Stage - Heavy/Medium Duty

- Medium duty applications.
- Applications ranging from severe to moderate conditions.

**Dimensions:** 7-1/2" W x 6-1/2" H x 4-1/2" D  
(19.23 cm x 16.27 cm x 11.53 cm).

**Weight:** 3 lbs., 8 oz. (1.74 kg).

#### Design/Specifications

- Forged brass body and housing cap.
- 2-1/2" gauges brass.
- Stem type seat mechanism.
- 2-3/4" diaphragm.
- Delrin® cap bushing for smooth adjustments.
- External self reseating relief valve not designed to protect downstream apparatus (no relief valve is needed on SR 360 regulators).
- Sintered inlet filter.

Performance	
Maximum inlet	3000 PSIG
Delivery range	See chart* to right
Materials	
Body	Forged brass
Diaphragm	Fabric reinforced neoprene
Housing cap	Forged brass
Inlet filter	Bronze

**Note:** Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.



Model No. SR 350

UL Listed  
Conforms to  
CGA E-4

Part No.	Gas Service	Model No.	Delivery Range (PSIG)
0781-2341	Oxygen	SR350 D-540 <sub>2</sub>	5-125
0781-2274		CSR350 D-540 <sub>2</sub> *	5-125
0781-2408	Acetylene	CSR360 A-510 <sub>3</sub> **	2-15
0781-2400		SR360 A-300 <sub>3</sub>	2-15
0781-2404		CSR360 A-300 <sub>3</sub> **	2-15

#### Delivery Range Key:

**A** 2-15 PSIG, **D** 5-125 PSIG

#### Outlet Connections: Cylinder Type

2 = 9/16" - 18" (M) RH; 3 = 9/16" - 18" (M) LH

**CSR:** \*Green gauges-oxygen \*\*Red gauges-fuel

**Note:** The shape of the SR 450 series regulator is a registered trademark of Victor® Equipment Company.

#### Gauge Guards



Part No.	Description
1429-0058	Steel green-oxygen
1429-0059	Steel red-acetylene

### SR 250 Series

#### Single Stage - Medium Duty

- Medium duty capacity.
- Ideal for welding and cutting applications.
- Compact single stage construction.

**Dimensions:** 6-3/8" W x 5-1/8" H x 4-1/4" D  
(16.5 cm x 13 cm x 11 cm).

**Weight:** 2 lbs., 15 oz. (1.4 kg).

#### Design/Construction

- Forged brass body and housing cap.
- 2" gauges.
- Stem type seat mechanism.
- 1-3/4" diaphragm.
- Delrin® cap bushing for smooth adjustments.
- External self reseating relief valve not designed to protect downstream apparatus (No relief valves needed on SR 260 and SR 261 series regulators).
- Sintered inlet filter.

Performance	
Maximum inlet	3000 PSIG
Delivery range	See Chart* to right
Materials	
Body	Forged brass
Diaphragm	Fabric reinforced neoprene
Housing cap	Forged brass
Inlet filter	Bronze

**Note:** Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.



Model No. SR 250

UL Listed  
Conforms to  
CGA E-4

Part No.	Gas Service	Model No.	Delivery (PSIG)	
0781-0003	Air, Oxygen, Inert Gas	SR 250A-540	2-15	
0781-0004		SR 250A-580 <sub>4</sub>	2-15	
0781-0016		SR 250B-580 <sub>4</sub>	2-40	
0781-0002		SR 250C-346 <sub>5</sub>	4-80	
0781-0027		SR 250C-540	4-80	
0781-0033		CSR-250C-540	4-80	
0781-0028		SR 250C-580 <sub>4</sub>	4-80	
0781-0029		SR 250C-590 <sub>5</sub>	4-80	
0781-0010		SR 250D-346 <sub>5</sub>	5-125	
0781-0043		SR 250D-540	5-125	
0781-0044		SR 250D-580 <sub>4</sub>	5-125	
0781-0059		Methane	SR 252B-350	2-40
0781-0065		Hydrogen	SR 252C-350	4-80
0781-0075		CO <sub>2</sub>	SR 253B-320 <sub>4</sub>	2-40
0781-0077	SR 253C-320 <sub>4</sub>		4-80	
0781-0079	Acetylene	SR 253D-320 <sub>4</sub>	5-125	
0781-0085		SR 260A-300	2-15	
0781-0087		SR 260A-510	2-15	
0781-0090	L.P. Gas	SR 260A-510 WQ	2-15	
0781-0098		SR 261C-510	4-80	
0781-0104		SR 261D-510	5-125	

#### Delivery Range Key:

**A** 2-15 PSIG **B** 2-40 PSIG **C** 4-80 PSIG **D** 5-125 PSIG

#### Outlet Connections: Cylinder Type

9/16" - 18 (M), 4 = 5/8" - 18 (F) RH, 5 = 5/8" - 18 (F) LH

**WQ** (Fits Linde WQ type acetylene cylinders)

#### Gauge Guards



Part No.	Description
1429-0062	Steel green-oxygen
1429-0063	Steel red-acetylene

## Pressure Regulators

### VTS 250 Series

#### Two Stage - Medium Duty

- Medium duty gas service.
- Precise and constant delivery pressure.
- Models available for most gas services.
- Ideal for some laboratory applications.

**Dimensions:** 6-1/2" W x 5-5/8" H x 6-1/8" D  
(16.5 cm x 14.0 cm x 15.0 cm).

**Weight:** 4 lbs., 10 oz. (2.61 kg).

#### Design/Construction

- Forged brass body and housing cap.
- 2" gauges.
- Stem type seat mechanism.
- Diaphragm 1-1/8" and 1-3/4".
- Delrin® cap bushing for smooth adjustments
- External self reseating relief valve not designed to protect downstream apparatus (No relief valve is needed on VTS 260 and VTS 261 series regulators).
- Sintered inlet filter.

Performance	
Maximum inlet	3000 PSIG
Delivery range	See chart* to right
Materials	
Body	Forged brass
Diaphragm	Fabric reinforced Neoprene
Housing cap	Forged brass
Inlet filter	Bronze

**Note:** Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.



Model No VTS 250

UL Listed  
Conforms to  
CGA E-4

Part No.	Gas Service	Model No.	Delivery Range (PSIG)
0781-3513	Inert gas	VTS250D-580 <sub>4</sub>	5-125
0781-3573	CO <sub>2</sub>	VTS253B-320 <sub>4</sub>	2-15

#### Delivery Range Key:

**A** 2-15 PSIG **B** 2-40 PSIG **C** 4-80 PSIG **D** 5-125 PSIG

#### Outlet Connections: Cylinder Type

9/16" - 18 (M), 4 = 5/8" - 18 (F) RH, 5 = 5/8" - 18 (F) LH

#### Gauge Guards



Part No.	Description
1429-0062	Steel green-oxygen
1429-0063	Steel red-acetylene

### SR 5 & 6 Series

#### Single Stage - Light Duty

- Light duty capacity.
- Lightweight, compact.
- Models available for various gas services.

**Dimensions:** 4-3/4" W x 4-1/4" H x 3-1/4" D  
(12 cm x 11 cm x 8 cm)

**Weight:** 1 lb., 12 oz. (.87 kg).

#### Design/Construction

- Machined brass body and cap.
- 1-1/2" gauges.
- Stem type seat assembly.
- 1-1/4" diaphragm.
- Internal self reseating diaphragm relief valve (No relief valve is needed on SR 6).
- Sintered inlet filter.

Performance	
Maximum inlet	3000 PSIG
Delivery range	See chart* to right
Materials	
Body	Forged brass
Diaphragm	Fabric reinforced neoprene
Housing cap	Forged brass
Inlet filter	Bronze

**Note:** Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.



Model No. SR5

UL Listed  
Conforms to  
CGA E-4

Part No.	Gas Service	Model No.	Delivery Range (PSIG)
0780-2520	Oxygen	SR5-60-540	4-60
0780-2544	CO <sub>2</sub>	SR5B-320 <sub>6</sub>	2-40
0780-2537	Inert Gas	SR5B-580 <sub>6</sub>	2-40
0780-2524	Acetylene	SR6-15-200	2-15
0780-2522		SR6-15-300	2-15
0780-2521		SR6-15-510	2-15
0780-2523		SR6-15-520	2-15

#### Delivery Range Key:

**15** 2-15 PSIG (A Range) **40** 4-40 PSIG (B Range)

**60** 4-60 PSIG (C Range)

**Outlet Connections:** 9/16" - 18 (M), 6 = 5/8" - 18 (F)





## Pressure Regulators

### SR 150R Rear Entry Regulators

#### Single Stage - Light Duty

- Light duty flow rates.
- Rear entry inlet, ideal for plant maintenance.
- Sintered inlet filter.

Materials	
Body	Machined brass
Diaphragm	Neoprene
Housing cap	Machined brass
Inlet filter	Bronze



UL Listed  
Conforms to  
CGA E-4

Model No. SR 150R

Part No.	Gas Service	Model No.	Delivery Range (PSIG)
0781-2545	Oxygen, CO <sub>2</sub> , Inert Gas	SR150CF-540	4-80
0781-2546	Acetylene	SR160AR-200	2-15

**Delivery Range Key:** AR 2-15 PSIG CR 4-80 PSIG

**Outlet Connections:** 9/16" - 18 (M)

### SR 4 Series High Pressure Piston Regulators

#### Single Stage

- High pressure.
- Ideally suited for pressure vessel testing.
- Dead-end testing.
- Delivery pressures up to 4500 PSIG on some models.
- May be panel mounted.

**Dimensions:** 6" W x 6-1/2" H x 6-1/4" D  
(15 cm x 16 cm x 15.5 cm)

**Weight:** 4 lbs. (1.8 kg)



UL Listed  
Conforms to  
CGA E-4

Model No. SR 4

#### Design/Construction

- Piston type actuation.
- Machined body and cap.
- 2-1/2" gauges brass.
- Cartridge type seat assembly with PCTFE seat.
- Delrin® cap bushing for smooth adjustments.
- External adjustable relief valves on F and G range models.
- Hydrogen models have ventable relief valves.
- Sintered inlet filter.

#### Panel Mounting Details

- All SR 4 series regulator models may be panel mounted. (1-3/4" hole required in panel for mounting) For a flush panel mount installation order one (1) panel mount nut 1409-0093. For an adjustable panel mount installation order two (2) panel mount nuts 1409-0093.

Performance	
Maximum inlet	7500 PSIG with CGA 677 6000 PSIG without Inlet Fitting 5500 PSIG with CGA 701, 680, 347 4000 PSIG with CGA 577 3000 PSIG with CGA 540, 580, 346, 350
Materials	
Body	Machined brass
Housing cap	Machined brass
Inlet filter	Bronze

**Note:** Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.

Part No.	Gas Service	Model No.	Delivery Range (PSIG)
0781-1405	Oxygen	SR 4F-540	50-750
0781-1425		SR 4G-540	100-1500
0781-1445		SR 4J-540	200-3000
0781-1408	Inert Gas	SR 4F-580	50-750
0781-1410		SR 4F-680	50-750
0781-1428		SR 4G-580	100-1500
0781-1430		SR 4G-680	100-1500
0781-1448		SR 4J-580	200-3000
0781-1450		SR 4J-680	200-3000
0781-1453		SR 4J-677	200-3000
0781-1473		SR 4K-677	300-4500
0781-1463	Air	SR 4K-347	300-4500
0781-1404	Methane/ Hydrogen	SR 4F-350	50-750
0781-1401	Carbon Dioxide	SR 4F-320	50-750

#### Delivery Range Key:

F 50-750 PSIG G 100-1500 PSIG J 200-3000 PSIG K 300-4500 PSIG

**Inlet Fitting:** \* - 1/4" NPT (F)

**Outlet Fitting:** 1/4" Swagelok® type stainless steel

## HRF 2400 Regulator/Flowmeter

### Single Stage

- Regulator / flowmeter combination in one compact unit.
- MIG / TIG applications.
- Ideal for all applications where dependability is needed.
- Calibrated tube at 25 PSIG (Not on HRF 2480).

**Dimensions:** 5-5/8" W x 8-1/4" H x 3" D  
(14.29 cm x 20.93 cm x 7.62 cm).

**Weight:** 2 lbs., 8 oz. (1.24 kg).

### Design/Construction

- Machined brass body and housing cap.
- Back pressure compensated.
- Sintered inlet filter.
- Internal self reseating relief (not designed to protect downstream apparatus).



Model No. HRF2400



Performance	
Maximum inlet	3000 PSIG
Outlet pressure preset	
HRF 2425	25 PSIG
HRF 2480	80 PSIG
Flow capacity	See chart
Materials	
Body	Brass
Diaphragm	Fabric neoprene
Housing cap	Brass
Inlet filter	Sinter bronze
Flowtube	Lexan
Flowtube cover	Lexan

Part No.	Gas Service	Model No.	Flowmeter Range (SCFH)	CGA Inlet Connection
0781-2731	Argon Argon/CO <sub>2</sub> Mix Helium	HRF 2425 Preset @ 25 PSIG	10-50 (Argon) 20-150 (Helium)	580
0781-2728	Carbon Dioxide CO <sub>2</sub> Mixes	HRF 2480 Preset @ 80 PSIG	10-38 (CO <sub>2</sub> ) 7.5-37.5 (Argon)	320

**Outlet Connection:** 5/8" - 18 (F) RH, CGA 032.

## AF 250/CF 253 Flowgauge Regulator

- Ideal for MIG / TIG applications where a flowmeter is not necessary or impractical.
- Designed for small to medium diameter MIG applications (.025 wire to .045 wire).

**Dimensions:** 6-3/8" W x 5-1/8" H x 4-1/4" D  
(16.19 cm x 13.01 cm x 10.79 cm).

**Weight:** 2 lbs., 15 oz. (1.46 kg).

### Design/Construction

- Forged brass body and housing cap.
- 2" gauges.
- Stem type seat mechanism.
- 1-3/4" diaphragm.
- Delrin® cap bushing for smooth adjustments.
- Internal self reseating relief valve not designed to protect downstream apparatus.
- Sintered inlet filter.



Model No. AF 250



Part No.	Gas Service	Model No.	Flow Range	CGA Inlet Connection
0781-0350	Argon	AF 250-580*	10-40 SCFH	580
0781-0351	CO <sub>2</sub>	CF 253-320*	7-35 SCFH	320

**Outlet Connection:** 5/8" - 18 (F) RH, CGA 032.

**WARNING:** High gas withdrawal rates may cause regulator freeze up and will require cylinder manifolding. Consult your gas supplier.

**\*Note:** A regulator equipped with a flow gauge is not accurate when a back pressure in excess of 2 PSIG exists at the outlet. Back pressure is caused by a restriction in the apparatus downstream of the flowgauge. Metering valves, kinked hoses or even very long hoses are restrictions that can cause back pressure. In applications where back pressure in excess of 2 PSIG can be expected, a regulator equipped with a flowmeter should be used.



## Regulators / Flowmeters

### Flowmeter DFM Dual Flow Regulator

- Designed to monitor two (2) separate processes or gas flows.
- Ideal for applications where shielding gas and back purge requirements are needed.
- Designed to offer convenience for the maintenance and the fabrication industries.

**Dimensions:** DFM - 5-1/2" W x 6-1/2" H x 5" D  
(14.10 cm x 16.66 cm x 12.82 cm)

**Weight:** DFM - 2 lbs., 9 oz- (1.27 kg)

**Notes:**

- Flowmeter shows actual flow.
- If flow is shut off or restricted downstream of the regulator, the flow gauge will show indicated flow even if there is none.



Model No. DFM 150

Materials	
Body	Brass
Seat	Teflon
Spring	Music wire
Inlet filter	Sintered bronze
Piston	Brass
Ball (flowmeter version)	Aluminum
Cover tube	Lexan

Part No.	Gas Service	Model No.	CGA Inlet Conn.	Max Inlet (PSIG)	HP Gauge (PSIG)	Flowmeter Range (SCFH)	Replacement Tube & Boat
0781-1153	Argon Helium	DFM 150-580	580	3000	0-4000	5-50 SCFH Argon 20-150 Helium	1015-0057

Outlet Connection: 5/8"-18 RH (F), CGA 032

### SR 310, SR 311 & 312 High Flow CO<sub>2</sub> Flowmeter / Flowgauge

- Designed for CO<sub>2</sub> application (non-siphoned tube cylinders).
- High flow CO<sub>2</sub> applications (SR 310 100 PSIG) (SR 311/312 100 SCFH) with adequate supply or source.
- Designed for core wire applications.

**Dimensions:** 8-3/8" W x 7-1/4" H x 2-1/2" D  
(8.65 cm x 18.58 cm x 6.4 cm).

**Weight:** 2 lbs., 15 oz. (1.46 kg).

**Design/Construction**

- Machined body and housing cap.
- 2" gauge.
- Stem type seat mechanism.
- 1-3/4" diaphragm.
- Self reseating relief valve (Not designed to protect downstream apparatus).
- Sintered inlet filter.

Performance	
Maximum inlet	1500 PSIG
Delivery range	100 SCFH
Materials	
Body	Aluminum
Diaphragm	Fabric reinforced neoprene
Housing cap	Aluminum
Inlet filter	Bronze

Part No.	Model No.	Flow Range	CGA Inlet Connection
0781-0355	SR 310 Adjustable	10 - 150 PSIG	320
0781-0353 (Preset @ 80 PSIG) Flowmeter	SR 311	25 - 100 SCFH	320
0781-0354	SR 312 Flow Gauge	0 - 100 SCFH	320

Outlet Connection: 5/8" - 18 RH (F)



Model No. SR 311



Model No. SR 310



**NOTE:** High gas withdrawal rates may cause regulator freeze up and will require cylinder manifold. Consult your gas supplier.

A regulator equipped with a flow gauge is not accurate when a back pressure in excess of 2 PSIG exists at the outlet. Back pressure is caused by a restriction in the apparatus downstream of the flowgauge. Metering valves, kinked hoses or even very long hoses are restrictions that can cause back pressure. In applications where back pressure in excess of 2 PSIG can be expected, a regulator equipped with a flowmeter should be used.

## Flowmeter

- Gas flow measurement in SCFH.
- MIG / TIG applications.
- Flowtube and outer tube are made of impact resistant Lexan for severe applications.
- Pressures compensate for low surge requirement.

**Note:** All Victor® flowmeters are back pressure compensated to ensure accurate readings at all times, even if line restrictions are present. All flowmeters are calibrated to operate at 25 PSIG inlet pressure to minimize surge, except the FM 200 which is calibrated to operate at 80 PSIG.



Flowmeter

### Units with Two Gas Calibration

Part No.	Model No.	Flow Range	Inlet Fitting	Outlet Fitting	Flowtube	Inlet Pressure
1000-0256	FM145	4-18 SCFH argon 10-50 SCFH helium	5/8-18 RH M	5/8-18 RH F	1015-0063	25 PSIG
1000-0261	FM137	15-65 SCFH argon 40-200 SCFH helium	9/16-18 RH F	5/8-18 RH F	1015-0064	25 PSIG
1000-0262	FM147	15-70 SCFH argon 40-200 SCFH helium	5/8-18 RH M	5/8-18 RH F	1015-0064	25 PSIG
1000-0263	FM157	15-65 SCFH argon 40-200 SCFH helium	1/4 NPT M	5/8-18 RH F	1015-0064	25 PSIG

### Units with Three Gas Calibration

Part No.	Model No.	Flow Range	Inlet Fitting	Outlet Fitting	Flowtube	Inlet Pressure
1000-0258	FM370	5-40 SCFH CO <sub>2</sub> 5-50 SCFH argon 20-150 SCFH helium	9/16-18 RH F	5/8-18 RH F	1015-0057	25 PSIG
1000-0182	FM372	5-40 SCFH CO <sub>2</sub> 5-50 SCFH argon 20-150 SCFH helium	1/4 NPT M	5/8-18 RH F	1015-0057	25 PSIG

**Note:** Not designed for cylinder use

## L 700 High Volume Line Regulators

### Heavy Duty

- Designed for Gas Distribution System (pipeline).
- Available in either 1/2" NPT(F) or 3/4" NPT(F) inlet.
- Inlet pressure up to 500 PSIG.

