## Cutting Tips

### Cutting Tips – AIRCO / Concoa

**Acetylene - Oxygen**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
</table>
| 124-     | • Light preheat  
          • For general cutting operations  
          • Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches |
| 138-     | • Light preheat  
          • For general cutting operations with hand & machine cutting apparatus  
          • Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches |
| 144-     | • Medium preheat  
          • For general cutting operations with hand or machine cutting apparatus  
          • Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches |
| 164-     | • Very heavy preheat  
          • For general cutting, also for use in cutting cast iron and stainless steel  
          • Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches |
| 183-     | • Gouging  
          • Medium to heavy preheat  
          • Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches |

### Propane or Natural Gas-Oxygen

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
</table>
| 261-     | • Heavy preheat, general cutting  
          • Two piece tip for hand cutting  
          • Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500, 2900 torches |

### MAPP-Propylene

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
</table>
| A-SP-    | • General cutting  
          • Single piece  
          • Medium preheat  
          • Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches |
| A-FS-    | • Hand and machine cutting  
          • Two piece  
          • Medium to heavy preheat  
          • Fits Airco 3790, 4690, 4700, 4800, 5700, 5800, 1100, 3000, 9000, 9500 torches |
## Cutting Tips

### Cutting Tips – Harris

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Description</th>
</tr>
</thead>
</table>
| 6290-    | 00, 0, 1, 2, 3, 4, 5, 6 | • Medium preheat, general hand cutting  
• Fits Harris 42-3, 62-3, 72, 72A, 73, 73A, 63-2, and 85 series torches. |

### Propane or Natural Gas-Oxygen

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Description</th>
</tr>
</thead>
</table>
| 6290NFF- | 0, 1, 2, 3, 4, 5, 6 | • Heavy preheat, general cutting  
• Two piece  
• Fits Harris 42-3F, 49AF, 49F, 62-3F, 85, 72, 73, and 142 series torches. |

### Cutting Tips – Marquette

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Description</th>
</tr>
</thead>
</table>
| GW-6-    | 0, 1, 2, 3, 4 | • General hand and scrap cutting  
• Medium preheat  
• Fits Marquette 20-110 super jet and 21-110 star jet torches |

### Cutting Tips – MECO

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Description</th>
</tr>
</thead>
</table>
| LA-6-    | 00, 0, 1, 2, 3, 4, 5 | • General cutting  
• One piece  
• Fits Weldmaster, Cutmaster, SCA torches |

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1502-    | 2, 3, 4, 6, 8, 10, 12 | • Medium pre-heat  
• For hand or machine cutting  
• Fits GW-32, C-31, C-23, C-77 hand torches, C-37, C-39, C-58 machine torches |
## Cutting Tips

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
</table>
| 4202-    |       | 2, 3, 4, 5, 7, 9, 11, 13 | • Medium preheat for general cutting  
• Fits CW-200, CW-202, Type E torches, C-205 machine torch, CW-300 torches |

### Propane or Natural Gas-Oxygen

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
</table>
| 4213-14- |       | 3, 4, 7 | • Two piece, general cutting  
• Complete tip, medium preheat  
• Fits CW-200, CW-202, Type E torches  
• For CW-300 torches |

### MAPP or FG-2 Oxygen

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
</table>
| P-FS-    |       | 60, 56, 52, 49 | • General cutting  
• Two piece tip standard speed  
• Fits CW-200, CW-202, Type E, CW-300 torches |

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
</table>
| KX-6-    | 68, 53, 51, 46, 42, 35 | | • General cutting  
• Light preheat  
• 4 Preheat holes |
| KX-66-   | 62, 56 | | • Medium preheat for hand cutting  
• Fits KXA, LXA, SXA, CWP 9000, 7000, 18000, 8720, 6808, 6912, 6916 torches  
• 6 Preheat holes |

### Cutting Tips – Smith
**Acetylene - Oxygen**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
</table>
| MC12-    | 00, 0, 1, 2, 3, 4 | | • General cutting  
• Medium duty hand cutting  
• Fits cutting assemblies Pipeliner MC505, MC509, Airliner AC305, AC309 |
| SC12-    | 000, 00, 0, 1, 2, 3, 4, 5, 6, 7 | | • For hand or machine cutting  
• Cutting torches Tuf-Tony, Silver Star (000-5) |

### Propane or Natural Gas-Oxygen

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
</table>
| SC50-    | 00, 0, 1, 2, 3, 4, 5, 6 | | • Hand and machine cutting  
• Two piece  
• Heavy preheat |
Cutting Tips – Victor
Acetylene - Oxygen

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-101-</td>
<td>000, 00, 0,</td>
<td>• Medium preheat for hand and machine cutting</td>
</tr>
<tr>
<td></td>
<td>1, 2, 3, 4, 5</td>
<td>• Fits CA2460, CA1060, ST, SST, CA350, 1400C machine torches, Q2000</td>
</tr>
<tr>
<td>1-118-</td>
<td>0, 2, 4, 6, 8</td>
<td>• Gouging, scarfing, descaling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Medium preheat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fits CA2460, CA1060, ST, SST, CA350, 1400C machine torches, Q2000</td>
</tr>
<tr>
<td>3-101-</td>
<td>000, 00, 0, 1</td>
<td>• Medium preheat hand cutting</td>
</tr>
<tr>
<td></td>
<td>2, 3, 4, 5</td>
<td>• Fits CA1260, CA1350, C-1450, CA250 CA2060, CA2470, CST 800, C1400 torches</td>
</tr>
</tbody>
</table>