### Design/Construction

- Forged brass body and housing cap.
- 2-1/2" brass gauge.
- Stem type seat mechanism.
- 3-1/4" diaphragm.
- Delrin® cap bushing for smooth adjustments.



Model No. L 700

Listed  
Conforms to  
**CGA E-4**

Part No.	Gas Service	Model No.	Delivery Range (PSIG)	Inlet & Outlet Ports
0780-1209	Air, Oxygen, Inert Gas, CO <sub>2</sub> , N <sub>2</sub> O	L 700D-750	5-125	3/4" - NPT(F)
0780-1201	Acetylene	L 710A-750	2-15	3/4" - NPT(F)



## Regulators

### S 350 Station Regulators Medium Duty/Heavy Duty

- Medium to heavy duty flow requirement.
- Gas distribution systems (pipeline).
- Wide range of delivery pressures available.
- Matched to the CGA inlet connection for specific gas service and valve.

#### Dimensions:

- 5-1/2" W x 6-1/2" H x 5" D (side inlet)  
(13.97 cm x 16.51 cm x 12.70 cm)
- 3" W x 6-1/2" H x 7" D (rear inlet)  
(7.62 cm x 16.51 cm x 17.78 cm)

**Weight:** 3 lbs., 5 oz. (1.64 kg)

#### Design/Construction

- Forged body and housing cap.
- 2-1/2" gauges brass.
- Stem type seat mechanism.
- 2-3/4" diaphragm

**WARNING:** The S 350 series regulators have a maximum inlet pressure of 200 PSIG.

**Note:** Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.



Model No. CSR-350



Part No.	Gas Service	Model No.	Delivery Range (PSIG)
0781-2493	Oxygen	Side Inlet S350D-024	5-125
0781-2458		Rear Inlet S350BR-024	2-40
0781-2459		S350CR-024	4-80
0781-2509		CS350DR-024*	5-125
0781-2500	Acetylene	Side Inlet S360A-025	2-15
0781-2505	Hydrogen	S361C-025	4-80
0781-2506	L.P. Gas	S361D-025	5-125
0781-2472	Acetylene	Rear Inlet S360AR-025	2-15
0781-2486	L.P. Gas	S361DR-025	5-125

#### Connections Key:

**024**-CGA Inlet Connection: 7/8"-14 RH(F) Outlet Connection: "B" 9/16"-18 RH(M)

**025**-CGA Inlet Connection: 7/8"-14 LH(F) Outlet Connection: "B" 9/16"-18 LH(M)

#### Delivery Range Key:

**A** 2-15 PSIG **B** 2-40 PSIG **C** 4-80 PSIG **D** 5-125 PSIG

**CSR** \* Green Gauges-Oxygen

**Note:** Not designed for cylinder use

### L 350 Line Regulators Medium Duty - Heavy Duty

- Designed for gas distribution systems (pipeline).
- Inlet port 1/4" NPT (F).
- Wide range of gas services.
- Maximum inlet 500 PSIG.
- Medium to heavy duty capacity.

**WARNING:** Maximum inlet pressure 500 PSIG.

Dimensions: 3" W x 6 1/2" H x 5" D  
(7.68 cm x 16.68 cm x 12.50 cm).

Weight: 3 lbs. (1.49 kg).

#### Design/Construction

- Forged body and housing cap.
- 2-1/4" gauge brass.
- Stem type seat mechanism.
- 2-3/4" diaphragm.
- Delrin® cap bushing for smooth adjustments.



Model No. L 350



Performance	
Maximum inlet	300 PSIG
Delivery ranges	See chart to right

Materials	
Body	Forged brass
Diaphragm	Fabric reinforced neoprene
Housing cap	Forged brass

Part No.	Gas Service	Model No.	Delivery Range (PSIG)	Outlet Gauge (PSIG)	Inlet & Outlet Ports
0781-2455	Air, Oxygen Inert Gas CO <sub>2</sub> , N <sub>2</sub> O	L 350D-250	5-125	0-200	1/4" NPT (F)

**Delivery Range Key:** **A** 2-15 PSIG **C** 4-80 PSIG **D** 5-125 PSIG

**Note:** Not designed for Cylinder Use. Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.

### S 250 Station Regulators Light Duty

- Designed for gas distribution system (pipeline).
- Available with CGA inlet 024, 025, inlet connections.
- Wide range of gas service applications.
- Maximum inlet pressure 200 PSIG.
- Pipeline flowgauge for Inert gases, and CO<sub>2</sub> applications.

**Note:** Not designed for cylinder use



Model No. SFG 250



Part No.	Gas Service	Model No.	Delivery Range (PSIG)
0781-1254	Oxygen	S 250C-024	4-80
0781-1255		S 250D-024 (w/ flowmeter)	5-125
0781-1256	Acetylene	S 260A-025	2-15

#### Connections Key:

024-CGA Inlet Connection: 7/8"-14 RH(F)  
Outlet Connection: "B" 9/16"-18 RH(M)

025-CGA Inlet Connection: 7/8"-14 LH(F)  
Outlet Connection: "B" 9/16"-18 LH(M)

#### Delivery Range Key:

**A** 2-15 PSIG **C** 4-80 PSIG **D** 5-125 PSIG

## 450 Series Pressure Regulators Single Stage - Extra Heavy Duty

- High flow rates.
- Single stage design.
- Forged brass body & housing cap.
- Stem type seat mechanism.
- Stainless steel diaphragm.
- Available in CGA 300, 510 & 580 inlet connections.
- Maximum inlet pressure: 3000 PSIG/204 BAR.
- Delivery pressures up to 125 PSIG.
- 9/16"-18" outlet connection except when noted.
- Internal relief valve.
- Two year warranty.

**Dimensions:** 7-1/4"W x 7"H x 5-1/8"D

**Weight:** 5lb. 2oz.

**Construction:** 2-1/2" gauges

**CUTSKILL®**



Model No. 450 Series

Part No.	Model No.
0781-4144	RC450-125-540
0781-4145	RC450-125-992
0781-4146	RC450-15-510
0781-4147	RC450-15-993
0781-4148	RC450-15-300
0781-4158	RC450-125-580

**Outlet Connection:** 9/16" - 18"

## Pressure Regulators 350 Series & 250 Series Single Stage

- Single stage design.
- Forged brass body & housing cap.
- Stem type seat mechanism.
- Neoprene diaphragm.
- Maximum inlet pressure: 3000 PSIG/204 BAR.
- Delivery pressures up to 125 PSIG.
- Available in CGA 300, 510, 510WQ & inlet connections.
- 9/16"-18" outlet connection except when noted.
- Internal relief valve.
- Two year warranty

**CUTSKILL®**

**Dimensions:**

**350 Series** - 7-1/2"W x 6-1/2"H x 4-1/4"D

**250 Series** - 6-3/8"W x 5-1/8"H x 4-1/4"D

**Weight:**

**350 Series** - 3 lbs., 8 oz.

**250 Series** - 2 lbs., 15 oz.

**Construction:**

**350 Series** - 2.5" gauges

**250 Series** - 2" gauges

### 250 Series - Medium Duty



Model No. 250

Part No.	Model No.	Delivery Pressure (PSIG)
0387-2001	RC250-80-540-CS	4-80
0387-2100	RC250-15-510-CS	2-15
0387-2101	RC250-15-300-CS	2-15

**Outlet Connection:** 9/16" - 18"

### 350 Series - Heavy Duty



Model No. 350

Part No.	Model No.	Delivery Pressure (PSIG)
0387-2300	RC350-125-540-CS	5-125
0387-2302	RC350-80-540-CS	4-80
0387-2400	RC350-15-510-CS	2-15
0387-2401	RC350-15-300-CS	2-15

**Outlet Connection:** 9/16" - 18"



## Regulators / Flowmeters

### FirePower® Regulators

- For use with all fuel gases (natural gas 2 PSI and above). Proper tip required.
- Single stage design.
- Forged brass body & housing cap is finished in a black powder coat.
- Stem type seat mechanism.
- Neoprene diaphragm.
- Internal relief.
- Maximum delivery pressure: 125 PSIG/34 BAR.
- One year warranty.



Model No. RF-350

### 350 Heavy-Duty

Part No.	Model No.
0781-9171	RF350-125-540
0781-9172	RF350-15-510
0781-9802	RF350-15-300



### 250 Medium-Duty

Part No.	Model No.
0781-9112	RF250-15-510
0781-9111	RF250-80-540
0781-9800	RF250-15-300
0781-9851	RF250-200-580
0781-9115	RF250-40-510LP
0781-9116	RF250-125-540
0781-9850	RF250-125-580

### TPR250 Purging Regulators

**Dimensions:** 6-3/8" W x 5-1/8" H x 4-1/4" D  
(16.5 cm x 13 cm x 11 cm)

**Weight:** 2 lbs., 15 oz. (1.4 kg)

**Construction:** 2" gauges



Model No. TPR250

Part No.	Model No./ Description	Delivery Pressure (PSIG)
0781-9133	TPR250-125-580	5-125
0781-9134	TPR250-250-580	10-250
0781-9135	TPR250-500-580	10-500

**Outlet Connection:** 1/4"-37" flare.

### HRF 1400 Medalist™ Flowmeter Single Stage

- Single stage piston design.
- Argon, Argon/CO<sub>2</sub> mix & CO<sub>2</sub> models.
- Maximum inlet pressure: 3000 PSIG/204 BAR.
- 25 PSIG/1.7 BAR or 80 PSIG/5.4 BAR preset pressure.
- Up to 50 CFH/24 LPM for Argon and up to 38 CFH/18 LPM for CO<sub>2</sub> delivery.
- Attractive print box design.
- Available in CGA 320 & 580 inlet connections.
- Option MIG kit available with 10' hose.
- Two year warranty.

#### Design/Construction

- Machined brass body
- Teflon seat



Model No. HRF1400

Part No.	Model No.	Description	Flow Range
0781-2723	HRF1425-580	Boxed	50 CFH Argon
0781-2743	HRF1425-580	w/ hose	50 CFH Argon

**Outlet Connection:** 5/8"-18 (F) RH

- 5/8"-18 RH(F) outlet connection except when noted
- 1-1/2"/38 cm PSIG/KpA gauges except when noted



### AF & CF 150 Medalist™ Flowgauge Regulators Single Stage

- Forged brass body & housing cap.
- Stem type seat mechanism.
- Argon, Argon/CO<sub>2</sub> Mix & CO<sub>2</sub> models.
- Maximum inlet pressure: 3000 PSIG/204 BAR.
- Up to 50 CFH/24 LPM for Argon and up to 38 CFH/18 LPM for CO<sub>2</sub>.
- Attractive print box design.
- Available in CGA 320 & 580 inlet connections.
- 5/8"-18" RH(F) outlet connection except when noted.
- Optional MIG kit available with 10' hose.
- Two year warranty.



Model No. AF150

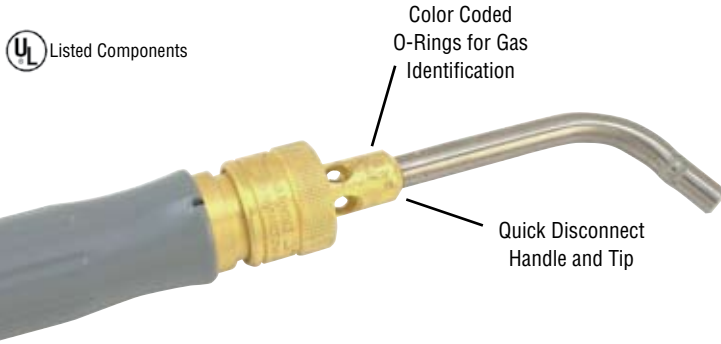
Part No.	Model No.	Flow Range
0781-1100	AF150-580	50 CFH Argon
0781-1103	AF150-580* w/10', 3m hose & fittings	50 CFH Argon
0387-0245	AF150-580*	50 CFH Argon
0781-1120	CF153-320	38 CFH CO <sub>2</sub>
0781-1123	CF153-320* w/10', 3m hose & fittings	38 CFH CO <sub>2</sub>

**Outlet Connection:** 5/8"-18 (F) RH

\*Clamshell pkg.



## Extreme® Standard Torch Kits



Patented Swirl Combustion Technology

**X-3B Kit**



Flexible kit brazes light/medium gauge steel.

- AR-B (CGA 520) regulator.
- G-4 handle.
- AH-12 hose.
- A-3 tip.
- A-11 tip.
- Soft solders to 3" (75 mm).
- Silver brazes to 1-5/8" (40 mm).
- "B" tank connection.
- Instruction manual.

**Part No. 0386-0335**

**X-4B Kit**



Higher capacity kit brazes medium/heavy gauge steel.

- AR-B (CGA 520) regulator.
- G-4 handle.
- AH-12 hose.
- A-5 tip.
- A-14 tip.
- Soft solders to 3-1/2" (90 mm).
- Silver brazes to 2" (50 mm).
- "B" tank connection.
- Instruction manual.

**Part No. 0386-0336**

**X-5B Kit**



Flexible lighter-duty kit.

- AR-B (CGA 520) regulator.
- G-4 handle.
- AH-12 hose.
- A-5 tip.
- AH-12 tip.
- Soft solders to 1-1/2" (40 mm).
- Silver brazes to 3/4" (20 mm).
- "B" tank connection.
- Instruction manual.

**Part No. 0386-0338**

**X-5MC Kit**



Flexible lighter-duty kit.

- AR-MC (CGA 200) regulator.
- G-4 handle.
- AH-12 Hose
- A-5 tip.
- Soft solders to 1-1/2" (40 mm).
- Silver brazes to 3/4" (20 mm).
- "MC" Tank connection.
- Instruction manual.

**Part No. 0386-0384**

**X-6MC Kit**



All-purpose kit for work using "MC" tank.

- AR-MC (CGA 200) regulator.
- G-4 handle.
- AH-12 hose.
- A-3 tip.
- A-8 tip.
- Soft solders to 2" (50 mm).
- Silver brazes to 1" (30 mm).
- "MC" tank connection.
- Instruction manual.

**Part No. 0386-0339**

**MSKA-1 Kit**



Features quieter operation.

- AR-B (CGA 520) regulator.
- G-4 handle.
- AH-12 hose.
- MSA-8 tip.
- Soft solders to 3" (75 mm).
- Silver brazes to 3/4" (20 mm).
- "B" tank connection.
- Instruction manual.

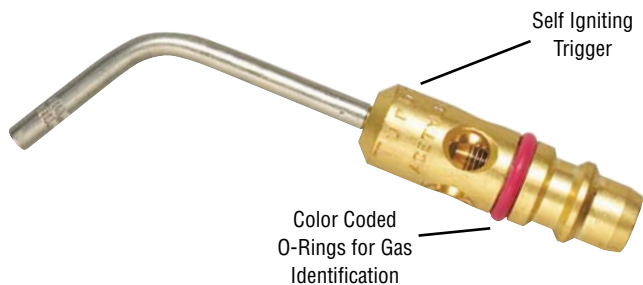
**Part No. 0386-0366**



## Air Acetylene Tips

### Extreme® Standard Torch Tips

- Use with large tank only. Use with G-4 Handle (0386-0308).



Patented Swirl Combustion Technology

Listed Components



Part No. 0386-0100



Part No. 0386-0101



Part No. 0386-0102



Part No. 0386-0103



Part No. 0386-0104



Part No. 0386-0105



Part No. 0386-0106



Part No. 0386-0365

Tip No.	Tip Size		Gas Flow		Copper Tubing Size Capacity				Replacement Orifice Model
	In.	mm.	@14 PSI FT <sup>3</sup> /hr.	(0.9 Bar) M <sup>3</sup> /hr.	Soft Solder		Silver Solder		
					In.	mm.	In.	mm.	
A-2	1/8	4.8	2.0	.17	1/8-1/2	3-15	1/8-1/4	3-10	OR-A2
A-3	3/16	6.4	3.6	.31	1/4-1	10-25	1/8-1/2	3-12	OR-A3
A-5	1/4	7.9	5.7	.48	3/4-1 1/2	20-40	1/4-3/4	10-20	OR-A5
A-8	5/16	9.5	8.3	.71	1-2	25-50	1/2-1	15-25	OR-A8
A-11	7/16	11.1	11.0	.94	1 1/2 - 3	40-75	7/8-1-5/8	20-40	OR-A11
A-14	1/2	12.7	14.5	1.23	2-3-1/2	50-90	1-2	30-50	OR-A14
A-32*	3/4	19.0	33.2	2.82	4-6	100-150	1 1/2-4	40-100	OR-A32
MSA-8	3/8	9.5	5.8	.50	3/4-3	20-75	1/4-3/4	10-20	OR-A5

Extreme® Self Lighting / Sof-Flame™ Kits - Air Acetylene

Extreme® Self Lighting Torch Kits  
With Rear Valve Handle

PL-8ADLX-MC Kit



- AR-MC (CGA-200) regulator.
- G-4 handle.
- PL-8A tip.
- Soft solders to 2" (50 mm).
- Silver solders to 1" (30 mm).
- "MC" tank connections.
- Instruction manual.
- AH-12 hose.

Part No. 0386-0834

PL-8ADLX-B Kit (0386-0835)

(Not Shown) "B" Tank Connection

PL-12ADLX-B



- AR-B (CGA-520) regulator.
- G-4 handle.
- PL-12A tip.
- Soft solders to 3-1/2" (90 mm).
- Silver solders to 2" (50 mm).
- "B" tank connections.
- Instruction manual.
- AH-12 hose.

Part No. 0386-0836

Sof-Flame™ Torch Kit

Sof-Flame™ Tips Improved design for excellent flame characteristics!

- Replaces old style "W" series
- Solid Brass construction
- Fits WA-400 torch handle

WSF-4 Kit



- AR-B (CGA 520) regulator.
- WA-400 handle.
- AH-12 hose.
- S-4 tip.
- Soft solders to 1" (25 mm).
- "B" tank connection.
- Instruction manual.

Part No. 0386-0090

WA-400 Handle



- "A" Size 3/8" 24 LH hose threads, Interchangeable with Prest-O-Lite®, Uniweld® and GOSS® equipment.
- Requires no tools for tip change.
- Tips can be locked in any position.
- Stainless steel ball valve for added durability.
- Replaceable O-ring seal for safety.
- Accepts snappy adaptor (0386-0500).

Part No. 0386-0410

## Sof Flame™ Tips Air Acetylene / Acetylene Accessories

### Sof-Flame™ Torch Tips

Constructed of solid brass, Sof-Flame™ tips add flexibility to the standard kit, increasing the range up to 4 in. Fits WA-400 torch handles.



Part No. 0386-1153

Part No. 0386-1154

Part No. 0386-0112

Part No. 0386-0113

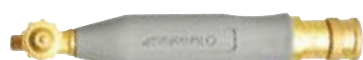
Part No. 0386-0114

Part No. 0386-0115

Part No.	Model No.	Soft Solders		Operating Pressure Range		Acetylene Consumption Range		Replacement Orifice No.
		In.	mm.	PSI	Bar	SCFH	M3/hr.	
0386-1153	S-1	1/16-1/8	2-3	5-15	.35-1.0	.53-.89	.04-.07	OR-S1
0386-1154	S-2	1/8-3/8	3-9	5-15	.35-1.0	1.0-1.7	.08-.14	OR-A2
0386-0112	S-3	3/8-1/2	9-13	5-15	.35-1.0	1.9-3.2	.15-.26	OR-T3
0386-0113	S-4	1/2-1	13-25	5-15	.35-1.0	3.5-5.9	.29-.49	OR-A5
0386-0114	S-5	3/4-1-1/2	19-40	5-15	.35-1.0	6.6-11.0	.55-.92	OR-A11
0386-0115	S-6	1-4	25-100	5-15	.35-1.0	8.8-14.8	.73-1.24	OR-A14

### Swirl Air Acetylene Accessories

**WA-400**



Part No. 0386-0410

**PLF-A5 Proline**



Part No. 0386-0872

**G-4 Turbo Torch®**



Part No. 0386-0308

#### AR-B / ARMC Regulators



AR-B: Part No. 0386-0725

AR-MC: Part No. 0386-0726

#### Hose



AH-12 (Part No. 0386-1090) - 12' hose (3.6m)

AH-24 (Part No. 0386-1091) - 24' hose (7.3m)

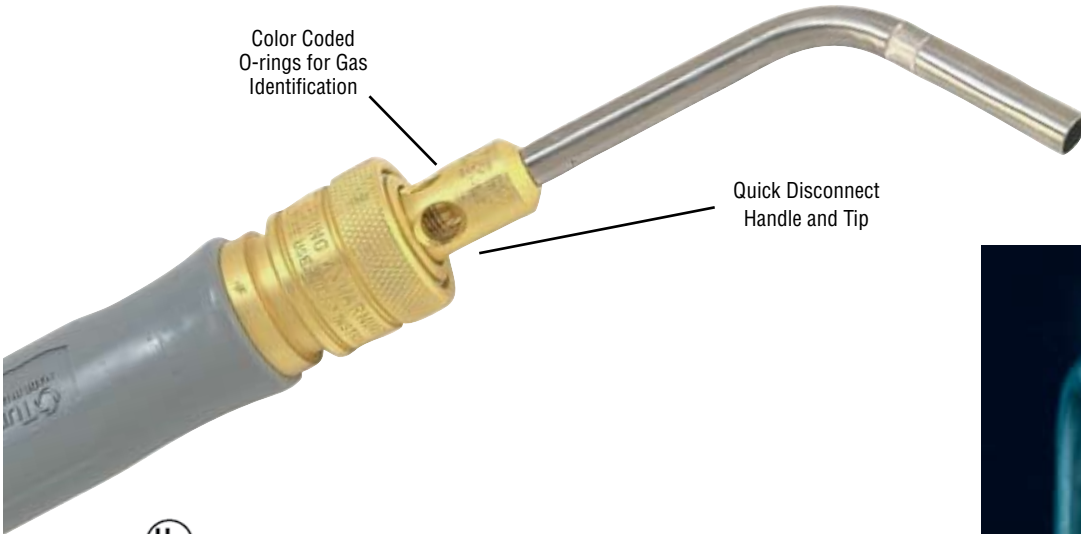
#### Snappy Adapter



Part No. 0386-0500

## Torch Kits

TurboTorch “LP” torches and Pro-Line® torches operate on Propane, Propylene, MAPP®, Apachi® and HPG. TurboTorch/Pro-line® torches use the hotter high energy gases for maximum heat, and propane for economy where high heat is not necessary.



Listed Components



Patented Swirl Combustion Technology

### LP-1 Kit



- R-LP adjustable regulator, CGA-510.
- H-4 handle.
- H-12 hose.
- T-4 tip.
- T-6 tip.
- Soft solders to 6" (150 mm).
- Silver brazes to 4" (100 mm).
- Instruction manual.

**Part No. 0386-0247**

### LP-2 Kit



- R-LP adjustable regulator, CGA-510.
- H-4 handle.
- H-12 hose.
- T-3 tip.
- T-5 tip.
- Soft solders to 4" (100 mm).
- Silver brazes to 2" (50 mm).
- Instruction manual.

**Part No. 0386-0007**

### LP-3 Kit



- R-LP adjustable regulator, CGA-510.
- H-4 handle.
- H-12 hose.
- T-4 tip.
- Soft solders to 2-1/2" (60 mm).
- Silver brazes to 1-1/4" (30 mm).
- Instruction manual.

**Part No. 0386-0006**

## Propane® & MAPP® Hand / Self Lighting Torches & Tips

### Hand / Self Lighting Torches

- Hand torches are built with TurboTorch® swirl combustion.
- Designed to operate with a tank of either MAPP® or Propane gas.



**STK-9 Kit**



**STK-1 Kit**



**TX-500 Kit**



**TX-503 Kit**



**TX-504 Kit**

- STK-R pressure regulator CGA 600.
  - ST-3 tip.
  - Easy to change orifice.
  - Swivels 360°.
  - Instruction manual.
- Part No. 0386-0403**

- STK-R pressure regulator CGA 600.
  - ST-1 tip.
  - Easy to change orifice.
  - Swivels 360°.
  - Instruction manual.
- Part No. 0386-0408**

- Self lighting hand torch
- Includes TX-504 plus bonus 503 tip
  - Swirl tip-concentrates heat/reduces heat time
  - Diaphragm regulator
- Part No. 0386-1299**

- Self Lighting Hand Torch
- Includes TX-503 torch.
  - Swirl tip-concentrates heat/reduces heat time.
  - Diaphragm regulator.
- Part No. 0386-1298**

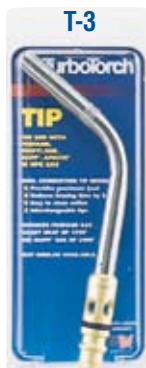
- Self Lighting Hand Torch
- Includes TX-504 torch
  - Swirl tip-concentrates heat/reduces heat time
  - Diaphragm regulator
- Part No. 0386-1296**

### Torch Tips



**T-2**

**Part No. 0386-0150**



**T-3**

**Part No. 0386-0151**



**T-4**

**Part No. 0386-0152**



**T-5**

**Part No. 0386-0153**



**T-6**

**Part No. 0386-0154**

Tip No.	Tip Size		Gas Flow		Copper Tubing Size Capacity Propane Gas				Copper Tubing Size Capacity Mapp® Gas				Replacement Orifice
	In.	mm.	@24 PSI Lbs/hr	@36 PSI Lbs/hr	Soft Solder		Silver Solder		Soft Solder		Silver Solder		
					mm.	In.	mm.	In.	mm.	In.	mm.	Model	
T-2	5/16	8.0	.14	.17	1/8 - 1/4	3 - 10	1/16 - 1/4	1 - 6	1/8 - 1/2	3 - 12	1/8 - 1/4	3 - 10	OR-A2 0386-1000
T-3	7/16	11.1	.20	.25	1/4 - 1	6 - 25	1/8 - 1/2	3 - 10	1/4 - 1-1/2	10 - 40	1/4 - 1/2	6 - 15	OR-T3 0386-1021
T-4	1/2	12.7	.39	.48	1/4 - 1-1/2	10 - 40	1/4 - 3/4	6 - 15	1/4 - 2-1/2	10 - 60	1/4 - 1-1/4	6 - 35	OR-A3 0386-1001
T-5	3/4	19.0	1.10	1.3	1-1/2 - 2-1/2	25 - 60	1/2 - 1-1/4	15 - 35	1 - 4	25 - 100	1/2 - 2	15 - 50	OR-A8 0386-1003
T-6	1	25.4	2.10	2.5	1-1/2 - 4	40 - 100	3/4 - 2	20 - 50	1-1/2 - 6	25 - 150	3/4 - 4	20 - 100	OR-T6 0386-1024

\*TurboTorch Tips are for use with H-4 Handle Part No. 0386-0300

**Hotspotters / Weed Burners**

**Hotspotters**

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.

- Delivers 500,000 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-102).
- 31" heavy-duty handle.
- Meets NFPA 51 specifications.
- Packaged in retail, self-service packaging.
- One year warranty.



**Part No. WB-101**



**Part No. WB-102**



**Part No. WB-100**

Part No.	Description
WB-101	Heavy Duty
WB-102	Standard Duty
WB-100	Professional
Replacement Parts	
WB-100-25	10' Hose Assembly for WB-101 and WB-102 only
WB-100-13	Handle Assembly - for WB-101 only
WB-100-19	Handle Assembly - for WB-102 only



**WEED Burning**  
**ICE Melting**  
**PAINT Removal**  
**ROOFING Repair**

**HUNDREDS**  
**of**  
**USES!**

**ASPHALT Repair**  
**SNOW Removal**  
**TAR Sealing**  
**PREHEATING Metal**

## Flow Gauge & Flowmeter Regulators

### REB Series Flow Gauge Regulators for Inert Gas

REB Series flow gauge regulators offer an economical, lightweight alternative to standard flowmeter units. These single stage regulators include a delivery gauge that is dual calibrated in standard cubic feet per hour (SCFH) for both argon and carbon dioxide. The flow gauge works in conjunction with a metering outlet orifice to deliver precise gas flow. Gas flow is adjustable to meet the requirements of MIG and TIG welding applications.



Part No. REB-3-FG

- Machined brass body resists corrosion.
- Dual scale flow gauge calibrated for argon and carbon dioxide services.
- Durable neoprene diaphragm maintains consistent flow rates.
- Protective inlet filtering system extends regulator life.
- FGD models include 6 ft. neoprene hose with fittings in self-service retail packaging.
- Large 2" gauges are easy to read.
- PCTFE seat assembly.
- Weight: 1 lb., 13 oz.
- Size: (6" L x 3-3/4" W x 4-1/4" H).
- Three year warranty.
- Made in the U.S.A.

Part No.	CGA inlet/ Gas Service	Flow Capacity SCFH	Delivery Flow Gauge	Inlet Pressure PSIG	Outlet Connections (both provided)
REB-3-FG	580 Argon	0-35	0-35	0-3000	9/16"-18 RHM and 5/8"-18 RHF
REB-3-FGD*	580 Argon	0-35	0-35	0-3000	9/16"-18 RHM and 5/8"-18 RHF
REB-4-FG	320 Carbon Dioxide	0-35	0-35	0-3000	9/16"-18 RHM and 5/8"-18 RHF
REB-4-FGD*	320 Carbon Dioxide	0-35	0-35	0-3000	9/16"-18 RHM and 5/8"-18 RHF

\*FGD models include 6 ft. neoprene hose with fittings

### RS Series Flow Gauge Regulators

The RS Series flow gauge regulators offer a practical, economical alternative to more expensive flowmeter units. Not limited to only "vertical" operation, these regulators operate in a variety of positions. The RS Series utilizes Western's "pressure compensated" (COMP1™) design. For applications that require high flow rates, this design provides more consistent delivery pressure by minimizing fluctuation over a wide range of inlet pressures.



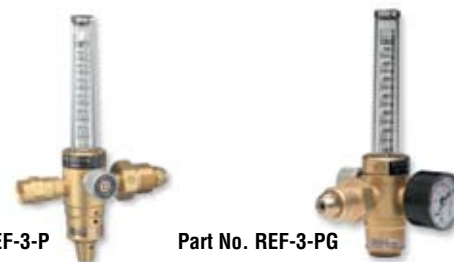
Part No. RS-3-FG

- Machined brass body resists corrosion.
- 2" reinforced neoprene diaphragm provides durability.
- Dual inlet filtering system extends regulator life.
- Large 2" dual scale gauges are easy to read.
- Self re-seating relief valve protects against over-pressurization.
- Weight: 3 lbs.
- Size: (4-1/16" L x 6-3/8" W x 5-7/8" H).
- Three year warranty.
- Made in the U.S.A.

Part No.	CGA Inlet/ Gas Service	Flow Capacity SCFH	Inlet Pressure PSIG	Outlet Connections
RS-3-FG	580 Argon	0-60	0-3000	5/8"-18 RHF
RS-4-FG	320 Carbon Dioxide	0-60	0-3000	5/8"-18 RHF

### REF Series Flowmeter Regulators (Piston Style)

REF Series models combine a single stage piston regulator with a flow tube to provide an economical, lighter weight alternative to more expensive diaphragm style flowmeter regulators. The REF series is designed to meet the requirements of professional welders.



Part No. REF-3-P

Part No. REF-3-PG

- Machined brass body resists corrosion.
- Durable brass piston design.
- Built-in cylinder contents indicator forewarns when cylinder is near depletion (gaugeless models).
- Dependable PTFE seat assembly.
- Dual inlet filtering system extends regulator life.
- Durable flowtube with large, easy-to-read gradients and shatter-resistant cover.
- Dual calibrated tube for argon and carbon dioxide service.
- Back pressure compensated flowmeter.
- Sensitive needle valve for fine adjustment.
- PD & PGD models include 6 ft. neoprene hose w/ fittings in self service retail packaging.
- Weight: 1 lb., 8 oz.
- Size: (2-1/4" L x 5" W x 7-3/4" H).
- Three year warranty.
- Made in the U.S.A.

Part No.	Display Pack No.	CGA Inlet/Gas Service PSIG	Inlet Pressure	Flow Capacity SCFH	Outlet Connections (both provided)
REF-3-P	REF-3-PD*	580 Argon	0-3000	0-70	9/16"-18 RHM and 5/8"-18 RHF
REF-3-PG	REF-3-PGD*	REF 580 Argon, w/gauge	0-3000	0-70	9/16"-18 RHM and 5/8"-18 RHF
REF-4-P	REF-4-PD*	320 Carbon Dioxide	0-3000	0-70	9/16"-18 RHM and 5/8"-18 RHF
REF-4-PG	REF-4-PGD*	320 Carbon Dioxide w/gauge	0-3000	0-70	9/16"-18 RHM and 5/8"-18 RHF

\*PD & PGD models include 10 ft. neoprene hose with fitting

## Flowmeter Regulators

### RF Series Flowmeter Regulators (Diaphragm Style)

RF Series models combine a single stage diaphragm regulator with a flowmeter to provide precise flows for the professional welder, laboratory, or industrial process user. A high pressure gauge keeps the user informed of the cylinder's content.

- Anodized aluminum body resists corrosion.
- PCTFE seat assembly withstands high service pressures.
- Dual inlet filtering system extends product life.
- Durable flow tube with large, easy to read gradients and shatter resistant cover.
- Dual calibrated flow tube for argon and carbon dioxide services.
- Sensitive needle valve for fine adjustment.
- Back pressure compensated flowmeter.
- Durable neoprene diaphragm.
- Weight: 1lb., 3 oz.
- Size: (3" L x 6-1/2" W x 8-1/2" H).
- Three year warranty.
- Made in the U.S.A.



Part No. RF-3-P

Part No.	CGA Inlet/ Gas Service	Flow Capacity SCFH	Inlet Pressure PSIG	Outlet Connections (both provided)
RF-3-P	580 Argon	0-70	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RF-4-P	320 Carbon Dioxide	0-70	0-3000	9/16"-18 RHM and 5/8"-18 RHF

### RFS & RFD Series Flowmeter Regulators

RFS & RFD Series models combine a single stage regulator with one (RFS Series) or two (RFD Series) flowmeters. These products also utilize Western's "pressure compensated" (COMP1™) design. For applications that require high flow rates, this design provides more consistent delivery pressure by minimizing fluctuation over a wide range of inlet pressures. Designed for users who require precise flows, these products are ideal for the professional welder, laboratory, or industrial process user.

A high pressure gauge keeps the user informed of the cylinder's content.

- Machined brass body resists corrosion.
- Easy-to-read 2" pressure gauge.
- Durable neoprene diaphragm maintains consistent flow rates.
- Dual inlet filtering system extends regulator life.
- Self-reseating pressure relief valve protects against over-pressurization.
- Durable flow tube with large, easy to read gradients and shatter-resistant cover.
- Dual calibrated flow tube for argon and carbon dioxide services.
- Back pressure compensated flowmeter improves flow accuracy.
- Nickel chrome plated zinc bonnet.
- Sensitive, easily adjusted needle valve on flowmeters.
- Weight: RFS = 3 lbs., 3 oz. RFD = 4 lbs., 10 oz.
- Size: RFS = 7-1/2" L x 4-1/2" W x 6-3/4" H  
RFD = 10-3/8" L x 4-1/2" W x 7" H.
- Three year warranty.
- Made in the U.S.A.



Part No. RFS-3-P

Part No.	CGA Inlet/ Gas Service	Flow Capacity SCFH	Inlet Pressure PSIG	Outlet Connections (both provided)
RFS-3-P	580 Argon	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RFS-4-P	320 Carbon Dioxide	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RFS-7-P	580 Nitrogen	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RFD-3-P	580 Argon	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RFD-4-P	320 Carbon Dioxide	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF

### RWS Series Flowmeters

RWS Series Flowmeters provide accurate measurement of gas flow in welding and laboratory applications. The economical design is back pressure compensated to improve flow accuracy.

- Durable flow tube with large, easy to read gradients and shatter-resistant cover.
- Dual calibrated tube for argon and carbon dioxide services.
- Sensitive, easily adjusted needle valve.
- Protective inlet filter extends flowmeter life.
- Weight: 8 oz.
- Size: (1-1/2" L x 2-1/4" W x 6-1/2" H).
- Three year warranty.
- Made in the U.S.A.



Part No. RWS-2-13

Part No.	Gas Service	Flow Capacity SCFH	Inlet Connection	Calibrated Inlet Pressure PSIG	Outlet Connections
RWS-2-7	Nitrogen	0-100	1/8" NPT F	50	9/16"-18 RHM and 5/8"-18 RHF
RWS-2-13	Argon/CO <sub>2</sub> (Dual Calibrated)	0-70	1/8" NPT F	50	9/16"-18 RHM and 5/8"-18 RHF



## Regulators

### Preset Flow Regulator (F.R.O.G.)

RP Series models are flow regulated orifice gauges (F.R.O.G.) designed to supply a preset flow of inert shielding gas for metal inert gas (M.I.G.) welding applications. A patented cylinder contents indicator forewarns the user when the cylinder is near depletion. The single stage piston design provides value and performance for small jobs and the "weekend welder".



Part No. RP30580

- Machined brass body resists corrosion.
- Protective inlet filter extends regulator life.
- Internal safety relief guards against over-pressurization.
- Hose barb outlet for 3/16" or 1/4" ID hose.
- Easy to use—preset flow requires no adjustment.
- Dependable brass piston with PTFE Seat.
- Delivers 30 SCFH argon and 22 SCFH CO<sub>2</sub>.
- Weight: 9.5 oz.
- Size: (3-3/8" L x 1-1/8" W x 1-3/8" H).
- One year warranty.
- Made in the U.S.A.

Part No.	CGA Inlet / Gas Service	Capacity SCFH	Inlet Pressure PSIG	Hose Barb Outlet
RP22320	320 Carbon Dioxide	22	0-3000	Works with 3/16" and 1/4" ID hose
RP30580	580 Argon	30	0-3000	Works with 3/16" and 1/4" ID hose
RP30580G*	580 Argon	30	0-3000	Works with 3/16" and 1/4" ID hose

\*RP30580G includes gauge

### Preset Pressure Regulator

RP Series models are designed to supply a preset pressure for portable CO<sub>2</sub> applications. The economical design offers pressure selection from 30 PSIG to 200 PSIG.



- Machined brass body resists corrosion.
- Protective inlet filter extends regulator life.
- Internal safety relief vent protects against over-pressurization.
- 1/4" NPT side port outlet.
- Easy to use – preset pressure requires no adjustment.
- Dependable solid brass piston with PTFE seat.
- Weight: 9.5 oz.
- Size: (3-3/8" L x 1-1/8" W x 1-3/8" H).
- One year warranty.
- Made in the U.S.A.

Part No.	CGA Inlet	Max. Inlet Pressure PSIG	Preset Output Pressure PSIG	Side Outlet Port
RP320030	320 Carbon Dioxide	3000	30	1/4" NPT F
RP320050	320 Carbon Dioxide	3000	50	1/4" NPT F
RP320075	320 Carbon Dioxide	3000	75	1/4" NPT F
RP320100	320 Carbon Dioxide	3000	100	1/4" NPT F
RP320125	320 Carbon Dioxide	3000	125	1/4" NPT F
RP320150	320 Carbon Dioxide	3000	150	1/4" NPT F
RP320175	320 Carbon Dioxide	3000	175	1/4" NPT F
RP320200	320 Carbon Dioxide	3000	200	1/4" NPT F

### REB Series Light Duty, Single Stage Regulators

REB Series models are ideally suited for applications requiring a portable, lightweight, compact regulator. Typical applications include use in plumbing, light duty cutting and welding.



- Machined brass body resists corrosion.
- Neoprene diaphragm is sensitive yet durable to maintain consistent delivery pressure.
- Dual inlet filtering system extends regulator life.
- Large 2" dual scale gauges are easy to read.
- PCTFE seat assembly.
- Weight: 1 lb., 13 oz.
- Size: (6" L x 3-3/4" W x 4-1/4" H).
- Three year warranty.
- Made in the U.S.A.