Propane - Natural Gas

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-GPN-</td>
<td>0, 1, 2, 3, 4</td>
<td>• Two piece medium preheat series 3 tip</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fits CA1260, CA1350, C-1450, CA250 CA2060, CA2470, CST 800, C1400 torches</td>
</tr>
<tr>
<td>GPN-</td>
<td>000, 00, 0,</td>
<td>• Two piece medium preheat for hand, machine and general cutting</td>
</tr>
<tr>
<td></td>
<td>1, 2, 3, 4, 5</td>
<td>• Fits CA2450, CA1060, CAN 1060, ST, SST, STN machine torches</td>
</tr>
<tr>
<td>2V-FS-</td>
<td>72, 68, 60,</td>
<td>• Medium and heavy preheat</td>
</tr>
<tr>
<td></td>
<td>56, 54, 52, 49</td>
<td>• Hand and machine cutting, two piece</td>
</tr>
<tr>
<td></td>
<td>44, 38</td>
<td>• Fits CA2450, CA1060, CAN 1060, ST, SST, STN machine torches</td>
</tr>
<tr>
<td>3V-FS-</td>
<td>68, 60, 56,</td>
<td>• Medium preheat</td>
</tr>
<tr>
<td></td>
<td>52, 49</td>
<td>• Hand cutting, two piece</td>
</tr>
</tbody>
</table>

Welding Tips – Victor
Acetylene - Oxygen

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OW-</td>
<td>0, 1, 2, 3, 4, 5, 6</td>
<td>• Complete nozzle (nozzle nut included)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• General welding and preheating</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fits 300 series torches</td>
</tr>
<tr>
<td>W-1-</td>
<td>00, 0, 1, 2, 3, 4, 5, 6, 7</td>
<td>• Complete nozzle (nozzle nut included)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Long cone flame general welding &amp; brazing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fits 100 series torches</td>
</tr>
</tbody>
</table>

Heating Tips – Victor
Acetylene or Hydrogen - Oxygen

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFA-</td>
<td>6, 8</td>
<td>• Multiflame nozzle for preheating and straightening</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fits 300 series torches</td>
</tr>
<tr>
<td>MFA-1-</td>
<td>6, 8</td>
<td>• Fits 100 series torches</td>
</tr>
</tbody>
</table>

* Use HD 310C torch with 3/8 hose, manifold if acetylene withdrawal rate exceeds 1/7 cylinder content per hour.
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

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

103 Series CO₂ Regulator
A piston CO₂ regulator that will frost but hard to freeze as with a standard regulator.
- Refrigeration repairmen use CO₂ power for cleaning out coils
- Contractors use CO₂ power for nailing guns.
- Plumbers use CO₂ power to unclog and band pipe.
- Air power without generators or compressors.

Part No. 103-100

“Easy Tie” Regulator

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0101</td>
<td>Regulator only</td>
</tr>
<tr>
<td>101G</td>
<td>Regulator w/ gauge</td>
</tr>
<tr>
<td>101S</td>
<td>Regulator w/ spin-on</td>
</tr>
<tr>
<td>101GS</td>
<td>Regulator w/ gauge and spin-on</td>
</tr>
</tbody>
</table>

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

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

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

High Temperature Torches – Soldering and Brazing
These torches operate with either MAPP® or propane gases.

Swivel Head Brazing Torch
- MAPP®/ Propane
- Stainless steel burn tube rotates 360 degrees.
- Pressure regulated for consistent performance.
- Trigger start igniter.
- Swirl action flame heats up work fast.
Part No. TS839T

Mini Torch
- Produces a needlepoint flame for detail applications
- Interchangeable burn tips, 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

POWERCCELL™ Fuel System
The Bernzomatic trigger start torch kit with POWERCCELL™ 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. TS4000T

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 burn tip, 4’ hose and cylinder clip.
Part No. JTH7

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
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. UL100

2-Piece Kit
- Hazardous material charges may apply.
Part No. UL100

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. OOX9

POWERCELL™ 8.0 ounce propane gas
Part No. OPC8

8
www.middlesexgases.com
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

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

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

---

### OXWELD® Trade Master DLX 540/510

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding range</td>
<td>Up to 3/8” (10 mm)</td>
<td>Up to 1” (25 mm)</td>
</tr>
<tr>
<td>Cutting range</td>
<td>Up to 1-1/2” (38 mm)</td>
<td>Up to 6” (203 mm)</td>
</tr>
<tr>
<td>Heating range</td>
<td>Up to 55 CFH acet. (81,000 BTU/hr.)</td>
<td>Up to 200 CFH acet. (294,000 BTU/hr.)</td>
</tr>
</tbody>
</table>

### OXWELD® Trade Master “FG” DLX 540/510

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding range</td>
<td>Up to 1” (25 mm)</td>
<td></td>
</tr>
<tr>
<td>Cutting range</td>
<td>Up to 1-1/2” (38 mm)</td>
<td>Up to 4” (100 mm)</td>
</tr>
<tr>
<td>Heating range</td>
<td>Up to 70 0-FG (104,000 BTU/hr.)</td>
<td>Up to 200 0-FG (297,000 BTU/hr.)</td>
</tr>
</tbody>
</table>

### OXWELD® GT-450 STD 540/510

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding range</td>
<td>Up to 1” (25 mm)</td>
<td></td>
</tr>
<tr>
<td>Cutting range</td>
<td>Up to 1-1/2” (38 mm)</td>
<td>Up to 6” (203 mm)</td>
</tr>
<tr>
<td>Heating range</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### OXWELD® GT-450 DLX 540/510

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding range</td>
<td>Up to 1” (25 mm)</td>
<td></td>
</tr>
<tr>
<td>Cutting range</td>
<td>Up to 1-1/2” (38 mm)</td>
<td>Up to 6” (203 mm)</td>
</tr>
<tr>
<td>Heating range</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Outfit Contains:

---

Outfit Contains:

---

Outfit Contains:

---

www.middlesexgases.com
**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

**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

**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

<table>
<thead>
<tr>
<th>Range</th>
<th>OXWELD® 400</th>
<th>PUROX® 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding range</td>
<td>Up to 1/8&quot; (3 mm)</td>
<td>Up to 1/8&quot; (3 mm)</td>
</tr>
<tr>
<td>Cutting range</td>
<td>Up to 8&quot; (203 mm)</td>
<td>Up to 4&quot; (102 mm)</td>
</tr>
<tr>
<td>Heating range</td>
<td>81,000 BTU/hr.</td>
<td>81,000 BTU/hr.</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>08Z67</td>
<td>Cutting tip 1502, 1/4&quot;</td>
</tr>
<tr>
<td>15Z17</td>
<td>Cutting tip 1502, 1/2&quot;</td>
</tr>
<tr>
<td>15Z18</td>
<td>Cutting tip 1502, 1-1/2&quot;</td>
</tr>
<tr>
<td>15Z19</td>
<td>Cutting tip 1502, 4&quot;</td>
</tr>
<tr>
<td>15Z20</td>
<td>Cutting tip 1502, 8&quot;</td>
</tr>
<tr>
<td>638869</td>
<td>Cutting tip 4202, 1/8&quot;</td>
</tr>
<tr>
<td>16K08</td>
<td>Cutting tip 4202, 1/4&quot;</td>
</tr>
<tr>
<td>16K09</td>
<td>Cutting tip 4202, 1/2&quot;</td>
</tr>
<tr>
<td>16K10</td>
<td>Cutting tip 4202, 1-1/2&quot;</td>
</tr>
<tr>
<td>16K11</td>
<td>Cutting tip 4202, 4&quot;</td>
</tr>
</tbody>
</table>

**Welding and Cutting Outfit as furnished**
- Welding range: Up to 1" (25 mm)
- Cutting range: Up to 1-1/2" (38 mm) or 3" (76 mm)
- Heating range: Up to 55 CFH acet. (81,000 BTU/hr.) or 200 CFH acet. (294,000 BTU/hr.)

**Outlet Contains:**
- Part No. 999339 W-400/W-300 Torch
- Part No. 999340 CW-400/CW-300 Cutting attach.
- Part No. 998775 #55 Rosebud
- Part No. 639439 Welding head #2
- Part No. 639441 Welding head #6
- Part No. 639442 Welding head #9
- Part No. 08Z67 Cutting tip 1502, 1/4"
- Part No. 15Z17 Cutting tip 1502, 1/2"
- Part No. 15Z18 Cutting tip 1502, 1-1/2"
- Part No. 15Z19 Cutting tip 1502, 4"
- Part No. 15Z20 Cutting tip 1502, 8"
- Part No. 638869 Cutting tip 4202, 1/8"
- Part No. 16K08 Cutting tip 4202, 1/4"
- Part No. 16K09 Cutting tip 4202, 1/2"
- Part No. 16K10 Cutting tip 4202, 1-1/2"
- Part No. 16K11 Cutting tip 4202, 4"

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).
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. 22458- PUROX® Metal Master STD 540/510
Part No. 998691- PUROX® Metal Master DLX 540/510

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

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

---

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding</td>
<td>Up to 3/8&quot; (10 mm)</td>
<td>Up to 1&quot; (25 mm)</td>
</tr>
<tr>
<td>Cutting</td>
<td>Up to 1-1/2&quot; (38 mm)</td>
<td>Up to 8&quot; (203 mm)</td>
</tr>
<tr>
<td>Heating</td>
<td>Up to 200 CFH acet. (294,000 BTU/hr.)</td>
<td></td>
</tr>
</tbody>
</table>

Outfit Contains:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>999339</td>
<td>W-300 Torch</td>
</tr>
<tr>
<td>999340</td>
<td>CW-300 Cutting attachment</td>
</tr>
<tr>
<td>16K10</td>
<td>Cutting tip 4202, 1-1/2&quot;</td>
</tr>
<tr>
<td>639441</td>
<td>Welding head #6</td>
</tr>
<tr>
<td>639443</td>
<td>Welding head #15</td>
</tr>
<tr>
<td>17263</td>
<td>Welding head #30</td>
</tr>
<tr>
<td>21524</td>
<td>Oxygen regulator R-72-75-540</td>
</tr>
<tr>
<td>21525</td>
<td>Acetylene regulator R-72-15-510</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding</td>
<td>Up to 3/8&quot; (10 mm)</td>
<td>Up to 1&quot; (25 mm)</td>
</tr>
<tr>
<td>Cutting</td>
<td>Up to 1-1/2&quot; (38 mm)</td>
<td>Up to 8&quot; (203 mm)</td>
</tr>
<tr>
<td>Heating</td>
<td>Up to 200 CFH acet. (294,000 BTU/hr.)</td>
<td></td>
</tr>
</tbody>
</table>