Part No.	CGA Inlet / Gas Service	Delivery Pressure Range PSIG	Max. Rated Flow SCFH	Inlet Pressure PSIG	Outlet Connections
REB-1-1	510 Acetylene	0-15	230	0-400	9/16"-18 LHM
REB-1A-1	300 Acetylene	0-15	230	0-400	9/16"-18 LHM
REB-4-3	320 Carbon Dioxide	0-100	800	0-3000	9/16"-18 RHM
REB-9-3	540 Oxygen	0-100	1000	0-3000	9/16"-18 RHM

### ST Series High Pressure Step Down Regulators

The patented design of the ST Series regulators allows for the use of conventional regulators with high pressure cylinders. These regulators deliver high flow rates while reducing high cylinder pressures to lower pressures that conventional regulators are designed to handle. This eliminates the need for a second set of equipment when working with high pressure cylinders. To install, remove the CGA inlet connection from the regulator and replace it with the ST regulator.



Part No. ST680

- Durable solid brass construction resists corrosion.
- Protective inlet filter extends regulator life.
- Reliable piston and seat assembly.
- For use with 6000 PSIG cylinders.
- Three year warranty.
- Made in the U.S.A.

Part No.	Gas Service	Max Inlet Pressure PSIG	Max Flow Pressure SCFH	Outlet Connection
ST347	347 Compressed Air	5500	6000	1/4" NPT M
ST577	577 Oxygen	4000	5700	1/4" NPT M
ST680	680 Inert Gases	5500	6,120 (Nitrogen)	1/4" NPT M
ST695	695 Flammable	5500	N/A	1/4" NPT M
ST701	701 Oxygen	5500	5700	1/4" NPT M

## Regulators

### RS Series Medium Duty Single Stage Regulators

RS Series models are for applications that require high flow rates, this design provides more consistent delivery pressure by minimizing fluctuation over a wide range of inlet pressures. These regulators are appropriate for industrial, welding, laboratory and general use applications. Certain models feature a 1/4" NPT outlet connection for high pressure applications.

- Machined brass body resists corrosion.
- 2" reinforced neoprene diaphragm.
- 450 PSIG models have KEL-F® seat to accommodate high pressure applications.
- Dual inlet filter system extends regulator life.
- Hydrogen and methane models equipped with pipe away relief valves.
- Most models include self-reseating pressure relief valve (except for RS-1-1, RS-1A-1, RS-10-2).
- Nickel chrome plated zinc bonnet.
- Large 2" gauges with easy to read gradients.
- Weight: 3 lbs.
- Three year warranty.
- Made in the U.S.A.



Part No. RS-2-4

Part No.	CGA Inlet / Gas Service	Delivery Pressure Range PSIG	Maximum Flow SCFH	Inlet Pressure PSIG	Outlet Connection
RS-1-1*	510 Acetylene	0-15	420	0-400	9/16"-18 LH M
RS-1A-1*	300 Acetylene	0-15	420	0-400	9/16"-18 LH M
RS-2-3*	346 Air	0-80	3000	0-3000	9/16"-18 RH M
RS-2-4*	346 Air	0-180	6500	0-3000	1/4" NPT F
RS-2-4H	346 Air Hand-Tight	0-180	6500	0-3000	1/4" NPT F
RS-2-5	346 Air	0-450	10,000	0-3000	1/4" NPT F
RS-4-3*	320 Carbon Dioxide	0-80	2200	0-3000	9/16"-18 RH M
RS-4-4*	320 Carbon Dioxide	0-180	5000	0-3000	9/16"-18 RH M
RS-6-3*	350 Hydrogen, Methane	0-80	12,880	0-3000	9/16"-18 LH M
RS-6-4*	350 Hydrogen, Methane	0-180	28,400	0-3000	9/16"-18 LH M
RS-7-3*	580 Inert Gases	0-80	3430	0-3000	9/16"-18 RH M
RS-7-4*	580 Inert Gases	0-180	7570	0-3000	9/16"-18 RH M
RS-7-5	580 Inert Gases	0-450	8500	0-3000	1/4" NPT F
RS-8-3*	326 Nitrous Oxide	0-80	2200	0-3000	9/16"-18 RH M
RS-8-4*	326 Nitrous Oxide	0-180	5000	0-3000	9/16"-18 RH M
RS-9-3*	540 Oxygen	0-80	3230	0-3000	9/16"-18 RH M
RS-9-4*	540 Oxygen	0-180	7100	0-3000	9/16"-18 RH M
RS-9-5	540 Oxygen	0-450	7900	0-3000	1/4" NPT F
RS-10-2*	510 Liquefied Fuel Gases	0-45	1380	0-3000	9/16"-18 LH M

\* UL Listed

- Do not have self-reseating pressure relief valve

### Purging/Testing Regulators

The REB-7-5AC is ideal for HVAC applications. This regulator is designed specifically for nitrogen purging of air conditioning and refrigeration systems at pressures up to 450 PSIG. For applications that require high flow rates, the design provides more consistent delivery pressure by minimizing fluctuation over a wide range of inlet pressures.

Delivers dependable performance from an economical regulator.

- Machined brass body resists corrosion and extends service life.
- PCTFE seat assembly withstands high service pressures.
- Durable tee handles.
- Sintered inlet filter.
- Easy-to-read 2" gauges.
- Three year warranty.
- Made in the U.S.A.
- Compact, lightweight design.
- Weight: 1 lb., 14 oz.
- Size: (6" L x 3-3/4" W x 4-1/4" H).



Part No. REB-7-5AC

Part No.	CGA Inlet/ Gas Service	Delivery Pressure Range PSIG	Maximum Flow SCFH	Inlet Pressure PSIG	Outlet Connection
REB-7-5AC	580 Nitrogen	0-450	1500	0-3000	1/4" SAE flare

## Regulators / Gas Saver

### RS Series High Delivery Pressure Regulators (Piston Style)

RS Series models feature a compact, reliable piston design and are recommended for applications requiring high delivery pressures, up to 2000 PSIG. These regulators provide precision operation under the most demanding conditions. When installed with a Stage1™ high-pressure stem regulator, RS models are appropriate for use with high pressure cylinders (up to 6000 PSIG).

- Machined brass body and bonnet resists corrosion and extends service life.
- Dependable brass piston design.
- Large 2-1/2" gauges with easy-to-read gradients.
- PCTFE seat assembly withstands high service pressures.
- Dual inlet filtering extends regulator life.
- 1/4" NPT female outlet, 180° opposed to inlet.
- Inlet pressures up to 3000 PSIG standard, upgradable to 6000 PSIG by combining with a STAGE 1™ regulator.
- Weight: 4 lbs., 8 oz.
- Size: (6-1/2" L x 7" W x 5-1/2" H).
- Three year warranty.
- Made in the U.S.A.



Part No. RS-11-15

Part No.	CGA inlet/ Gas Service	Delivery Pressure Range PSIG	Maximum Flow SCFH	Outlet Connections
RS-9-15	540 Oxygen	0-1500	2500	1/4" NPT F
RS-9-20	540 Oxygen	0-2000	2800	1/4" NPT F
RS-11-15	580 Inert	0-1500	2550 (N <sub>2</sub> )	1/4" NPT F
RS-11-20	580 Inert	0-2000	2850 (N <sub>2</sub> )	1/4" NPT F

### RHP Series High Inlet / High Delivery Pressure Regulator

RHP Series regulators are designed for use with high pressure cylinders (up to 6000 PSIG) and are capable of delivering up to 4500 PSIG. Select models include a delivery flow gauge or flowmeter for MIG and TIG applications. Certain models feature Western's "pressure compensated" COMP1™ design. For applications that require high flow rates, this design provides more consistent delivery pressure by minimizing fluctuation over a wide range of inlet pressures.

- Diaphragm models feature a machined brass body with nickel chrome plated bonnet for exceptional service life.
- Piston models constructed with a durable all-brass body.
- PCTFE seat assembly withstands high service pressures.
- Re-seating relief valve protects against over pressurization.
- Dual safety relief valves and dual inlet filtering extends regulator life.
- Low friction, replaceable Delrin® thrust bushing extends service life.
- Large gauges are easy to read—2" gauges on diaphragm models and 2-1/2" gauges on piston models.
- Weight: 3 lbs.
- Size: (4-1/2" L x 7" W x 6" H).
- Three year warranty.
- Made in the U.S.A.



Part No. RHP-2-4

Part No. RS-11-15

Part No.	Style	CGA Inlet/ Gas Service	Delivery Pressure Range PSIG	Maximum Flow SCFH	Outlet Connections
RHP-2-4*	Diaphragm	347 Compressed Air	0-180	3200	1/4" NPT F
RHP-2-5*	Diaphragm	347 Compressed Air	0-450	3700	1/4" NPT F
RHP-2-30	Piston	347 Compressed Air	0-3000	2964	1/4" NPT F
RHP-2-45	Piston	347 Compressed Air	0-4500	3735	1/4" NPT F
RHP-9-15	Piston	577 Oxygen	0-1500	2500	1/4" NPT F
RHP-11-4*	Diaphragm	680 Inert	0-180	3260	1/4" NPT F
RHP-11-15	Piston	680 Inert	0-1500	2550	1/4" NPT F
RHP-11-20	Piston	680 Inert	0-2000	2850	1/4" NPT F
RHP-11-30	Piston	680 Inert	0-3000	3014	1/4" NPT F
RHP-11-45	Piston	680 Inert	0-4500	3798	1/4" NPT F

### RPB-3 Gas Saver

The RPB-3 Gas Saver eliminates gas surge with the start of each weld and maintains uniform flow in MIG and TIG welding applications. Easily installed and adjusted, this unit connects to any Flowmeter or Flow Gauge Regulator outlet.

- Machined aluminum body.
- Chrome plated zinc bonnet.
- Durable reinforced neoprene diaphragm.
- Factory set at 4 PSIG but easily adjustable to meet a range of requirements.
- Weight: 1 lb.
- Size: (3" L x 2" W x 5-3/4" H).
- Three year warranty.
- Made in the U.S.A.



Part No. RPB-3

Part No.	Service	Inlet Connection	Inlet Pressure PSIG	OutletConnection
RPB-3	Argon (CO <sub>2</sub> )	5/8"-18 RH M	0-200	9/16"-18 RH M & 5/8"-18 RH F

## Manifold, In-Line and Line Station Regulators

### RM Series Single Stage Manifold Regulators

RM Series manifold regulators feature a pressure compensated single stage design (oxygen is two-stage) that delivers stable delivery pressure performance comparable to a two stage design. The unique cartridge permits easy, single-unit replacement of vital parts in minutes. The cartridge allows the seat, nozzle, filter, spring, seals and built-in check-relief valve to be replaced without special tools and without breaking the bonnet-to-body seal. The cartridge can be removed and a new one installed without costly down time or removing the regulator from the pipeline.

### WMR Series In-Line Regulators

The WMR Series In-line Regulators are designed for installation in pipe lines that require large gas volumes. These regulators provide high gas flows from gas distribution systems. Maximum inlet pressure 400 PSIG.

### WSR Series Line Station

Line station regulators utilize a large diaphragm for high sensitivity and provide extremely accurate delivery pressure. Maximum inlet pressure 200 PSIG.



Part No.	Gas Service	Delivery Lockup	Flowing Pressure	Gas Flow	Delivery Range PSIG	Max Inlet Pressure PSIG	Inlet Connection	Outlet Connection	Replacement Cartridge No.
RM-1-1	Acetylene	15	10	850	1-15	400	1 - 11-1/2" NPS LH M	1 - 11-1/2" NPS LH F	RWC-3-59
RM-2-4	Compressed Air	50	45	960	20-160	3000	1 - 11-1/2" NPS RH M	1 - 11-1/2" NPS RH F	RWC-3-49
RM-4-4	Carbon Dioxide	50	45 40	960 2100	20-160	3000	1 - 11-1/2" NPS RH M	1 - 11-1/2" NPS RH F	RWC-3-49
RM-6-4	Hydrogen	50	45 40	960 2100	20-160	3000	1 - 11-1/2" NPS LH M	1 - 11-1/2" NPS LH F	RWC-3-49
RM-7-4	Nitrogen, Helium and Argon	50	45 40	960 2100	20-160	3000	1 - 11-1/2" NPS RH M	1 - 11-1/2" NPS RH F	RWC-3-49
RM-8-4	Nitrous Oxide	50	45 40	960 2100	20-160	3000	1 - 11-1/2" NPS RH M	1 - 11-1/2" NPS RH F	RWC-3-49
RDM-9-3	Oxygen	50	45 40	310 950	20-100	3000	1 - 11-1/2" NPS RH M	1 - 11-1/2" NPS RH F	RWD-2-19 1st Stage RWD-2-36 2nd Stage
RDM-9-4	Oxygen	50	45 40	310 950	20-160	3000	1 - 11-1/2" NPS RH M	1 - 11-1/2" NPS RH F	RWD-2-19 1st Stage RWD-2-36 2nd Stage
RM-10-2	LPG Fuel Gas	45	40 35	480 940	0-45	400	1 - 11-1/2" NPS LH M	1 - 11-1/2" NPS LH F	RWC-3-59
RS-300-MAN	Nitrogen	170	160 150	800 1422	40-300	3000	1 - 11-1/2" NPS RH M	1 - 11-1/2" NPS RH F	RK-1022 (repair kit)

Part No.	Inlet/Outlet Connection (Female)	Delivery Pressure PSIG	Air at 50 PSIG 100 PSIG inlet SCFH	Air at 100 PSIG 250 PSIG Inlet Delivery SCFH	Gauge Pressure Range
WMR-2-2	1/2" NPT	1-50	3,000	3,000	0-100
WMR-2-3	3/4" NPT	50-125	11,000	21,000	0-200
WMR-2-4	1/2" NPT	50-125	5,000	10,000	0-200
WMR-2-5	1/2" NPT	100-200	3,500	12,500	0-400
WMR-2-6	3/4" NPT	100-200	6,000	20,000	0-400
WMR-2-8	1" NPT	100-200	6,000	20,000	0-400

Part No.	Gas Service	Delivery Lock-Up	Flowing Pressure SCFH	Flow Connection SCFH	Inlet	Outlet Connection
WSR-1-1	Oxygen	125 PSIG	120	760	7/8"-14 RH F, CGA-024	9/16"-18 RH M, CGA-022
WSR-1-2	Acetylene	15 PSIG	10	420	7/8"-14 LH F, CGA-025	9/16"-18 LH M, CGA-023

## Balloon Inflators

### Economy Rental Inflators

Economy hand tight rental inflators are durable, easy-to-install and easy-to-use. The rubber tilt valve is simple to replace if it gets damaged due to excessive wear and tear. Models are available with or without contents gauge. 3000 PSIG maximum inlet pressure. One year warranty. Made in the U.S.A.



**Part No. R125G**  
**Replacement Gauge: WMG-75**

### Deluxe Rental Inflators

Deluxe rental inflators provide for quick filling of latex balloons. Most models feature a large, easy-to-use hand tight cylinder connection to make installation simple and quick. Available with or without cylinder contents gauge. 3000 PSIG maximum inlet pressure. Two year warranty. Made in the U.S.A.



**Part No. RPB-6HG**  
**Replacement Gauge: WMG-75**

### Professional Foil/Latex Balloon Inflators

Foil and latex balloon inflators are designed to quickly inflate foil balloons to the same size every time. An automatic shut-off for foil balloons eliminates costly balloon breakage. The latex filling outlet is available with a push valve or tilt valve for fast inflation of balloons. The large hand tight connection provides for easy attachment to a cylinder. 3000 PSIG maximum inlet pressure. Two year warranty. Made in the U.S.A.



**Part No. BR4HG**  
**Replacement Gauge: G-18-4000W**



**Part No. RPB-62HGV**  
**Replacement Gauge: WMG-75**

Part No.	CGA Inlet	Description
R125*	580	Economy hand tight inflator
R125G	580	Economy hand tight inflator with contents gauge
RPB-6	580	Deluxe inflator, wrench connection
RPB-6G	580	Deluxe inflator with gauge, wrench connection
RPB-6H	580	Deluxe inflator, hand tight connection
RPB-6HG	580	Deluxe inflator, hand tight connection with gauge
RPB-62HGV	580	Dual inflator, foil filler with tilt valve, hand tight connection, gauge
BR4HG	580	Dual inflator, vertical design, foil filler with tilt valve, hand tight connection, tie hook, ribbon cutter

\*Sold in retail clamshell packaging

## Replacement Valve and Tip Attachments



**Part No. RPB-5-1FV**

Part No.	Description
<b>Valves</b>	
RPB-5-1V	1/4" male npt tilt valve
RPB-5-2V	1/4" male npt tilt valve with mylar tip
RPB-5-1FV	Replacement mylar tip for tilt valve
RPB-5-1P	1/4" male npt push valve*
<b>Tips</b>	
RPB-5-1F	Mylar balloon tip attachment
RPB-5-1L	Latex balloon tip attachment
RPB-5-1N	Needle tip for valved, plugged latex balloons
RPB-5-1X	Helium/air mixer attachment (60% helium/40% air)
RPB-5-1Z	Adjustable helium/air mixer

\*Accepts all tips listed above

## A, B, C, and D Size Fittings

### Hose Nuts

Pressures To 200 PSIG (1400 kPa)



Part No.	Description	Size	Service	Material
<b>A-Size (3/8"-24 Thread) *B-Size (9/16"-18 Thread)</b>				
0009	Oxygen RH	A-Size	CGA-020	Brass
0010	Acetylene/F. Gases LH	A-Size	CGA-021	Brass
0007	Oxygen RH	B-Size	CGA-022	Brass
SS-7	Oxygen RH	B-Size	CGA-022	St. Steel
0008	Acetylene/F. Gases LH	B-Size	CGA-023	St. Steel
SS-8	Acetylene/F. Gases LH	B-Size	CGA-023	St. Steel
<b>C-Size (7/8"-14 Thread) *D-Size (1-1/4"-12 Thread)</b>				
0C-7	Oxygen RH	C-Size	CGA-024	Brass
0C-8	Acetylene/F. Gases LH	C-Size	CGA-025	Brass
0D-7	Oxygen RH	D-Size	CGA-026	Brass
0D-8	Acetylene/F. Gases LH	D-Size	CGA-027	Brass

### Barbed Hose Nipples

Pressures To 200 PSIG (1400 kPa)



Part No.	Description	Size	Length	Material
<b>A-Size (Use 9 or 10 Nut) *B-Size (Use 7 or 8 Nut)</b>				
0019	3/16" ID Hose	A-Size	1-1/4"	Brass
0018	3/16" ID Hose	B-Size	1-15/32"	Brass
0017	1/4" ID Hose	B-Size	1-15/32"	Brass
SS-17	1/4" ID Hose	B-Size	1-15/32"	St. Steel
07-W*	1/4" ID Hose	B-Size	1-15/32"	Brass
0216	5/16" ID Hose	B-Size	1-15/32"	Brass
0020	3/8" ID Hose	B-Size	1-15/32"	Brass
20-A	3/8" ID Hose	B-Size	1-3/4"	Brass
<b>C-Size (Use C-7 or C-8 Nut) *D-Size (Use D-7 or D-8 Nut)</b>				
C-20	3/8" ID Hose	C-Size	2"	Brass
C-19	1/4" ID Hose	C-Size	1-19/32"	Brass
C-18	1/2" ID Hose	C-Size	2-1/4"	Brass
C-17	1/2" ID Hose	C-Size	3-3/4"	Brass
D-17	1/2" ID Hose	D-Size	3-3/16"	Brass
D-18	3/4" ID Hose	D-Size	3-1/2"	Brass

\*W = With O-Ring

### Spiral and NPT Hose Nipples

Pressures To 200 PSIG (1400 kPa)



Part No.	Description	Size	Length	Material
<b>A-Size (Use 9 or 10 Nut) *B-Size (Use 7 or 8 Nut)</b>				
0023	1/8" NPT	B-Size	1-1/2"	Brass
0013	3/16" ID Hose	A-Size	1-1/4"	Brass
0012	3/16" ID Hose	B-Size	1-13/32"	Brass
0011	1/4" ID Hose	B-Size	1-19/32"	Brass
0516	5/16" ID Hose	B-Size	1-19/32"	Brass
0138	3/8" ID Hose	B-Size	1-5/8"	Brass
<b>C-Size (Use C-7 or C-8 Nut) *D-Size (Use D-7 or D-8 Nut)</b>				
C-88	1/4" NPT	C-Size	2"	Brass
D-20	1/2" NPT	D-Size	2-1/2"	Brass