Outfit Contains:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>999339</td>
<td>W-300 Torch</td>
</tr>
<tr>
<td>999340</td>
<td>CW-300 Cutting attachment</td>
</tr>
<tr>
<td>16K10</td>
<td>Cutting tip 4202, 1-1/2&quot;</td>
</tr>
<tr>
<td>21524</td>
<td>Oxygen regulator R-72-75-540</td>
</tr>
<tr>
<td>21525</td>
<td>Acetylene regulator R-72-15-510</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding</td>
<td>Up to 3/8&quot; (10 mm)</td>
<td>Up to 1&quot; (25 mm)</td>
</tr>
<tr>
<td>Cutting</td>
<td>Up to 1-1/2&quot; (38 mm)</td>
<td>Up to 8&quot; (203 mm)</td>
</tr>
<tr>
<td>Heating</td>
<td>Up to 200 CFH acet. (294,000 BTU/hr.)</td>
<td></td>
</tr>
</tbody>
</table>

Outfit Contains:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>999339</td>
<td>W-300 Torch</td>
</tr>
<tr>
<td>999340</td>
<td>CW-300 Cutting attachment</td>
</tr>
<tr>
<td>16K10</td>
<td>Cutting tip 4202, 1-1/2&quot;</td>
</tr>
<tr>
<td>21524</td>
<td>Oxygen regulator R-72-75-540</td>
</tr>
<tr>
<td>21525</td>
<td>Acetylene regulator R-72-15-510</td>
</tr>
<tr>
<td>0558006160</td>
<td>Rosebud Jr. heating head</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting range</td>
<td>Up to 4” (102 mm)</td>
<td>Up to 12” (305 mm)</td>
</tr>
</tbody>
</table>

**Outfit Contains:**

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

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

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

**Outfit Contains:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>999805</td>
<td>W-200 Torch</td>
</tr>
<tr>
<td>05L20</td>
<td>CW-200 Cutting attachment</td>
</tr>
<tr>
<td>16K09</td>
<td>Cutting tip 4202 1/2”</td>
</tr>
<tr>
<td>18564</td>
<td>Oxygen regulator R-22-75-540A</td>
</tr>
<tr>
<td>998765</td>
<td>Acetylene regulator R-22-15-510 or</td>
</tr>
<tr>
<td>05X01</td>
<td>Acetylene regulator R-22-15-520 “B” or</td>
</tr>
<tr>
<td>05X02</td>
<td>Acetylene regulator R-22-15-200 “MC”</td>
</tr>
</tbody>
</table>

**Part No.** Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0558003632</td>
<td>Tote</td>
</tr>
</tbody>
</table>

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.** 224555- Prest-O-Pak Precision Master DLX “MC” tote w/ tanks

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

**Outfit Contains:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>999805</td>
<td>W-200 Torch</td>
</tr>
<tr>
<td>05L20</td>
<td>CW-200 Cutting attachment</td>
</tr>
<tr>
<td>16K09</td>
<td>Cutting tip 4202 1/2”</td>
</tr>
<tr>
<td>06L48</td>
<td>Welding head #4</td>
</tr>
<tr>
<td>06L49</td>
<td>Welding head #6</td>
</tr>
<tr>
<td>06L50</td>
<td>Welding head #9</td>
</tr>
<tr>
<td>18564</td>
<td>Oxygen regulator R-22-75-540A</td>
</tr>
<tr>
<td>05X02</td>
<td>Acetylene regulator R-22-15-200 “MC”</td>
</tr>
</tbody>
</table>

**Part No.** Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0558003632</td>
<td>Tote</td>
</tr>
<tr>
<td>22456</td>
<td>Acetylene tank “MC”, 10 Cu. Ft.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding range</td>
<td>Up to 3/16&quot; (5 mm)</td>
<td>Up to 3/8&quot; (10 mm)</td>
</tr>
<tr>
<td>Cutting range</td>
<td>Up to 1/2&quot; (13 mm)</td>
<td>Up to 2&quot; (51 mm)</td>
</tr>
<tr>
<td>Heating range</td>
<td>Up to 15 CFH acet. (22,000 BTU/hr.)</td>
<td>Up to 40 CFH acet. (58,667 BTU/hr.)</td>
</tr>
</tbody>
</table>

**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

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

**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

<table>
<thead>
<tr>
<th>Range</th>
<th>Outfit as furnished</th>
<th>Outfit with optional heads and nozzles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welding range</td>
<td>Up to 1/8&quot; (3 mm)</td>
<td>Up to 3/8&quot; (10 mm)</td>
</tr>
<tr>
<td>Heating range</td>
<td>Up to 9 CFH acet. (13,300 BTU/hr.)</td>
<td>Up to 40 CFH acet. (58,667 BTU/hr.)</td>
</tr>
</tbody>
</table>