### Regulator Outlet Bushings (Adaptors)

Pressures To 200 PSIG (1400 kPa)



Part No.	Description	Material
0132	1/8" NPT to A-Size RH	Brass
0133	1/8" NPT to A-Size LH	Brass
0134	1/4" NPT to A-Size RH	Brass
0135	1/4" NPT to A-Size LH	Brass
0136	1/8" NPT to B-Size RH	Brass
0137	1/8" NPT to B-Size LH	Brass
0032	1/4" NPT to B-Size RH	Brass
SS-32	1/4" NPT to B-Size RH	St. Steel
0033	1/4" NPT to B-Size LH	Brass
0142	3/8" NPT to B-Size RH	Brass
SS-142	3/8" NPT to B-Size RH	St. Steel
0143	3/8" NPT to B-Size LH	Brass

Part No.	Description	Material
0144	1/2" NPT to B-Size RH	Brass
0145	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

Male NPT to Oxygen RH — Male NPT to acet./F. gases LH

## Hose Couplers & Adapters

### Hose Couplers, Brass

Pressures To 200 PSIG (1400 kPa)



Part No. 0030



Part No. 0131

Part No.	Description	Size
<b>A-Size: CGA-020 RH &amp; CGA-021 LH *B-Size: CGA-022 RH &amp; CGA-023 LH</b>		
0130	Oxygen RH, A-Size to A-Size	A-Size
0131	Acet/F. Gases LH, A-Size to A-Size	A-Size
0230	Oxygen RH, A-Size to B-Size	A-Size/B-Size
0231	Acet/F. Gases LH, A-Size to B-Size	A-Size/B-Size
0030	Oxygen RH, B-Size to B-Size	B-Size
0031	Acet/F. Gases LH, B-Size to B-Size	B-Size
<b>C-Size: CGA-024 RH &amp; CGA-025 LH *D-Size: CGA-026 RH &amp; CGA-027 LH</b>		
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

### Hose Adaptors, Brass

Pressures To 200 PSIG (1400 kPa)



Part No. 0253



Part No. 0123



Part No. 0105



Part No. 24-0



Part No. 0541



Part No. 40-B

Part No.	Description	Gas
0107	90° Male NPT to Female B-Size, RH	Oxygen
0108	90° Male NPT to Female B-Size, LH	Acet/F. Gases
0127	45° 1/4" Male NPT to Male B-Size, RH	Oxygen
0128	45° 1/4" Male NPT to Male B-Size, LH	Acet/F. Gases
0253	90° 1/4" Male NPT to Male B-Size, RH	Oxygen
0254	90° 1/4" Male NPT to Male B-Size, LH	Acet/F. Gases
0123	1/4" Male NPT to Female Swivel B-Size, RH	Oxygen
0124	1/4" Male NPT to Female Swivel B-Size, LH	Acet/F. Gases
0125	1/4" Male NPT to Female Swivel A-Size, RH	Oxygen
0126	1/4" Male NPT to Female Swivel A-Size, LH	Acet/F. Gases
0153	Female Swivel B-Size to 1/4" Male NPT, RH	Oxygen
0154	Female Swivel B-Size to 1/4" Male NPT, LH	Acet/F. Gases
0234	1/4" Female NPT to Female Swivel B-Size, RH	Oxygen
0235	1/4" Female NPT to Female Swivel B-Size, LH	Acet/F. Gases
0244	1/4" Female NPT to Male B-Size, RH	Oxygen
0245	1/4" Female NPT to Male B-Size, LH	Acet/F. Gases
0103	Male A-Size to Female B-Size, RH	Oxygen
0104	Male A-Size to Female B-Size, LH	Acet/F. Gases
0105	Male B-Size to Female A-Size, RH	Oxygen
0106	Male B-Size to Female A-Size, LH	Acet/F. Gases

Part No.	Description	Size	Gas
14-0	Swivel to 1/4" ID Hose, RH	A-Size	Oxygen
0014	Swivel to 1/4" ID Hose, LH	A-Size	Acet/F. Gases
24-0	Swivel to 1/4" ID Hose, RH	B-Size	Oxygen
0024	Swivel to 1/4" ID Hose, LH	B-Size	Acet/F. Gases

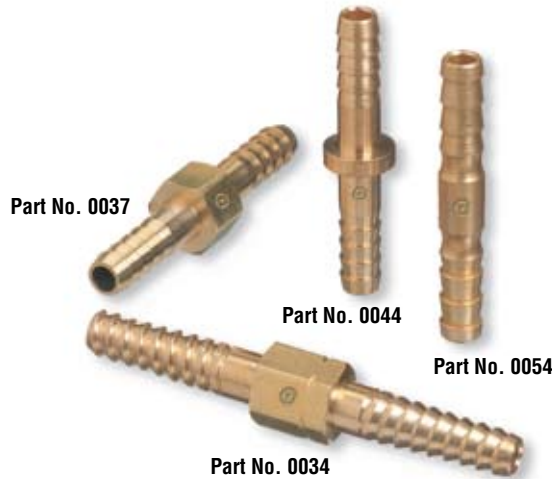
Part No.	Description
0544	Male 1/8" NPT to 3/16" ID Hose
0545	Male 1/8" NPT to 1/4" ID Hose
0548	Male 1/8" NPT to 1/8" ID Hose
0540	Male 1/4" NPT to 3/16" ID Hose
0541	Male 1/4" NPT to 1/4" ID Hose
0542	Male 1/4" NPT to 5/16" ID Hose
0543	Male 1/4" NPT to 3/8" ID Hose
0549	Male 1/4" NPT to 1/8" ID Hose
0539	Male 3/8" NPT to 3/8" ID Hose
0537	Male 3/8" NPT to 1/4" ID Hose
C-42	Male 1/2" NPT to 1/2" ID Hose
0551	Female 1/8" NPT to 3/16" ID Hose
0552	Female 1/8" NPT to 1/4" ID Hose
0554	Female 1/4" NPT to 3/16" ID Hose
0555	Female 1/4" NPT to 1/4" ID Hose
0556	Female 1/4" NPT to 5/16" ID Hose
0557	Female 1/4" NPT to 3/8" ID Hose
0558	Female 3/8" NPT to 1/4" ID Hose

Part No.	Description	Gas
0040	Male B-Size, RH to 3/16" ID Hose Barbed	Oxygen
40-B	Male B-Size, RH to 1/4" ID Hose Barbed	Oxygen
0041	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

## Hose Splicers, Torch Tip Nuts & Chain and Plug Assemblies

### Hose Splicers, Brass

Pressures to 200 PSIG (1400 kPa)



Part No.	Description	Style
0035	3/16" to 3/16" ID Hose	Spiral Hex
0034	1/4" to 1/4" ID Hose	Spiral Hex
0238	3/8" to 3/8" ID Hose	Spiral Hex
0038	3/16" to 3/16" ID Hose	Barb Hex
0039	3/16" to 1/4" ID Hose	Barb Hex
0037	1/4" to 1/4" ID Hose	Barb Hex
0139	5/16" to 5/16" ID Hose	Barb Hex
0149	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
0045	3/16" to 3/16" ID Hose	Barb Round
0044	1/4" to 1/4" ID Hose	Barb Round
0046	5/16" to 5/16" ID Hose	Barb Round
0047	3/8" to 3/8" ID Hose	Barb Round
0048	1/2" to 1/2" ID Hose	Barb Round
0053	1/8" to 1/8" ID Hose	Barb No Stop
0055	3/16" to 3/16" ID Hose	Barb No Stop
0054	1/4" to 1/4" ID Hose	Barb No Stop
0056	5/16" to 5/16" ID Hose	Barb No Stop
0057	3/8" to 3/8" ID Hose	Barb No Stop
C-37	1/2" to 1/2" ID Hose	Barb No Stop

### Torch Tip Nut Replacements/Tip Nuts for Cutting Torches & Attachments



Part No.	Thread Size	Material	Replaces
TN1-1	7/8" - 20	Brass	Harris 2459
TN1-2	7/8" - 20	Brass	Harris 6259-B
TN2-1	15/16" - 18	Brass	Victor 0309-0018
TN2-2	7/8" - 20	Brass	Victor 0309-0003
TN3-1	7/8" - 20	Brass	Linde 33-A-59
TN4-1	7/8" - 20	Brass	Airco 831-2259

### Chain & Plug Assemblies, Brass

Pressure to 200 PSIG (1400 kPa)



Part No.	Description	Size	Service
<b>B-Size (9/16"-18 thread) • C-Size (7/8"-14 thread) • D-Size (1 1/4"-12 thread)</b>			
0927	2-Piece Assembly, Gas Tight Seal, Female Oxygen RH Nut & Plug	B-Size	CGA-022
0928	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-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-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



## Inert Arc Fittings for MIG/TIG Torches

### Inert Arc Nuts, Brass (TIG)

Pressures to 200 PSIG (1400 kPa)



Part No.	Description	Size	Service
<b>A-Size (3/8"-24) *B-Size (5/8"-18) *C-Size (7/8"-14)</b>			
0009	Inert Gas, Female RH	A-Size	CGA-020
0010	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
<b>Use Above With AW-13, AW-24, A-Size Cable Nipples</b>			
AW-7	Air-Water, Female RH	B-Size	-
<b>Use Above With AW-30 and AW-32 Couplers</b>			
AW-14	Water, Male LH	B-Size	CGA-033
AW-14A	Inert Gas, Male RH	B-Size	CGA-032
<b>Use Above With All B-Size Inert Arc Nipples</b>			
AW-10	Water, Male LH	C-Size	CGA-035
AW-10A	Inert Gas, Male RH	C-Size	CGA-034
<b>Use Above With All C-Size Power Cable Nipples</b>			

### Inert Arc Nipples, Brass (TIG)

Pressures to 200 PSIG (1400 kPa)



Part No.	Description	Size
<b>A-Size (3/8"-24) *B-Size (5/8"-18)</b>		
AW-24	2" Long, Barb for 1/8" ID Hose	A-Size
AW-13	2" Long, Barb for 3/16" ID Hose	A-Size
<i>Use Above with 9, 10, AW-21, AW-21A Nuts</i>		
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
<i>Use Above with AW-14, AW-14A, AW-7 Nuts</i>		
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
<b>Male to Female Air-Water Connections for Inert ARC Welding</b>		
<b>A-Size (3/8-24") *B-Size (5/8-18") *C-Size (7/8-14")</b>		
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	B-Size
AW-28A	9/16"-18 Male to B-Size Female RH	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

### Inert Arc Hose & Torch Adaptors, Brass

Pressures to 200 PSIG (1400 kPa)



Part No.	Description
<b>B-Size (5/8"-18)</b>	
AW-403	RHM to CGA-022 9/16"-18 RHM
AW-404	LHM to B-Size 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	RHM 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-432	RHM to CGA-022 9/16"-18 RHF
AW-432B	9/16" - 18 F to 5/8" - 18 F
AW-433	RHM to CGA-023 9/16"-18 LHF

### Inert Arc Hose Couplers, Brass

Pressures to 200 PSIG (1400 kPa)



Part No.	Description	Size
<b>A-Size (3/8"-24) *B-Size (5/8"-18) *C-Size (7/8"-14)</b>		
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

### Inert Arc Air-Water Couplers, Brass

Pressures to 200 PSIG (1400 kPa)



Part No.	Description	Size
AW-30	Male RH to B-Size Male RH	B-Size
AW-32	1/4"-18 NPT Male to B-Size Male RH	B-Size
AW-34	Male RH to 9/16"-18 Male RH	B-Size
AW-35	Male LH to 9/16"-18 Male LH	B-Size

### Inert Arc Power Cable Adaptors, Brass (TIG)

Pressures to 200 PSIG (1400 kPa)



Part No.	Description	Size
<b>A-Size (3/8"-24) *B-Size (5/8"-18) *C-Size (7/8"-14)</b>		
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-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

Pressures To 200 PSIG (1400 kPa)



Part No.	Description	Size
<b>One-Piece Power Cable Nipple &amp; Tube Connector for Crimping A-Size (3/8"-24) • B-Size (5/8"-18)</b>		
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
<b>B-Size Nipples with Copper Tube for Crimping Cable, use with AW-14 &amp; AW-14A Nut B-Size (5/8"-18)</b>		
AW-49	.219" OD Copper Tube, 2-3/8" Long Overall	B-Size
<b>C-Size Nipples for Crimping Cable, use with AW-10 &amp; AW-10A Nut C-Size (7/8"-14)</b>		
AW-23	.312" OD Copper Tube, 3-11/32" Long	C-Size
AW-26	.225" OD Brass Tube, 1.45" Long	C-Size
AW-52	.375" OD Copper Tube, 3-3/8" Long	C-Size
AW-54	.312" OD Copper Tube, 3-1/32" Long	C-Size

### Inert Arc Power Cable Nut, Nipples & Copper Tube Assemblies

Pressures To 200 PSIG (1400 kPa)



Part No.	Description
<b>Assemblies with Copper Tube for Crimping Cable Copper or Brass Nipple &amp; Swivel Nut</b>	
AW-22	Nipple & .312 OD Copper Tube with Brass A-Size LH Swivel Nut, 2-13/16" Long
AW-22A	Nipple & .312 OD Copper Tube with Brass A-Size RH Swivel Nut, 2-13/16" Long
AW-25	Nipple & .312 OD Copper Tube with Brass A-Size Female Swivel Nut, 2-5/8" Long
AW-51	Nipple & .375" OD Copper Tube with 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-55	Nipple & .312" OD Copper Tube with 7/16"-20 Female Nut, 2" Long
AW-56	Nipple & .375" OD Copper Tube with 5/8"-18 RH Male Nut (AW14-A), 3-1/4" Long



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**Pigtails and Related Manifold Equipment**

## "Y" Connections and Valves

### "Y" Connections, Brass

Pressures to 200 PSIG (1400 kPa)



Part No. 0101

Part No. 0401

Part No.	Description	Service
<b>A-Size (3/8"-24 Thread) *B-Size (9/16"-18 Thread)</b>		
0101	Oxygen RH: B-Size F Inlet to B-Size M Outlets	CGA-022
0102	Acetylene/F. Gases LH: B-Size F Inlet to B-Size M Outlets	CGA-023
0113	Oxygen RH: A-Size F Inlet to A-Size M Outlets	CGA-020
0114	Acetylene/F. Gases LH: A-Size F Inlet to A-Size M Outlets	CGA-021
0401	Inert Gas RH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-032
0402	Water, Industrial Air LH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-033
<b>Pressures to 3000 PSIG (20,700 kPa)</b>		
111-5	Short "Y" Connection: 1/4" NPT F Inlet to 1/4" NPT F Outlets	—
111-6	Short "Y" Connection: 1/8" NPT F Inlet to 1/4" NPT F Outlets	—

### Valved "Y" Connections, Brass

Pressures to 200 PSIG (1400 kPa)

- For use of two cutting and/or two welding torches at once
- Precision shut off valves



Part No. 0111

Part No.	Description	Service
<b>A-Size 3/8"-24 Thread *B-Size 9/16"-18 Thread</b>		
0111*	Oxygen RH: B-Size F Inlet to B-Size M Outlets	CGA-022
0112*	Acetylene/F. Gases LH: B-Size F Inlet to B-Size M Outlets	CGA-023
0115	Oxygen RH: A-Size F Inlet to A-Size M Outlets	CGA-020
0116	Acetylene/F. Gases LH: A-Size F Inlet to A-Size M Outlets	CGA-021
0411	Inert Gas RH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-032
0412	Water, Industrial Air LH: 5/8"-18 M Inlet to 5/8"-18 F Outlets	CGA-033

\*Sold in retail clamshell packaging

### Valves, Brass

Pressures to 200 PSIG (1400 kPa)



Part No. WSV-1-1P

Part No.	Description	Service	Gas
<b>1/2" NPT Male Inlet • 7/8"-14 CGA Male Outlet</b>			
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

### Brass Body Valves for Non-Corrosive Gases

Pressures to 200 PSIG (1400 kPa)



Part No. 0205

Part No. 215-AR

Part No.	Service	Inlet	Outlet
<b>B-Size (9/16"-18 Thread)</b>			
0203	Oxygen CGA-022	B-Size Female Swivel Nut RH	B-Size Male RH
0204	Acetylene/F. Gases CGA-023	B-Size Female Swivel Nut LH	B-Size Male LH
0205	Oxygen CGA-022	1/4" NPT Male	B-Size Male RH
0206	Acetylene/F. Gases CGA-023	1/4" NPT Male	B-Size Male LH
0207	Oxygen CGA-022	B-Size Male RH	1/4" NPT Male
0208	Acetylene/F. Gases CGA-023	B-Size Male LH	1/4" NPT Male
208-F	Acetylene/F. Gases CGA-023	B-Size Male LH	1/4" NPT Female
0212	Acetylene/F. Gases CGA-023	B-Size Male LH	1/8" NPT Female
0209	Oxygen CGA-022	B-Size Male RH	B-Size Male RH
0210	Acetylene/F. Gases CGA-023	B-Size Male LH	B-Size Male LH
215-AR	Inert Gas CGA-032	1/4" NPT Male	5/8"-18 Female RH
215-AL	Inert Gas CGA-033	1/4" NPT Male	5/8"-18 Female LH
215-FR	Inert Gas CGA-032	5/8"-18 Male Swivel Nut RH	5/8"-18 Female RH
<b>Pressures to 3000 PSIG (20,700 kPa) All Non-Corrosive Gases</b>			
211-E		1/8" NPT Male	1/8" NPT Male
0211		1/4" NPT Male	1/4" NPT Male
0217		1/4" NPT Male	1/4" NPT Female
0218		1/4" NPT Female	1/4" NPT Male
218-D		1/4" NPT Female	1/4" NPT Female

## Valves / Pipe Thread Fittings

### Cartridge Valves, Stainless Steel

1/4" NPT M x 1/4" NPT M



110 Body Style

Part No.	Body & Seat Style	Description	Max PSIG
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
<b>Replacement Cartridges</b>			
SS-CS	Metal-To-Metal Seat Cartridge		
SS-CK	Soft Seat Cartridge		

### Safety Relief Valves, Brass

- For gaseous or liquid nitrogen, oxygen, air and other cryogenic fluids



Part No. WMV-4-125

Part No.	Description
<b>1/4" NPT Inlet Relief Valves</b>	
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

Part No.	Description
<b>1/2" NPT Inlet Relief Valves</b>	
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-8-7	Pipe-away Adaptor, All Models

### Pipe Thread Crosses



Part No. BCR-4LP



Part No. BCR-4HP

Part No.	Description	Material	Max PSIG (kPa)
<b>4-Way Female:</b>			
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)

### Pipe Thread Tees

Part No. BFT-4HP



Part No. BMT-4LP



Part No. BST-4LP



Part No.	Description	Material	Max PSIG (kPa)
<b>3-Way Female:</b>			
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)
<b>Female x Male:</b>			
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 Fittings

### Pipe Thread Reducer Couplings, Female to Female

Brass, Pressures to 3000 PSIG (20,700 kPa)



Part No. BF-4-2HP

Part No.	Description	Length	Hex
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 Adaptors, Female to Male

To 3000 PSIG (20,700 kPa)



Part No. BA-4-2HP

Part No.	Description	Material	Length	Hex
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"

### Pipe Thread Hex Nipples, Male to Male



Part No. B-4SS

Part No. B-4HP

Part No.	Description	Material	Length	Hex
<b>To 3000 PSIG (20,700 kPa):</b>				
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"
<b>To 6000 PSIG (41,300 kPa):</b>				
B-4SS	1/4" NPT x 1/4" NPT	St. Steel	1.437"	5/8"

### Pipe Thread Couplings, Female to Female



Part No. BF-4HP

Part No. BF-4SS

Part No.	Description	Material	Length	Hex
<b>To 3000 PSIG (20,700 kPa)</b>				
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"
<b>To 6000 PSIG (41,300 kPa)</b>				
BF-4SS	1/4" NPT x 1/4" NPT	St. Steel	1.187"	3/4"

### Pipe Thread Reducer Bushings, Male to Male

Pressures to 3000 PSIG (20,700 kPa)



Part No. B-4-2HP

Part No.	Description	Material	Length	Hex
B-4-2HP	1/4" NPT x 1/8" NPT	Brass	1.250"	5/8"
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 Extension Adaptors, Female to Male