**Outfit Contains:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>999805</td>
<td>W-200 Torch</td>
</tr>
<tr>
<td>05L20</td>
<td>CW-200 Cutting attachment</td>
</tr>
<tr>
<td>16K09</td>
<td>Cutting tip 4202 1/2&quot;</td>
</tr>
<tr>
<td>06L49</td>
<td>Welding head #6</td>
</tr>
<tr>
<td>22554</td>
<td>Oxygen regulator R-522-75-540A</td>
</tr>
<tr>
<td>22555</td>
<td>Acetylene regulator R-522-15-510</td>
</tr>
</tbody>
</table>

**Outfit Contains:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>22457</td>
<td>Oxygen tank &quot;R&quot;, 20 Cu. Ft.</td>
</tr>
<tr>
<td>22456</td>
<td>Acetylene tank &quot;MC&quot;, 10 Cu. Ft.</td>
</tr>
<tr>
<td>954880</td>
<td>POL Label</td>
</tr>
</tbody>
</table>

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

**Accessories**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0558003632</td>
<td>Tote</td>
</tr>
<tr>
<td>22457</td>
<td>Oxygen tank &quot;R&quot;, 20 Cu. Ft.</td>
</tr>
<tr>
<td>22456</td>
<td>Acetylene tank &quot;MC&quot;, 10 Cu. Ft.</td>
</tr>
</tbody>
</table>

Deluxe outfits contain striker (790F34), goggles (17862), hose (22556).
**PREST-O-LITE® Air-Acetylene Swirljet® Kits**

### X-3B POL Kit
Flexible kit bronze brazes
- Soft solders to 4” (100 mm).
- Silver brazes to 2” (50 mm).
- “B” tank connection.
Part No. 21954

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contains</th>
</tr>
</thead>
<tbody>
<tr>
<td>04X36</td>
<td>R-411B (CGA520) Regulator</td>
</tr>
<tr>
<td>21702</td>
<td>POL QD#1 Torch</td>
</tr>
<tr>
<td>21703</td>
<td>QD-SJ-3A Tip</td>
</tr>
<tr>
<td>21704</td>
<td>QD-SJ-4A Tip</td>
</tr>
<tr>
<td>501F12</td>
<td>Hose 12-1/2’ x 3/16’ A-A</td>
</tr>
</tbody>
</table>

### X-4B POL Kit
Higher capacity kit bronze brazes
- Soft solders to 6” (150 mm).
- Silver brazes to 4” (100 mm).
- “B” tank connection.
Part No. 21955

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contains</th>
</tr>
</thead>
<tbody>
<tr>
<td>04X36</td>
<td>R-411B (CGA520) Regulator</td>
</tr>
<tr>
<td>21702</td>
<td>POL QD#1 Torch</td>
</tr>
<tr>
<td>21704</td>
<td>QD-SJ-4A Tip</td>
</tr>
<tr>
<td>501F12</td>
<td>Hose 12-1/2’ x 3/16’ A-A</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contains</th>
</tr>
</thead>
<tbody>
<tr>
<td>04X36</td>
<td>R-411B (CGA520) Regulator</td>
</tr>
<tr>
<td>21702</td>
<td>POL QD#1 Torch</td>
</tr>
<tr>
<td>21703</td>
<td>QD-SJ-3A Tip</td>
</tr>
<tr>
<td>780F34</td>
<td>Friction lighter</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contains</th>
</tr>
</thead>
<tbody>
<tr>
<td>04X37</td>
<td>R-411MC (CGA200) Regulator</td>
</tr>
<tr>
<td>21702</td>
<td>POL QD#1 Torch</td>
</tr>
<tr>
<td>21703</td>
<td>QD-SJ-3A Tip</td>
</tr>
<tr>
<td>21704</td>
<td>QD-SJ-4A Tip</td>
</tr>
<tr>
<td>501F12</td>
<td>Hose 12-1/2’ x 3/16’ A-A</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contains</th>
</tr>
</thead>
<tbody>
<tr>
<td>04X37</td>
<td>R-411MC (CGA200) Regulator</td>
</tr>
<tr>
<td>21702</td>
<td>POL QD#1 Torch</td>
</tr>
<tr>
<td>22575</td>
<td>PZ5A Tip</td>
</tr>
<tr>
<td>501F12</td>
<td>Hose 12-1/2’ x 3/16’ A-A</td>
</tr>
<tr>
<td>0558003176</td>
<td>Kit Available with R-411B Reg</td>
</tr>
</tbody>
</table>

### LP-1 POL Kit - LP
- Soft solders to 6” (150 mm).
- Silver brazes to 4” (100 mm).
Part No. 21951

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contains</th>
</tr>
</thead>
<tbody>
<tr>
<td>05X38</td>
<td>R-416 LPG Regulator</td>
</tr>
<tr>
<td>21702</td>
<td>POL QD#1 Torch</td>
</tr>
<tr>
<td>21707</td>
<td>QD-SJ-4LPG Tip</td>
</tr>
<tr>
<td>21709</td>
<td>QD-SJ-6LPG Tip</td>
</tr>
<tr>
<td>90F50</td>
<td>Hose 12-1/2’ x 3/16’, A-A fuel gas</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contains</th>
</tr>
</thead>
<tbody>
<tr>
<td>05X38</td>
<td>R-416 LPG Regulator</td>
</tr>
<tr>
<td>21702</td>
<td>POL QD#1 Torch</td>
</tr>
<tr>
<td>21706</td>
<td>QD-SJ-3LPG Tip</td>
</tr>
<tr>
<td>21708</td>
<td>QD-SJ-5LPG Tip</td>
</tr>
<tr>
<td>90F50</td>
<td>Hose 12-1/2’ x 3/16’, A-A fuel gas</td>
</tr>
</tbody>
</table>