Pressures to 3000 PSIG (20,700 kPa)



Part No. BE-4-3HP

Part No.	Description	Material	Length	Hex
BE-2-25HP	1/8" NPT	Brass	2-1/2"	9/16"
BE-4-3HP	1/4" NPT	Brass	3"	3/4"

## Pipe Thread Fittings

### Pipe Thread Bushings, Female to Male

Pressures to 3000 PSIG (20,700 kPa)



Part No. BB-4-8HP

Part No.	Description	Material	Length	Hex
BB-2-4HP	1/8" NPT x 1/4" NPT	Brass	.875"	5/8"
BB-2-6HP	1/8" NPT x 3/8" NPT	Brass	.906"	11/16"
BB-4-6HP	1/4" NPT x 3/8" NPT	Brass	.968"	3/4"
BB-4-8HP	1/4" NPT x 1/2" NPT	Brass	1.125"	7/8"
BB-4-12HP	1/4" NPT x 3/4" NPT	Brass	1.168"	1-1/8"
BB-6-8HP	3/8" NPT x 1/2" NPT	Brass	1.125"	7/8"
BB-8-12HP	1/2" NPT x 3/4" NPT	Brass	1.168"	1-1/8"

### Pipe Thread Caps & Plugs



Part No. P-4HP

Part No. PC-4HP

Part No.	Description	Material	Hex
<b>Pressures to 3000 PSIG (20,700 kPa)</b>			
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"
<b>Pressures to 6000 PSIG (41,300 kPa)</b>			
P-4SS	Hex Plug, 1/4" NPT	Stainless Steel	5/8"

### Pipe Thread Nipples, Male

Pressures to 3000 PSIG (20,700 kPa)



BN-4-20HP

Part No.	Description	Material	Length
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"

### Pipe Thread Elbows



Part No. BL-4-4HP

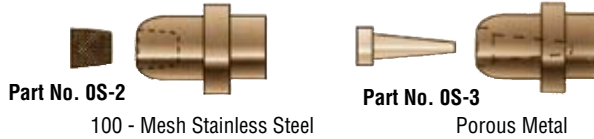
Part No. BSL-4HP

Part No. BEL-4HP

Part No.	Description	Material	Max PSIG (kPa)
<b>(90° Female to Female NPT)</b>			
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)
<b>(90° Female to Male NPT)</b>			
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)
<b>(45° Female to Male NPT)</b>			
BSL-4-4LP	1/4" x 1/4"	Brass	1000 (6900)
BSL-4HP	1/4" x 1/4"	Brass	3000 (20,700)

## Regulator Inlet Filters & Rings / Nipples

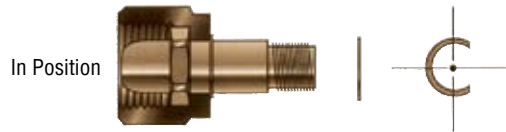
### Filters for Regulator Inlet Nipples



Part No.	Description
OS-2	100 Mesh Stainless Steel: 140 Microns
OS-3	Porous Metal: Nickel Plated Bronze, 45 Microns

\*May be used with all stainless steel and brass nipples, except for CGA-320 nipples

### Retainer Ring for Selected Nipples



Part No.	Description
M00-5	Nipple Retainer Ring, Steel

\*For use only in specially grooved nipples.  
Ring prevents nut from sliding down to the nipple.

### Regulator Nuts & Nipples, Brass

Pressures to 3000 PSIG (20,700 kPa)



Part No.	Part	Description	Service
<b>CGA - 110 for Gases in Small Cylinders:</b>			
110-3SF	Nipple	Brass, 1/8" NPT, 1-3/4" Long, .3125-32 UNEF-2A-RH-EXT	CGA-110
<b>CGA - 170 for Non-Corrosive Gases in Small Cylinders:</b>			
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
<b>CGA - 180 for Non-Corrosive Gases in Small Cylinders:</b>			
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	Teflon	CGA-180
180-5	Adaptor	Brass, CGA-180 to 1/4" NPT Male	CGA-180

### Regulator Nuts & Nipples, Brass & Stainless Steel

Pressures to 500 PSIG (3400 kPa)



Part No.	Part	Description	Service
<b>CGA - 200 for "MC" Tank Acetylene:</b>			
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
<b>CGA - 240 for Ammonia:</b>			
SS-24-3	Nipple	St. Steel, 1/4" NPT, 3-1/4" Long	CGA-240

### Regulator Nuts & Nipples, Brass

Pressures to 3000 PSIG (20,700 kPa)



Part No.	Part	Description	Service
<b>CGA - 280 for Medical Breathing Mixtures:</b>			
0284	Nut	Brass, .750"-14 NGO, RH Female	CGA-280
0283	Nipple	Brass, 1/4" NPT, 2" Long	CGA-280
<b>CGA - 296 for Industrial Mixtures of Oxygen:</b>			
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 Inlet Nuts & Nipples

### Regulator Nuts & Nipples, Brass

Pressures to 500 PSIG (3445 kPa)



Part No.	Part	Description	Service
<b>CGA - 300 for Commercial Acetylene:</b>			
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 Nuts & Nipples, Brass & Stainless Steel

Pressures to 3000 PSIG (20,700 kPa)



Part No.	Part	Description	Service
<b>CGA - 320 for Carbon Dioxide:</b>			
CO-2	Nut	Brass, .830"-14 NGO RH Female	CGA-320
CO-3	Nipple	Brass, 1/4" NPT, 2" Long	CGA-320
CO-4	Nipple	Brass, 1/4" NPT, 2-1/2" Long	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	Teflon, Snap-In	CGA-320
CO-5	Washer	Fiber, Flat	CGA-320
CO-6	Washer	Teflon, Flat	CGA-320
CO-6N	Washer	Nylon, Snap-In	CGA-320

### Regulator Nuts & Nipples, Brass & Stainless Steel

Pressures 3001 PSIG to 5500 PSIG (37,950 kPa)



Part No.	Part	Description	Service
<b>CGA - 347 for Air/High Pressure:</b>			
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

## Regulator Inlet Nuts & Nipples

### Regulator Nuts & Nipples, Brass & Stainless Steel

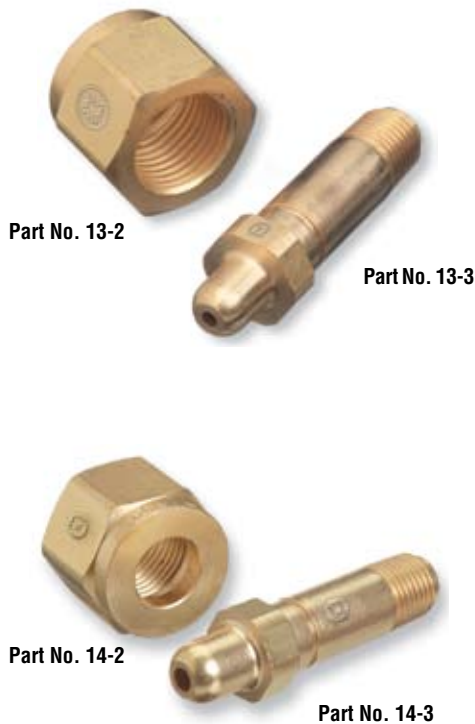
Pressures to 3000 PSIG (20,700 kPa)



Part No.	Part	Description	Service
<b>CGA - 350 for Hydrogen/Natural Gas:</b>			
0082	Nut	Brass, .830"-14 NGO, LH Female	CGA-350
0083	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
0087	Nipple	Brass, 1/4" NPT, 3" Long	CGA-350
0682	Nut	Brass, Hand-Tight, LH Female	CGA-350
682P	Nut	Plastic Grip, Hand-Tight, LH Female	CGA-350
0683	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
<b>CGA - 500 for Medical Mixtures:</b>			
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)



Part No.	Part	Description	Service
<b>CGA - 326 for Nitrous Oxide:</b>			
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
<b>CGA - 330 for Non-Corrosive Gases (Brass) or Corrosive Gases (Stainless Steel):</b>			
0334	Nut	Brass, .830"-14 NGO, LH Female	CGA-330
0333	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
0335	Washer	Teflon	CGA-330
CO-6N	Washer	Nylon, Snap-In	CGA-330
<b>CGA - 346 for Air:</b>			
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, 2-1/2" Long w/Check	CGA-346
614-2	Nut	Long 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"	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 Inlet Nuts & Nipples

### Regulator Nuts & Nipples, Brass & Stainless Steel

Pressures to 500 PSIG (3400 kPa)



Part No.	Part	Description	Service
<b>CGA - 510 for POL Acetylene:</b>			
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
<b>CGA - 520 for "B" Tank - Acetylene:</b>			
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 3000 PSIG (20,700 kPa)



Part No.	Part	Description	Service
<b>CGA - 540 for Oxygen:</b>			
0062	Nut	Brass, .908"-14 NGO, RH Female	CGA-540
63-CV	Nipple	Brass, 1/4" NPT, 2" Long w/CV	CGA-540
0063	Nipple	Brass, 1/4" NPT, 2-1/6" Long	CGA-540
0066	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-540
0069	Nipple	Brass, 1/4" NPT, 3" Long	CGA-540
0067	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
0662	Nut	Brass, Hand-Tight, RH Female	CGA-540
662P	Nut	Plastic Grip, Hand-Tight, RH Female	CGA-540
0663	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
<b>CGA - 555 for Butane, Propane (Liquid Withdrawl):</b>			
0072	Nut	Brass, .908"-14 NGO, LH Female	CGA-555
0073	Nipple	Brass, 1/4" NPT, 2-1/16" Long	CGA-555
0076	Nipple	Brass, 1/4" NPT, 2-1/2" Long	CGA-555
0672	Nut	Brass, Hand-Tight, LH Female	CGA-555
672-P	Nut	Plastic Grip, Hand-Tight, LH Female	CGA-555
0673	Nipple	Hand-Tight, 1/4" NPT, 2-1/2" Long	CGA-555
673-KPT	Tip	Soft Tip Replacement	CGA-555
<b>CGA - 577 for Oxygen:</b>			
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 Inlet Nuts & Nipples

### Regulator Nuts & Nipples, Brass & Stainless Steel

Pressures to 3000 PSIG (20,700 kPa)



Part No. 15-4

Part No. 0092

Part No.	Part	Description	Service
<b>CGA - 580 for Argon, Helium &amp; Nitrogen:</b>			
0092	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
15-8M3	Nipple	Recessed For 3/8" OD Tube	CGA-580
0692	Nut	Brass, Hand-Tight, RH Male	CGA-580
692P	Nut	Plastic Grip, Hand-Tight, RH Male	CGA-580
615-8M1T	Nipple	Hand-Tight, Recessed for 1/4" Tube w/Soft Tip	CGA-580
615-0	O-Ring	Replacement O-Ring	CGA-580
615-PT	Tip	Soft Tip Replacement	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

### Regulator Nuts & Nipples, Brass & Stainless Steel

Pressures to 3000 PSIG (20,700 kPa)



Part No. 0093

Part No. 15-3

Part No. 0604

Part No. 0603

Part No.	Part	Description	Service
<b>CGA - 590 for Industrial Air:</b>			
0093	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
0693	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
<b>CGA - 660 for Refrigerant Gases:</b>			
0604	Nut	Brass, 1.035"-14 NGO, RH Female	CGA-660
0603	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
0665	Washer	Teflon	CGA-660

## Regulator Inlet Nuts & Nipples

### Regulator Nuts & Nipples, Stainless Steel

Pressures to 500 PSIG (3400 kPa)

Part No.	Part	Description	Service
<b>CGA - 670 for Mixtures:</b>			
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

### Regulator Nuts & Nipples, Stainless Steel

Pressures to 7500 PSIG (41,300 kPa)

Part No.	Part	Description	Service
<b>CGA - 677 for Inert Gases:</b>			
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

### Regulator Nuts & Nipples, Brass

Pressures 3000 PSIG (20,700 kPa) to 5500 PSIG (37,950 kPa)



Part No.	Part	Description	Service
<b>CGA - 680 for Inert Gases:</b>			
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
<b>CGA - 695 for Flammable Gases:</b>			
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 4000 PSIG (27,600 kPa) to 5500 PSIG (37,950 kPa)

Part No.	Part	Description	Service
<b>CGA - 701 for Inert Gases:</b>			
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

### Regulator Nuts & Nipples, Brass

Pressures 5500 PSIG (37,950 kPa) to 7500 PSIG (51,750 kPa)

Part No.	Part	Description	Service
<b>CGA - 702 for Air:</b>			
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, Stainless Steel

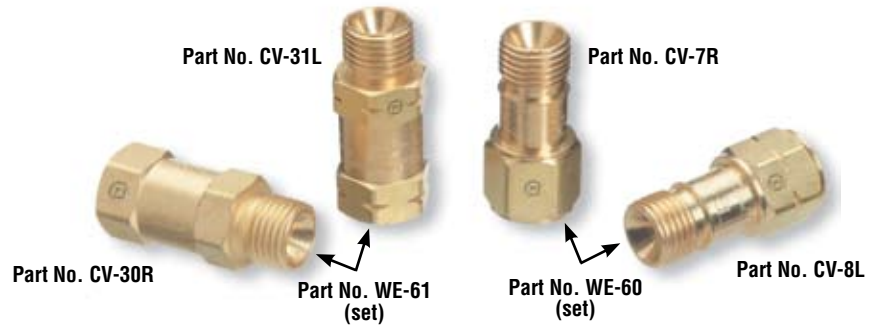
Pressures to 3000 PSIG (20,700 kPa)

Part No.	Part	Description	Service
<b>CGA - 705 for Ammonia:</b>			
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
0705	Washer	Teflon	CGA-705

## 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
<b>Torch Model, A-Size (3/8"-24)</b>		
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
<b>Torch Model B-Size (9/16"-18)</b>		
CV-7R	Oxygen RH, B-Size Male to B-Size Female Nut, to 125 PSIG (800 kPa)	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	-

\* Sold in retail clamshell packaging

### 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
<b>Regulator Bushing Adaptor Model, B-Size (9/16"-18)</b>		
CV-30R	Oxygen RH, B-Size Female Nut to B-Size Male, to 125 PSIG (800 kPa)	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

Part No	Description	Inlet	Outlet	Material	Max PSIG
<b>Inline NPT Check Valves, Heavy Duty</b>					
CV-4M	1/4" NPT	Male	Male	Brass	3000
CV-6M	3/8" NPT	Male	Male	Brass	3000
CVF-4M	1/4" NPT	Female	Male	Brass	3000
CVM-4F	1/4" NPT	Male	Female	Brass	3000
CV-4MSS	1/4" NPT	Male	Male	St. Steel	6000
CVF-4MSS	1/4" NPT	Female	Male	St. Steel	6000
CVM-4FSS	1/4" NPT	Male	Female	St. Steel	6000

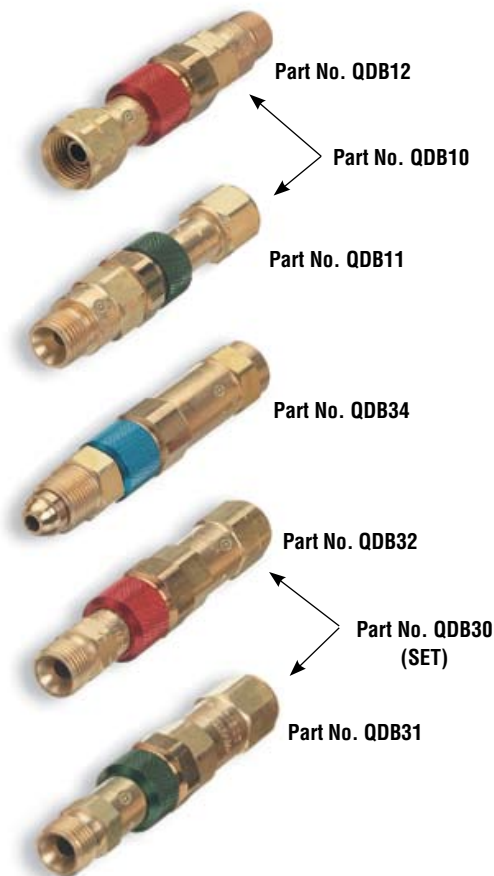
Part No.	Description	Service
<b>Regulator Outlet Bushing Model, B-Size (9/16"-18)</b>		
CV-32R	Oxygen RH, 1/4" NPT Male to B-Size Male, to 125 PSIG (800 kPa)	CGA-022
CV-33L	Fuel Gas LH, 1/4" NPT Male to B-Size Male, to 50 PSIG (345 kPa)	CGA-023
WE-62	Regulator Outlet Set Includes CV-32R & CV-33L	B-Size

Part No.	Description	Service
<b>Check Valve Adaptors, same as CGA Both Ends</b>		
CV-346	Air RH, Female	CGA-346
CV-540	Oxygen RH, Female	CGA-540

Part No.	Description
<b>1/4" NPT Inline Check Valves, to 200 PSI (1400 kPa)</b>	
CV-4	1/4" NPT Male to 1/4" NPT Male
CV-5	1/4" NPT Female to 1/4" NPT Male (Flow Male to Female)
CV-6	1/4" NPT Male to 1/4" NPT Female (Flow Female to Male)

## Quick Connects Sets & Components / Flashback Arrestors

### Quick Connects Sets & Components



### Quick Connect Sets

Part No.	Description	Components
QDB10*	Torch-to-Hose Set w/Check Valves	QDB11–Fuel Gas QDB12–Oxygen/Inert
QDB20*	Hose-to-Hose Set w/Check Valves	QDB21–Fuel Gas QDB22–Oxygen/Inert
QDB30*	Regulator-to-Hose w/Check Valves	QDB31–Fuel Gas QDB32–Oxygen

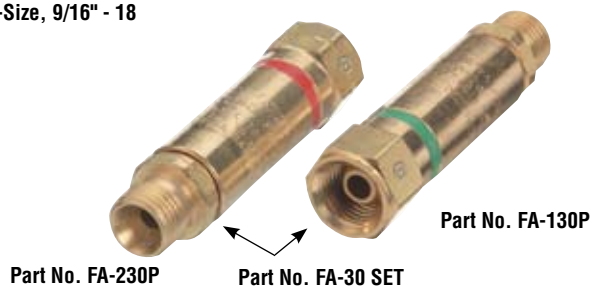
### Quick Connect Individual Units

Part No.	Description	Components
<b>Torch-to-Hose</b>		
QDB11*	Fuel Gas w/ Check Valve	QDB200–Male Plug QDB201–Female Socket
QDB12*	Oxygen/Inert Gas w/Check Valve	QDB100– Male Plug QDB101– Female Socket
<b>Hose-to-Hose</b>		
QDB21*	Fuel Gas w/ Check Valve	QDB205–Male Plug QDB201–Female Socket
QDB22*	Oxygen/Inert Gas w/Check Valve	QDB105–Male Plug QDB101– Female Socket
<b>Regulator-to-Hose</b>		
QDB31*	Fuel Gas w/Check Valve	QDB205–Male Plug QDB206–Female Socket
QDB32*	Oxygen w/Check Valve	QDB105–Male Plug QDB106–Female Socket
QDB33*	Inert Gas–Regulator-to-Hose	QDB300–Male Plug QDB301–Female Socket
QDB34*	Inert Gas–Hose-to-Machine	QDB302–Male Plug QDB303–Female Socket

\* Sold in retail clamshell packaging

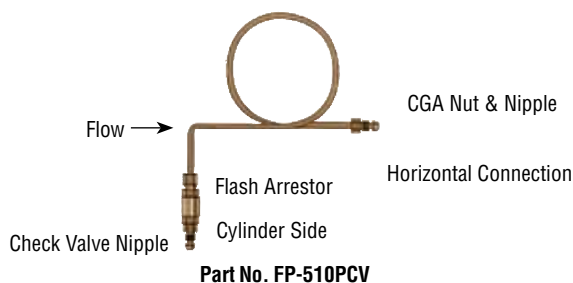
### Flashback Arrestors

B-Size, 9/16" - 18



Part No.	Description
<b>Flashback Arrestor Sets</b>	
FA-10	Torch Style
FA-30	Regulator Adaptor Style
FAU-10	Torch Style
FAU-30	Regulator Adaptor Style
<b>Flashback Arrestor Components</b>	
FA-100P	Oxygen, Torch Style
FA-200P	Fuel Gas, Torch Style
FA-130P	Oxygen, Regulator Adaptor Style
FA-230P	Fuel Gas, Regulator Adaptor Style

### Manifold Pigtail with Flash Arrestors



Part No	W/CV	Description	Service
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.