### LP-3 POL Kit - LP
- Soft solders to 4” (100 mm).
- Silver brazes to 2” (50 mm).
Part No. 21953

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Kit Contains</th>
</tr>
</thead>
<tbody>
<tr>
<td>05X38</td>
<td>R-416 LPG Regulator</td>
</tr>
<tr>
<td>21702</td>
<td>POL QD#1 Torch</td>
</tr>
<tr>
<td>21707</td>
<td>QD-SJ-4LPG Tip</td>
</tr>
<tr>
<td>90F50</td>
<td>Hose 12-1/2’ x 3/16’, A-A fuel gas</td>
</tr>
<tr>
<td>790F34</td>
<td>Friction lighter</td>
</tr>
</tbody>
</table>
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 Heating Heads
Standard Multiflame

<table>
<thead>
<tr>
<th>Heating Head Assembly</th>
<th>No. of Flames</th>
<th>Avg. Heat Output BTU/hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

W-17 Rosebud Style
Multiflame Heating Heads

<table>
<thead>
<tr>
<th>Heating Head Assembly</th>
<th>No. of Flames</th>
<th>Avg. Heat Output BTU/hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Steel Thickness Inches</th>
<th>Complete Head Assembly Size</th>
<th>Complete Head Assembly Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/32 - 1/16</td>
<td>4A</td>
<td>639865</td>
</tr>
<tr>
<td>1/16 - 3/32</td>
<td>6A</td>
<td>639866</td>
</tr>
<tr>
<td>3/32 - 1/8</td>
<td>9A</td>
<td>639867</td>
</tr>
<tr>
<td>1/8 - 3/16</td>
<td>12A</td>
<td>17270</td>
</tr>
<tr>
<td>3/16 - 1/4</td>
<td>15A</td>
<td>639868</td>
</tr>
<tr>
<td>1/4 - 1/2</td>
<td>30A</td>
<td>639869</td>
</tr>
<tr>
<td>1/2 - 1/4</td>
<td>55A</td>
<td>998101</td>
</tr>
<tr>
<td>3/4 - 1</td>
<td>70A</td>
<td>998102</td>
</tr>
</tbody>
</table>

OXWELD® W-500 Torch
For Oxy-Acetylene Use
For Oxy-Fuel Gas Use - FG-2, Propane, Natural Gas, etc.

<table>
<thead>
<tr>
<th>Heating Head Assembly</th>
<th>No. of Flames</th>
<th>Avg. Heat Output BTU/hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

W-500 Single Flame
Acetylene Welding Heads

<table>
<thead>
<tr>
<th>Steel Thickness Inches</th>
<th>Complete Head Assembly Size</th>
<th>Complete Head Assembly Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 ga. - 3/32</td>
<td>4A</td>
<td>639880</td>
</tr>
<tr>
<td>1/2 - 1/4</td>
<td>6A</td>
<td>639881</td>
</tr>
<tr>
<td>1/8 - 3/32</td>
<td>9A</td>
<td>639882</td>
</tr>
<tr>
<td>3/16 - 3/8</td>
<td>15A</td>
<td>639883</td>
</tr>
<tr>
<td>5/8 - 1</td>
<td>70A</td>
<td>998116</td>
</tr>
</tbody>
</table>

W-500 Heating Heads
Standard Multiflame

<table>
<thead>
<tr>
<th>Heating Head Assembly</th>
<th>No. of Flames</th>
<th>Avg. Heat Output BTU/hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

W-500 Rosebud Style
Multiflame Heating Heads

<table>
<thead>
<tr>
<th>Heating Head Assembly</th>
<th>No. of Flames</th>
<th>Avg. Heat Output BTU/hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Steel Thickness

<table>
<thead>
<tr>
<th>Inches</th>
<th>Complete Head Assembly Size</th>
<th>Complete Head Assembly Part No.</th>
</tr>
</thead>
</table>

| 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 - 1/4   | 55A| 998101 |
| 3/4 - 1     | 70A| 998102 |
| 100A        | 10X03|  |
| 150A        | 10X05|  |
| 250A        | 10X07|  |

| 25 ga. - 3/32 | 4A | 639880 |
| 1/2 - 1/4     | 6A | 639881 |
| 1/8 - 3/32    | 9A | 639882 |
| 3/16 - 3/8    | 15A| 639883 |
| 5/8 - 1       | 70A| 998116 |
| 100A          | 10X06| 8 | 147,000 |
| 150A          | 10X08| 12 | 220,000 |
| 300A          | 10X19| 24 | 441,000 |
| 100FG         | 11X03| 8 | 147,000 |
| 300FG         | 11X08| 24 | 441,000 |
| 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 |
| 200 O-FG      | 999236 | 24 | 297,000 |
| 500 O-FG      | 999086 | 29 | 735,000 |
Torch Equipment

**OXWELD® CW-400 Cutting Attachment**
- Cutting Range using acetylene: 1/16" to 8" (Cone 1500 Series)
- Cutting Range using other fuel gases: 1/16" to 4" (Cone 4200 Series)
- Part No.: 99906 (90° Head)
- Part No.: 9996 (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.
- Part No.: 99905

**PUROX® CW-300 Cutting Attachment**
- Cutting Range using acetylene: 1/16" to 8" (Cone 4200 Series)
- Cutting Range using other fuel gases: 1/16" to 4" (Cone 4200 Series)
- Part No.: 999340 (90° Head)
- Part No.: 999341 (75° Head)

**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.
- Part No.: 999339

**W-400/300 Single Flame**
- Acetylene Standard Welding Heads

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

**W-400/300 Heating Heads**
- Standard Multiflame

<table>
<thead>
<tr>
<th>Complete Head Assembly</th>
<th>No. of Flames</th>
<th>Avg. Heat Output BTU/hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Acetylene Use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55A 998089</td>
<td>7</td>
<td>81,000</td>
</tr>
<tr>
<td>70A 998090</td>
<td>10</td>
<td>102,000</td>
</tr>
<tr>
<td>100A 998091</td>
<td>8</td>
<td>147,000</td>
</tr>
<tr>
<td>150A 998092</td>
<td>12</td>
<td>221,000</td>
</tr>
<tr>
<td>For Oxy-Fuel Gas Use - FG-2, Propane, Natural Gas, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70FG 998093</td>
<td>7</td>
<td>104,000</td>
</tr>
<tr>
<td>100FG 998278</td>
<td>8</td>
<td>147,000</td>
</tr>
<tr>
<td>150FG 998276</td>
<td>12</td>
<td>220,000</td>
</tr>
</tbody>
</table>

**W-400/300 Rosebud**
- Multiflame Heating Heads

<table>
<thead>
<tr>
<th>Complete Head Assembly</th>
<th>No. of Flames</th>
<th>Avg. Heat Output BTU/hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Acetylene Use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 0-A 998773</td>
<td>6</td>
<td>22,000</td>
</tr>
<tr>
<td>30 0-A 998774</td>
<td></td>
<td>44,000</td>
</tr>
<tr>
<td>Rosebud Jr. 0558006160</td>
<td></td>
<td>44,000</td>
</tr>
<tr>
<td>55 0-A 998775</td>
<td>9</td>
<td>81,000</td>
</tr>
<tr>
<td>70 0-A 998776</td>
<td>13</td>
<td>103,000</td>
</tr>
<tr>
<td>100 0-A 998777</td>
<td>16</td>
<td>147,000</td>
</tr>
<tr>
<td>200 0-A 998778</td>
<td>19</td>
<td>294,000</td>
</tr>
<tr>
<td>For Oxy-Fuel Gas Use - FG-2, Propane, Natural Gas, etc.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70 0-FG 999225</td>
<td>8</td>
<td>104,000</td>
</tr>
<tr>
<td>100 0-FG 999228</td>
<td>14</td>
<td>148,000</td>
</tr>
<tr>
<td>200 0-FG 999231</td>
<td>24</td>
<td>297,000</td>
</tr>
</tbody>
</table>

**PREST-O-LITE® CW-200 Cutting Attachment**
- Cutting Range: 1/16" to 2"
- Cutting Nozzles: 4200 Series

**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.)
- Part No.: 999805

**W-200 Single Flame**
- Acetylene Welding Heads

<table>
<thead>
<tr>
<th>Steel Thickness</th>
<th>Complete Head Assembly Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>to 32 ga.</td>
<td>15</td>
<td>06L46</td>
</tr>
<tr>
<td>32-25 ga.</td>
<td>30</td>
<td>06L47</td>
</tr>
<tr>
<td>25 ga. - 1/32</td>
<td>40</td>
<td>06L48</td>
</tr>
<tr>
<td>1/32 - 1/16</td>
<td>60</td>
<td>06L49</td>
</tr>
<tr>
<td>1/16 - 1/8</td>
<td>90</td>
<td>06L50</td>
</tr>
<tr>
<td>1/8 - 3/16</td>
<td>150</td>
<td>06L52</td>
</tr>
<tr>
<td>3/16 - 3/8</td>
<td>300</td>
<td>06L54</td>
</tr>
</tbody>
</table>

**W-200 Rosebud**
- Acetylene Heating Heads

<table>
<thead>
<tr>
<th>Complete Head Assembly</th>
<th>No. of Flames</th>
<th>Avg. Heat Output BTU/hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Part No.</td>
<td></td>
</tr>
<tr>
<td>15 07L13</td>
<td>8</td>
<td>22,000</td>
</tr>
<tr>
<td>30 07L15</td>
<td></td>
<td>44,000</td>
</tr>
<tr>
<td>40 07L17</td>
<td></td>
<td>59,000</td>
</tr>
</tbody>
</table>