## Quick Connect Sets / Flashback Arrestors

### Caliber™ Nickel Plated Flashback Arrestors

- Nickel plated brass for greater surface hardness and exceptional corrosion resistance.
- Soft seat Buna Nitrile O-ring connections for extended life and excellent seal integrity.
- Combined flame barrier and check valve in one device.
- Internal check valve designed to prevent reverse flow and accidental mixing of oxygen and fuel gases.
- 316 stainless steel flame trap stops flashback.
- Contains non-interchangeable, color coded sets for oxygen (green) and fuel gas (red).
- Maximum operating pressures are 15 PSIG for acetylene, 22 PSIG for other fuel gases, and 125 PSIG for oxygen.
- Rated flow capacity of 40 SCFH with a 5 PSIG pressure drop.
- Caliber includes bonus flashback safety CD, reusable case, and "Made Right in the U.S.A." sticker.
- 10" maximum cutting capacity.
- Reusable flashback arrestor, manual resetting not required.
- 100% factory flame and leak tested.
- UL Listed.



Part No.	Description
FAU10	Torch style
FAU30	Regulator style

### Safemates™ Nickel Plated Flashback Arrestors and Quick Connects

- Same as Caliber™ above.
- Includes spring loading locking mechanism which responds to fingertip action and achieves a gas tight seal.



Part No.	Description
QDF10	Torch to hose set w/ check valves (Oxy/Fuel Gas)
QDF30	Regulator to hose (Oxy/Fuel Gas)
QDFAU10	Torch
QDFAU30	Regulator

### Quickmates™ Nickel Plated Quick Connects

- Nickel plated brass for greater surface hardness and exceptional corrosion resistance.
- Contains non-interchangeable, color coded sets for oxygen (green) and fuel gas (red).
- Maximum operating pressures are 15 PSIG for acetylene, 50 PSIG for other fuel gases, and 125 PSIG for oxygen.
- Instant closure on reverse flow check valve 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 two additional check valves are used in conjunction with the Quickmates™ Quick Connects.
- UL Listed.



Part No.	Description
QDBU10	Set hose to torch
QDBU20	Set hose to hose
QDBU30	Set regulator to hose
QDBU33	Inert regulator to hose
QDBU34	Inert machine to hose

### Flash Arrestors—Bodies & CGA Adaptor Assemblies



Part No. FA-2CV



CGA-510 Nut & Check Valve Nipple      CGA-510 Cylinder Valve  
Part No. FA-510CV

Part No.	Description
<b>Arrestor Bodies</b>	
FA-2	1/4" NPT Female x 1/4" NPT Female
FA-2CV	with Female Inlet Nut Check Valve
FA-3	1/4" NPT Female x 1/4" NPT Male
FA-3CV	with Female Inlet Nut Check Valve
<b>Flashback Arrestor with Adaptor Assemblies</b>	
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



## Pressure Gauges

### Regulator Gauges & Gauge Crystals



Part No. G-2-4000W



Part No. G-2-30RLW

2" Dia. x 1/4" NPT		2-1/2" Dia. w 1/4" NPT	
Part No.	Gauge Type	Part No.	Gauge Type
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 Teflon Tape or Oxygen Safe Compound To Guard Against Leakage

### Cylinder Pressure Testing Gauges 2" Brass



Part No. G-584H

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
G-594	Industrial Air	4000	CGA-590

## Manifold Accessories

### Manifold Tubing



Coil

Part No.	OD & Wall	Length	Style	Material
CT-40	1/4" x .065	50 Feet	Coil	Copper, Annealed
CT-50	5/16" x .065	50 Feet	Coil	Copper, Annealed
CT-60	3/8" x .065	50 Feet	Coil	Copper, Annealed

### Manifold Tubing Adaptor Bushings



Part No. BT-2M2

Part No.	Description	Material
<b>Fits PH-1 Pigtail Handle</b>		
BT-2M1	1/4" NPTF x 1/4" OD Tubing Recess	Brass
BT-2M2	1/4" NPTF x 5/16" OD Tubing Recess	Brass
BT-2M3	1/4" NPTF x 3/8" OD Tubing Recess	Brass
BT-2M1-SS	1/4" NPTF x 1/4" OD Tubing Recess	St. Steel

### Manifold Pipe & Pipe Fittings, Brass Brass Alloy 360

Pressures to 3000 PSIG (20,700 kPa)



Pipe Nipple Length

Part No.	Length	Size	Part No.	Length	Size
<b>*(1/2" Pipe Wall Thickness - .196") *(3/4" Pipe Wall Thickness - .230")</b>					
<b>Threaded Pipe Nipples</b>					
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

Cleaned for Oxygen Service—Suitable For Acetylene Service

### Nominal Pipe Lengths Brass Alloy 360

Pressures to 3000 PSIG (20,700 kPa)



Short Pipe Length

Part No.	Length	Size	Part No.	Length	Size
<b>Cleaned for Oxygen</b>					
WHF-3-23	2"	1/2" Nom	WHF-3-20	6"	1/2" Nom
WHF-3-4	4"	1/2" Nom	WHF-3-6	8-1/2"	1/2" Nom
<b>Not Cleaned for Oxygen</b>					
WHF-3-120	6'	1/2" Nom	WHF-3-122	6'	3/4" Nom
WHF-3-17	12'	1/2" Nom	WHF-3-18	12'	3/4" Nom

Note: 12 Foot Lengths Must Ship Via Common Carrier

### Pipe Tees, Female

Pressures to 3000 PSI (20,700 kPa)

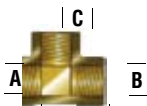


Figure 1

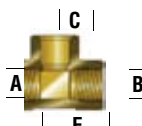


Figure 3

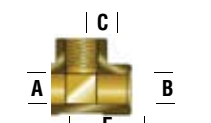


Figure 2 (Slip Through)

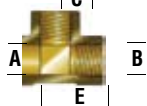


Figure 4



Figure 5 (Slip Through)

Part No.	Ref A	Ref B	Ref C & D	Ref E	Tees
WHF-4-7	1/2" NPT	1/2" NPT	1/2" NPT	2-1/2"	Figure 1
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

## Manifold Accessories

### Pipe Elbows, Female

Pressures to 3000 PSIG (20,700 kPa)

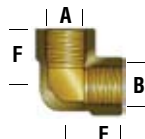


Figure 1

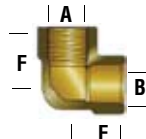


Figure 2

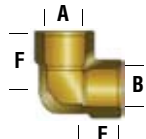


Figure 3

Part No.	Ref A	Ref B	Ref F	Elbows
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

.843"-.847" = 1/2" Pipe Slip\* 1.053"-1.057" = 3/4" Pipe Slip

### Pipe Crosses, Female

Pressures to 3000 PSIG (20,700 kPa)

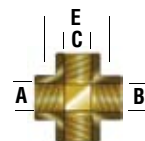


Figure 1

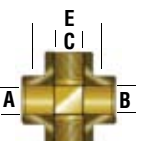


Figure 2 (Slip Through)

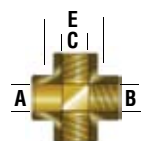


Figure 3

Part No.	Ref A	Ref B	Ref C & D	Ref E	Crosses
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

### Female NPT Outlet Adaptors for Manifold Pipeline, Brass & Stainless Steel

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



Part No.	Gas Service	Description	Material
<b>CGA Valve Outlets to Female Pipe Threads</b>			
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

**Manifold Accessories**

**Male NPT Outlet Adaptors for Manifold Pipeline, Brass & Stainless Steel**

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



Part No. WMS-1-53



Part No. B-71

Part No.	Gas Service	Description	Material
<b>Nitrous Oxide to 3000 PSIG:</b>			
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
<b>Air to 3000 PSIG:</b>			
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
<b>Air to 5500 PSIG:</b>			
B-348	CGA-347	.825"-14 NGO, RH Male to 1/2" NPT	Brass
<b>Hydrogen, Natural Gas, to 3000 PSIG:</b>			
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
<b>Medical Breathing Mix to 3000 PSIG:</b>			
B-500	CGA-500	.880"-14 NGO, RH Female to 1/4" NPT	Brass
<b>Acetylene, Butane, Propane to 500 PSIG</b>			
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
<b>Oxygen to 3000 PSIG:</b>			
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
<b>Butane, Propane (Liq/W) to 3000 PSIG:</b>			
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
<b>Oxygen 3000 PSIG to 4000 PSIG:</b>			
B-578	CGA-577	.960"-14 NGO, RH Male to 1/2" NPT	Brass
<b>Argon, Helium, Nitrogen, Etc to 3000 PSIG:</b>			
B-70	CGA-580	.965"-14 NGO, RH Female to 1/4" NPT	Brass
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
<b>Industrial Air to 3000 PSIG:</b>			
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
<b>Refrigerant Gases to 3000 PSIG:</b>			
B-660SS	CGA-660	1.030"-14 NGO, RH Male to 1/4" NPT	St. Steel
<b>Air, Argon, Helium, Etc to 6000 PSIG:</b>			
B-677SS	CGA-677	1.030"-14 NGO, LH Male to 1/4" NPT	St. Steel
B-678SS	CGA-677	1.030"-14 NGO, LH Male to 1/2" NPT	St. Steel
B-679SS	CGA-677	1.030"-14 NGO, LH Male to 3/4" NPT	St. Steel
<b>Inert Gases to 5500 PSIG:</b>			
B-682	CGA-680	1.045"-14 NGO, RH Female to 1/2" NPT	Brass

## Manifold Accessories

### Male NPT Outlet Adaptors for Manifold Pipeline, Brass & Stainless Steel

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



Part No. B-20

Part No.	Gas Service	Description	Material
<b>Medical Breathing Mix to 3000 PSIG:</b>			
WMS-1-64	CGA-280	.745"-14 NGO, RH Male, Check Valve Outlet to 1/2" NPT	Brass
<b>Commercial Acetylene to 500 PSIG:</b>			
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
<b>Carbon Dioxide to 3000 PSIG:</b>			
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

### Manifold Coupler Tees, Brass & Stainless Steel

With and Without Check Valves



Part No. T-82

Part No. T-92CV

Part No.	W/CV	Gas Service	Description	Material
<b>To 500 PSIG (3400 kPa)</b>				
T-16	T-16CV	CGA-300	Commercial Acet., RH Female	Brass
T-15	T-15CV	CGA-510	POL Acetylene, LH Male	Brass
<b>To 3000 PSIG (20,700 kPa)</b>				
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-92SS	-	CGA-580	Nitrogen, Argon, Helium, RH Male	St. Steel
T-93	T-93CV	CGA-590	Industrial Air, LH Male	Brass
<b>To 4000 PSIG (27,600 kPa)</b>				
T-577	-	CGA-577	Oxygen, RH Female	Brass
<b>To 5500 PSIG (37,950 kPa)</b>				
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 3-Way Outlet Coupler Tees, Brass



Part No. T3-540

Part No.	Gas Service	Description	Gas
<b>Pressures to 3000 PSIG (20,700 kPa)</b>			
T3-540	CGA-540	RH Male	Oxygen
T3-580	CGA-580	RH Female	Nitrogen, Argon, Helium

## Manifold Accessories

### Manifold 4-Way Outlet Coupler Tees, Brass

With and Without Check Valves



Part No. T4-540CV

Part No.	W/CV	Gas Service	Description	Gas
<b>With CGA Nut &amp; Nipple Pressures to 3000 PSIG (20,700 kPa)</b>				
T4-540	T4-540CV	CGA-540	RH Male	Oxygen
T4-580	—	CGA-580	RH Female	Nitrogen, Argon, Helium

### Manifold Block Assemblies, Brass



Part No. MB-70

Part No.	Description	Max PSIG	Gas	Gas Service
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

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

### Manifold Hex Blocks, Brass & Stainless Steel



Part No. MB-7



Part No. MB-6

Part No.	Description	MAX PSIG	Material
<b>2" Block, Six Outlets:</b>			
MB-6	1/4" NPT Female Side Outlets	3000	Brass
MB-6SS	1/4" NPT Female Side Outlets	6000	St. Steel
<b>2" Block, Seven Outlets:</b>			
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 / Manifold Accessories

### Chain & Plug Assemblies, Brass & Stainless Steel

- 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



Part No. 0992



Part No. CP-580

Part No.	Description	Material	Working Pressure	Gas	Service
<b>Two-Piece Assemblies</b>					
0927	9/16"-18 RH Female Nut & Plug	Brass	0-200	Oxygen	CGA-022
0928	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
0921	5/8"-18 RH Female Nut (AW-7) & Plug	Brass	0-200	Inert Arc	–
0922	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
0982	LH Female Nut & Plug	Brass	0-3000	Hydrogen, Nat. Gas	CGA-350
0915	LH Male Nut & Plug	Brass	0-500	POL Acetylene	CGA-510
0962	RH Female Nut & Plug	Brass	0-3000	Oxygen	CGA-540
0992	RH Male Nut & Plug	Brass	0-3000	Nitrogen, Argon, Helium	CGA-580
<b>One-Piece Assemblies</b>					
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

### Manifold One-Piece Dust Cap Assemblies

Not Gas-Tight



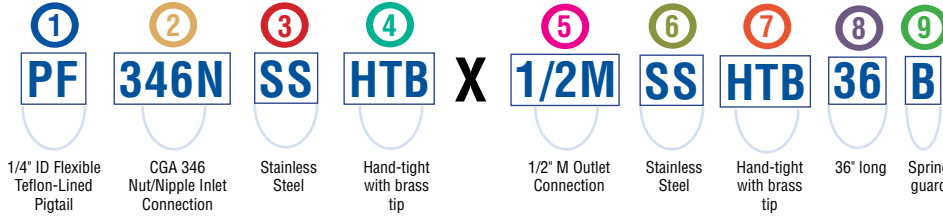
Part No. DC-540

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

## Special Order Pigtails & Rigid Pigtails

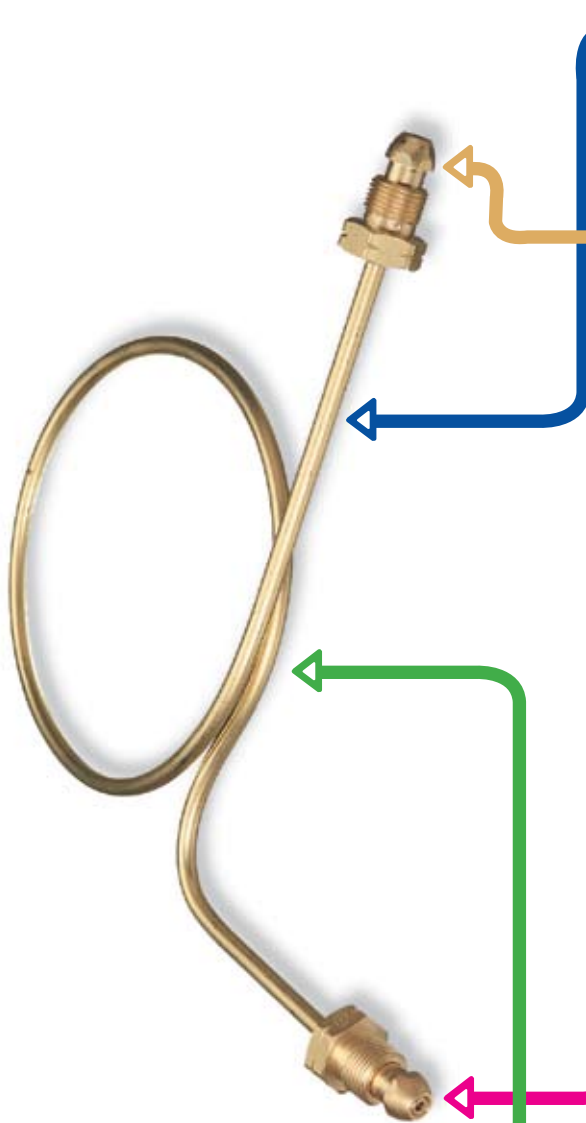
### Directions for Ordering Western Pigtail

- Use the example and chart below to develop specifications for special order pigtails. (Example below is not the equation for diagram shown)



### Model Options

Model	PSIG	kPa	Pigtail
P	3000	20,700	Rigid Copper
PB	3000	20,700	Rigid Brass
PS	6000	41,300	Rigid Stainless St.
PF	3000	20,700	Flexible Teflon-Lined
PFS	3000	20,700	Flexible Nylon-Lined
PF6	6000	41,300	Flexible Teflon-Lined



#### 1 Tube / Hose

Rigid Tube OD	Flex Hose ID
P4	1/4"
P	5/16"
P6	3/8"
PB	5/16"
PB6	3/8"
PS	1/4"
PF	1/4"
PFS	1/4"
PF6	229"

#### 2 Inlet End

Example Equation	Result
CGA No. + N = CGA Nut/Nipple	540N
CGA No. +B = CGA VO or Body	540B
Fraction +M or F = ANSI Pipe Thread	1/4F

#### 3 Inlet End

Metal	Symbol
Brass	Blank (None)
Plated steel	PL
St. steel	SS

#### 4 Optional Features

Symbol	Feature
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

X

#### 5 Outlet End

Example Equation	Result
CGA No. + N = CGA Nut/Nipple	540N
CGA No. + B = CGA VO or Body	540N
Fraction + M or F = ANSI Pipe Thread	1/4F

#### 6 Outlet End

Metal	Abbreviation
Brass	Blank (None)
Plated steel	PL
St. steel	SS

#### 7 Optional Features

Symbol	Feature
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

#### 8 Tube / Hose

Rigid Tube	Flex Hose
i.e.-27 = 27"	Lengths in 6" Increments
i.e.-36 = 36"	
i.e.-48 = 48"	i.e.-12 = 12"
Min = 8"	Min = 12"
Max = 300"	Max = 300"

#### 9 Bend / Swivel Options

##### Rigid Tube Bends

Symbol	Feature
COIL	Standard on 48"
DBL	Two 3" loops
SGL	6" loop standard on 27" P, PB
SPCL	Special bend, print required

##### Flex Hose Only

Symbol	Feature
B	Spring guard
B1	Spring guard w/ swivel inlet
B2	Spring guard w/ swivel outlet
B1.2	Spring guard w swivel, both ends



## Rigid Pigtails

### Hand-Tight Rigid Pigtails for Plant or Filling Stations with Brass Connections

Pressure to 3000 PSIG (20,700 kPa)



Part No. PHC-83

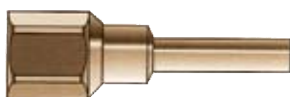
Part No.	Description	Gas Service
<b>Hand-Tight Nuts &amp; Nipples *5/16" x .065" Wall Copper Tube</b>		
PHC-320	RH F Carbon Dioxide	CGA-320
PHC-346	RH F Air	CGA-346
PHC-63	RH F Oxygen	CGA-540
PHC-83	LH F Hydrogen	CGA-350
PHC-92	RH M Nitrogen, Argon	CGA-580
PHC-93	LH M Industrial Air	CGA-590

### Stainless Steel Rigid Pigtails

#### with Stainless Steel Connections

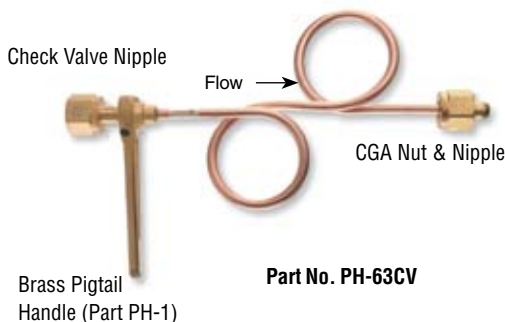
Pressures to 3000 PSIG (20,700 kPa)

- Type 304 Stainless Steel Tube
- TIG Welded For Long Service Life
- Type 316 Stainless Steel Welded Fittings
- Available In Straight Lengths
- Use With Either Stainless Steel or Brass Connections



Part No.	With CV	Description	Gas Service
<b>1/4" x .049 Wall St. Steel Tube Type 316 SS CGA Fittings</b>			
PS-320	--	Carbon Dioxide, RH F	CGA-320
PS-346	--	Air, RH F	CGA-346
PS-540	PS-540CV	Oxygen, RH F	CGA-540
PS-580	PS-580CV	Nitrogen, Argon, RH M	CGA-580

### Rigid Pigtails, Brass Forged Handle with Brass Connections



Part No. PH-63CV

Part No.	With CV	Description	Gas Service
<b>5/16" x .065" Wall Copper Tube, Double Loop Pressures to 3000 PSIG (20,700 kPa)</b>			
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
<b>5/16" x .065" Wall Brass Tube, Single Loop Pressures to 500 PSIG (3400 kPa)</b>			
PH-300	--	RH F Commercial Acetylene	CGA-300
PH-510	--	LH M POL Acetylene	CGA-510

### Manifold Rigid Pigtails, Copper Tubing with Brass Connections

Pressures to 3000 PSIG (20,700 kPa)



Part No. P-92CV

Part No.	With CV	Description	Gas Service
<b>Annealed 5/16" x .065" Wall Copper Tube</b>			
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

### Rigid Pigtails, Copper Tubing, Brass Shutoffs

#### with Brass Connections

Pressures to 3000 PSIG (20,700 kPa)



Part No. PV-92

Part No.	Description	Gas Service
<b>Annealed 5/16" x .065" Wall Copper Tube</b>		
PV-CO-3	RH F, Carbon Dioxide	CGA-320
PV-63	RH F, Oxygen	CGA-540
PV-92	RH M, Nitrogen, Argon, Helium	CGA-580

## Rigid and Flexible Pigtails

### Stainless Steel Rigid Pigtails

Pressures to 6000 PSIG (41,300 kPa)

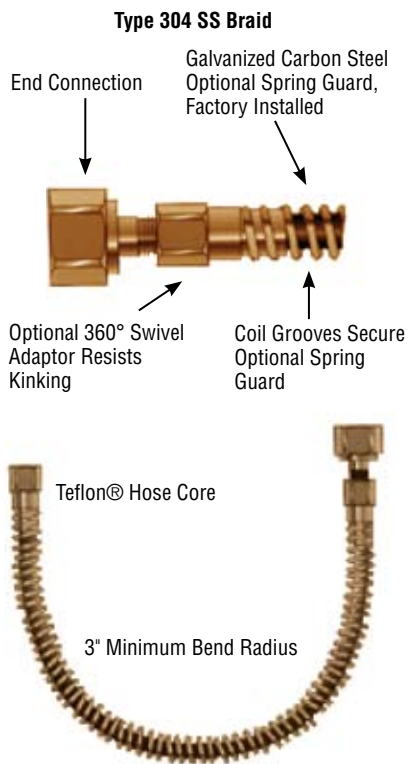


Part No. PS-4-36

Part No.	Description
<b>1/4" Female Both Ends</b>	
PS-4-36	36" Length, Straight
PS-4-48	48" Length, Straight
PS-4-60	60" Length, Straight

### Stainless Steel Flexible Pigtails, Brass Connections

- Sub assembly for special configurations
- Available in a variety of lengths
- 100% tested and cleaned for oxygen service



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

END CONNECTIONS  
From CGA Listing  
at Left

LENGTH  
18", 24", 36", 48"  
(Note: Lengths  
Do Not include  
Connections)

OPTIONS  
B = Spring Guard  
B1= Spring Guard,  
With Inlet  
Swivel Adaptor  
B2= Spring Guard,  
With Outlet  
Swivel Adaptor

Service	Part No.	Description	Working Pressure
-	PF-4	1/4" NPT F x 1/4" F with Spring Guard: Add B to End of Part No.	0-3000
<b>Complete Assemblies (add length in inches to Part No.)</b>			
CGA-296	PF-296 PF-296CV PF-296HT	Ind. Mixtures, RH Male with Check Valve, Inlet Side with Hand Tight Nut, One End	0-3000
CGA-300	PF-16 PF-16CV	Commercial Acetylene, RH Female with Check Valve, Inlet	0-500
CGA-320	PF-320 PF-320HT	Carbon Dioxide, RH Female with Hand Tight Nut, One End	0-3000
CGA-326	PF-326 PF-326CV PF-326HT	Nitrous Oxide, RH Female 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 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 Check Valve, Inlet Side with Hand Tight Nut, One End	0-3000
CGA-577	PF-577 PF-577CV PF-577HT	Oxygen, RH Female with Check Valve, Inlet Side with Hand Tight Nut, One End	3001-4000
CGA-580	PF-92 PF-92CV PF-92HT	Nitrogen, Argon, RH Male 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 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 PF-701HT	Oxygen, RH Female with Check Valve, Inlet Side with Hand Tight Nut, One End	4001-5500

## Flexible Pigtails

### Thermoplastic Flexible Pigtails, Nylon Lined, Brass Connections

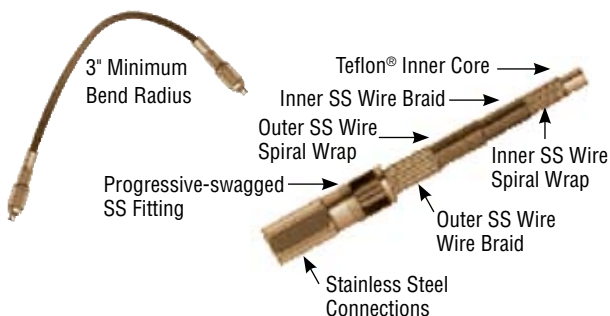


Part No. PFS-83

Part No.	Description	Max PSIG	Gas Service
<b>Complete Assemblies 100% Tested</b>			
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		

\*specify length in inches

### Stainless Steel Flexible Pigtails, Teflon Lined, Stainless Steel Connections



Part No.	Description	Max PSIG	Service
<b>Complete Assemblies 100% Tested &amp; Oxygen Cleaned</b>			
PF-346SS	Air, RH F	3000	CGA-346
PF-347SS	High Pressure Air, RH F	5500	CGA-347
PF-350SS	Hydrogen, 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	--
PH-3	Chrome Plated brass Handle with Set Screw, Prevents Twisting when Tightening		

### Stainless Steel Flexible Pigtails, Brass Connections

Pressures to 3000 PSIG (20,700 kPa)



No Specials Available

Part No.	Description	Length
<b>100% Tested &amp; Cleaned for Oxygen *Individually Poly Bagged 3" Minimum Bend Radius</b>		
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, Stainless Steel Corrugated Inner Core, Stainless Steel Connections

Pressures to 3000 PSIG (20,700 kPa)



Part No. HPF-4-48

Part no.	Description	Length
<b>100% Tested &amp; Cleaned for Oxygen • Individually Poly Bagged 2-3/4" Minimum Bend Radius</b>		
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-4-48	1/4" NPT F x 1/4" NPT F	48"

## Rigid Pigtails / Cryogenic Hoses / SAE Flare Connections

### Rigid Pigtails, Brass Acetylene & LPG Service Pressures to 500 PSIG (3400 kPa)



Part No. P-15PCV

Part No.	With CV	Description	Gas Service
<b>5/16" x .065" Wall Brass Tubing 20" Finished Length Overall</b>			
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-15PCV	LH M Pyrofax, POL Acet. Vert.	CGA-510

### Transfer Hose, Cryogenic



Part No.  
WMH-2-9

Part No.	Description	Service
<b>Oxygen Hose Assembly</b>		
WMH-2-9	48"	CGA-440
WMH-2-10	60"	
WMH-2-11	72"	
WMH-2-12	120"	
WMH-2-13	144"	
<b>Nitrogen, Argon Assembly</b>		
WMH-2-14	48"	CGA-295
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	--

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

### Brass SAE Flare Tubing Connections



Part No. F-11

Part No. F-10

Part No. F-30

Part No. F-32

Part No.	Description	Part	SAE Flare	Service
<b>Pressures to 500 PSIG (3400 kPa)</b>				
F-10	.4375"-20 UNF-2B, RH F	Nut	1/4"	CGA-165
F-11	1/8" NPT M	Adaptor	1/4"	CGA-165
F-12	1/4" NPT M	Adaptor	1/4"	CGA-165
F-20	.625"-18 UNF-2B, RH F	Nut	3/8"	CGA-182
F-22	1/4" NPT M	Adaptor	3/8"	CGA-182
F-30	.750"-16 UNF-2B, RH F	Nut	1/2"	CGA-295
F-31	1/4" NPT M	Adaptor	1/2"	CGA-295
F-32	3/8" NPT M	Adaptor	1/2"	CGA-295
F-33	1/2" NPT M	Adaptor	1/2"	CGA-295
F-40	.875"-14 UNF-2B, RH F	Nut	5/8"	CGA-440
F-41	1/4" NPT M	Adaptor	5/8"	CGA-440
F-42	3/8" NPT M	Adaptor	5/8"	CGA-440
F-43	1/2" NPT M	Adaptor	5/8"	CGA-440
F-44	3/4" NPT M	Adaptor	5/8"	CGA-440

## Cylinder Adaptors

Cylinder Adaptors Table					
Cylinder CGA to Regulator CGA Plus Component Parts					
Cylinder Adaptor	Part Numbers		Regulator Adaptor	From Cylinder Service	To Regulator Service
	Cylinder				
	Nut	Nipple			
0322	305-2	305-3	15-1	CGA-200 "MC" Acetylene	CGA-300 Commercial Acetylene
0321	305-2	305-3	16-1	CGA-200 "MC" Acetylene	CGA-510 POL Acetylene 90°
0324	305-2	305-3	16-1	CGA-200 "MC" Acetylene	CGA-510 POL Acetylene
0305	305-2	305-3	305-1	CGA-200 "MC" Acetylene	CGA-520 "B" Tank 90°
0314	305-2	305-3	314-1	CGA-200 "MC" Acetylene	CGA-520 "B" Tank
0831	0284	0283	415-1	CGA-280 Medical Mixtures	CGA-540 Oxygen
0840	N/A	N/A	N/A	CGA-295 Argon (LqW)	CGA-440 Oxygen (LqW)
0841	29-2	29-3	417-1	CGA-296 Ind Mix (Oxygen)	CGA-590 Industrial Air
0304	16-2	16-3	302-1	CGA-300 Commercial Acetylene	CGA-200 "MC" Acetylene
0016	16-2	16-3	16-1	CGA-300 Commercial Acetylene	CGA-510 POL Acetylene
0061	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°
0316	16-12	16-3	301-1	CGA-300 Commercial Acetylene	CGA-520 "B" Tank
0806	CO-2	CO-3	416-1	CGA-320 Carbon Dioxide	CGA-580 Nitrogen
0827	14-2	14-3	415-1	CGA-346 Air	CGA-540 Oxygen
0828	14-2	14-3	416-1	CGA-346 Air	CGA-580 Nitrogen
0843	14-2	14-3	417-1	CGA-346 Air	CGA-590 Industrial Air
0808	0082	0083	416-1	CGA-350 Hydrogen	CGA-580 Nitrogen
0872	500-2	15-8	415-1	CGA-500 Medical Mixtures	CGA-540 Oxygen
0873	500-2	15-8	416-1	CGA-500 Medical Mixtures	CGA-580 Nitrogen
0874	500-2	15-8	417-1	CGA-500 Medical Mixtures	CGA-590 Industrial Air
0320	15-2	15-8	302-1	CGA-510 POL Acetylene	CGA-200 "MC" Acetylene
0015	15-2	15-8	15-1	CGA-510 POL Acetylene	CGA-300 Commercial Acetylene
0051	15-2	15-8	15-1	CGA-510 POL Acetylene	CGA-300 Coml. Acet. 1 Piece
0818	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
0820	15-2	15-8	300-1	CGA-510 POL Acetylene	CGA-510 POL Acetylene 90°
0315	15-2	15-8	301-1	CGA-510 POL Acetylene	CGA-520 "B" Tank
0306	300-2	--	306-1	CGA-520 "B" Tank Acetylene	CGA-300 Commercial Acetylene
0319	300-2	300-3	15-1	CGA-520 "B" Tank Acetylene	CGA-300 Commercial Acetylene
0317	300-2	300-3	16-1	CGA-520 "B" Tank Acetylene	CGA-510 POL Acetylene
0318	300-2	300-3	300-1	CGA-520 "B" Tank Acetylene	CGA-510 POL Acetylene 90°
0832	0062	0063	1341-1	CGA-540 Oxygen	CGA-346 Air
0416	0062	0063	416-1	CGA-540 Oxygen	CGA-580 Nitrogen
0802	0072	0073	16-1	CGA-555 Propane (LqW)	CGA-510 POL Acetylene
0809	0072	0073	416-1	CGA-555 Propane (LqW)	CGA-580 Nitrogen
0810	0092	15-8	CO-2-1	CGA-580 Nitrogen	CGA-320 Carbon Dioxide
0830	0092	15-8	1341-1	CGA-580 Nitrogen	CGA-346 Air
0811	0092	15-8	800-1	CGA-580 Nitrogen	CGA-350 Hydrogen
0415	0092	15-8	415-1	CGA-580 Nitrogen	CGA-540 Oxygen
0812	0092	15-8	414-1	CGA-580 Nitrogen	CGA-555 Propane (LqW)
0813	0092	15-8	417-1	CGA-580 Nitrogen	CGA-590 Industrial Air
0858	0093	15-8	1341-1	CGA-590 Industrial Air	CGA-346 Air
0815	0093	15-8	416-1	CGA-590 Industrial Air	CGA-580 Nitrogen

## Cylinder Adaptors, Brass

**CGA-200**  
To CGA-300: Part 0322



"MC" Acetylene Cylinder To Commercial Acetylene Regulator

**CGA-280**  
To CGA-540: Part 0831



Medical Breathing Mix Cylinder To Oxygen Regulator

**CGA-300**  
To CGA-510: Part 0061



Commercial Acetylene Cylinder To POL Acetylene Regulator

**CGA-346**  
To CGA-580: Part 0828



Air Cylinder To Argon, Helium, Nitrogen Regulator

**CGA-200**  
To CGA-510: Part 0321



"MC" Acetylene Cylinder To POL Acetylene Regulator

**CGA-295**  
To CGA-440: Part 0840



Argon (LqW) Cylinder To Oxygen (LqW) Regulator

**CGA-300**  
To CGA-510: Part 1690



Commercial Acetylene Cylinder To POL Acetylene Regulator At 90°

**CGA-346**  
To CGA-590: Part 0843



Air Cylinder To Industrial Air Regulator

**CGA-200**  
To CGA-510: Part 0324



"MC" Acetylene Cylinder To POL Acetylene Regulator

**CGA-296**  
To CGA-590: Part 0841



Industrial Mix Of Oxygen (Over 23%) Cylinder To Industrial Air Regulator

**CGA-300**  
To CGA-520: Part 0316



Commercial Acetylene Cylinder To "B" Tank Regulator

**CGA-350**  
To CGA-580: Part 0808



Hydrogen Cylinder To Nitrogen, W.P. Regulator

**CGA-200**  
To CGA-520: Part 0305



Adapts "MC" Acetylene Cylinder To "B" Tank Regulator At 90°

**CGA-300**  
To CGA-200: Part 0304



Commercial Acetylene Cylinder To "MC" Acetylene Regulator

**CGA-320**  
To CGA-580: Part 0806



Carbon Dioxide Cylinder To Nitrogen, W.P. Regulator

**CGA-500**  
To CGA-540: Part 0872



Med Mixtures Cylinder To Oxygen Regulator

**CGA-200**  
To CGA-520: Part 0314



"MC" Acetylene Cylinder To "B" Tank Regulator

**CGA-300**  
To CGA-510: Part 0016



Commercial Acetylene Cylinder To POL Acetylene Regulator

**CGA-346**  
To CGA-540: Part 0827



Air Cylinder To Oxygen Regulator

**CGA-500**  
To CGA-580: Part 0873



Med Mixtures Cylinder To Nitrogen, W.P. Regulator

**CGA-500**  
To CGA-590: Part 0874



Medical Mixtures Cylinder To Industrial Air Regulator

**CGA-510**  
To CGA-410: Part 1516



POL Acetylene Cylinder To Canadian Acetylene Regulator

**CGA-520**  
To CGA-510: Part 0317



"B" Tank Cylinder To POL Acetylene Regulator

**CGA-555**  
To CGA-580: Part 0809



Propane (LqW) Cylinder To Nitrogen, W.P. Regulator

**CGA-510**  
To CGA-200: Part 0320



POL Acetylene Cylinder To Commercial "MC" Acetylene Regulator

**CGA-510**  
To CGA-510: Part 0820



POL Acetylene Cylinder To POL Acetylene Regulator At 90°

**CGA-520**  
To CGA-510: Part 0318



"B" Tank Cylinder To POL Acetylene Regulator At 90°

**CGA-580**  
To CGA-320: Part 0810



Nitrogen W.P. Cylinder To Carbon Dioxide Regulator

**CGA-510**  
To CGA-300: Part 0015



POL Acetylene Cylinder To Commercial Acetylene Regulator

**CGA-510**  
To CGA-520: Part 0315



POL Acetylene Cylinder To "B" Tank Regulator

## Cylinder Adaptors, Brass

<p><b>CGA-540</b> To CGA-346: Part 0382</p>  <p>Oxygen Cylinder To Air Regulator</p>	<p><b>CGA-580</b> To CGA-346: Part 0830</p>  <p>Nitrogen Cylinder To Air Regulator</p>	<p><b>CGA-510</b> To CGA-300: Part 0051</p>  <p>POL Acetylene Cylinder To Commercial Acetylene Regulator (1 Piece)</p>	<p><b>CGA-520</b> To CGA-200: Part 0306</p>  <p>"B" Tank Cylinder To "MC" Acetylene Regulator</p>	<p><b>CGA-540</b> To CGA-580: Part 0416</p>  <p>Oxygen Cylinder To Nitrogen, Argon, W.P. Regulator</p>
<p><b>CGA-580</b> To CGA-350: Part 0811</p>  <p>Nitrogen W.P. Cylinder To Hydrogen Regulator</p>	<p><b>CGA-510</b> To CGA-350: Part 0818</p>  <p>POL Acetylene Cylinder To Hydrogen Regulator</p>	<p><b>CGA-520</b> To CGA-300: Part 0319</p>  <p>"B" Tank Cylinder To Commercial Acetylene Regulator</p>	<p><b>CGA-555</b> To CGA-510: Part 0802</p>  <p>Propane (LqW) Cylinder To POL Acetylene Regulator</p>	<p><b>CGA-580</b> To CGA-540: Part 0415</p>  <p>Nitrogen W.P. Cylinder To Oxygen Regulator</p>
<p><b>CGA-580</b> To CGA-555: Part 0812</p>  <p>Nitrogen W.P. Cylinder To Propane (LqW) Regulator</p>	<p><b>CGA-580</b> To CGA-590: Part 0813</p>  <p>Nitrogen W.P. Cylinder To Industrial Air Regulator</p>	<p><b>CGA-590</b> To CGA-346: Part 0858</p>  <p>Industrial Air Cylinder To Air Regulator</p>	<p><b>CGA-590</b> To CGA-580: Part 0815</p>  <p>Industrial Air Cylinder To Nitrogen, W.P. Regulator</p>	

### Compressed Gas Association

Western Enterprises manufactures fittings and gas manifolds to the standards of the Compressed Gas Association (CGA regulators), where applicable. Western's product design engineering department will evaluate the customer requirements for special order products and make recommendations based on related CGA information.

**Acetylene** CGA 510  
P.O.L.

**Acetylene** CGA 300  
Commercial

**Compressed Air** CGA 346

**Argon** CGA 580

**Carbon Dioxide** CGA 320

**Helium** CGA 580

**Hydrogen** CGA 350

**Nitrogen** CGA 580  
W.P.

**Nitrous Oxide** CGA 326

**Oxygen** CGA 540  
Nut & Nipple

**Oxygen** CGA 870  
Yoke

**Fuel Gases** CGA 510  
Liquified

**Nitrogen** CGA 590  
O.P.