**W-200 Twin-Flame**

<table>
<thead>
<tr>
<th>Complete Head Assembly</th>
<th>No. of Flames</th>
<th>Avg. Heat Output BTU/hr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Part No.</td>
<td></td>
</tr>
<tr>
<td>40 07L18 (acet.)</td>
<td>2</td>
<td>22,000</td>
</tr>
<tr>
<td>40 07L19 (FG.)</td>
<td>4</td>
<td>44,000</td>
</tr>
</tbody>
</table>
**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21702</td>
<td>POL #1 Quick disconnect torch handle</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Quick Connect Model No.</th>
<th>Replacement Tip End</th>
<th>Part No.</th>
<th>Copper Tubing Size Capacity @ 15 PSIG Acetylene</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Soft Solder</td>
</tr>
<tr>
<td>22602</td>
<td>PZ-3A</td>
<td>PZ-3ATR</td>
<td>22605</td>
<td>1/4&quot; - 1&quot;</td>
</tr>
<tr>
<td>22603</td>
<td>PZ-4A</td>
<td>PZ-4ATR</td>
<td>22606</td>
<td>3/4&quot; - 1-1/2&quot;</td>
</tr>
<tr>
<td>22575</td>
<td>PZ-5A</td>
<td>PZ-5ATR</td>
<td>22607</td>
<td>1&quot; - 2&quot;</td>
</tr>
<tr>
<td>22604</td>
<td>PZ-6A</td>
<td>PZ-6ATR</td>
<td>22608</td>
<td>2&quot; - 4&quot;</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Quick Connect Model No.</th>
<th>Replacement Tip End</th>
<th>Part No.</th>
<th>Copper Tubing Size Capacity using 25 – 40 PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Propane Gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Soft Solder</td>
</tr>
<tr>
<td>22609</td>
<td>PZ-3P</td>
<td>PZ-3PTR</td>
<td>22612</td>
<td>1/4&quot; - 1&quot;</td>
</tr>
<tr>
<td>22610</td>
<td>PZ-4P</td>
<td>PZ-4PTR</td>
<td>22613</td>
<td>3/4&quot; - 1-1/2&quot;</td>
</tr>
<tr>
<td>22611</td>
<td>PZ-5P</td>
<td>PZ-5PTR</td>
<td>22614</td>
<td>1-1/2&quot; - 2-1/2&quot;</td>
</tr>
</tbody>
</table>

**Acetylene Swirljet® Tips**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Fuel</th>
<th>Pressure PSIG</th>
<th>Gas Flow CFH</th>
<th>Copper Tubing Size &amp; Capacity</th>
<th>Silver Braze</th>
<th>Replacement Mixer Nozzle</th>
</tr>
</thead>
<tbody>
<tr>
<td>22591</td>
<td>OD SJ-0A</td>
<td>Acetylene</td>
<td>2</td>
<td>13</td>
<td>1/8&quot; - 1/2&quot;</td>
<td>1/8&quot; - 1/4&quot;</td>
<td>0558001906</td>
</tr>
<tr>
<td>22592</td>
<td>OD SJ-1A</td>
<td>Acetylene</td>
<td>3.6</td>
<td>1/4&quot; - 1-1/2&quot;</td>
<td>1/8&quot; - 1/2&quot;</td>
<td>0558001907</td>
<td></td>
</tr>
<tr>
<td>22593</td>
<td>OD SJ-2A</td>
<td>Acetylene</td>
<td>5.7</td>
<td>3/4&quot; - 1-1/2&quot;</td>
<td>1/4&quot; - 3/4&quot;</td>
<td>0558001908</td>
<td></td>
</tr>
<tr>
<td>21703</td>
<td>OD SJ-3A</td>
<td>Acetylene</td>
<td>7.2</td>
<td>up to 2&quot;</td>
<td>1/2&quot; - 1&quot;</td>
<td>21481</td>
<td></td>
</tr>
<tr>
<td>21704</td>
<td>OD SJ-4A</td>
<td>Acetylene</td>
<td>12.8</td>
<td>2&quot; - 4&quot;</td>
<td>1&quot; - 2&quot;</td>
<td>21482</td>
<td></td>
</tr>
<tr>
<td>21705</td>
<td>OD SJ-5A</td>
<td>Acetylene</td>
<td>33.8</td>
<td>4&quot; - 6&quot;</td>
<td>1&quot; - 4&quot;</td>
<td>21483</td>
<td></td>
</tr>
</tbody>
</table>

**Fuel Gas Swirljet® Tips**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Model</th>
<th>Pressure Fuel</th>
<th>Gas Flow PSIG</th>
<th>Copper Tubing Size &amp; Capacity</th>
<th>Soft Solder</th>
<th>Silver Braze</th>
<th>Replacement Mixer Nozzle</th>
</tr>
</thead>
<tbody>
<tr>
<td>21706</td>
<td>OD SJ-3LPG</td>
<td>FG-2*</td>
<td>T-3</td>
<td>1.5</td>
<td>1/4&quot; - 1-1/2&quot;</td>
<td>1/4&quot; - 1-1/2&quot;</td>
<td>21478</td>
<td></td>
</tr>
<tr>
<td>21707</td>
<td>OD SJ-4LPG</td>
<td>T-4</td>
<td></td>
<td>3.1</td>
<td>1/4&quot; - 2-1/2&quot;</td>
<td>1/4&quot; - 1-1/4&quot;</td>
<td>21479</td>
<td></td>
</tr>
<tr>
<td>21708</td>
<td>OD SJ-5LPG</td>
<td>T-5</td>
<td></td>
<td>8.0</td>
<td>1&quot; - 4&quot;</td>
<td>1/2&quot; - 2&quot;</td>
<td>21480</td>
<td></td>
</tr>
<tr>
<td>21709</td>
<td>OD SJ-6LPG</td>
<td>T-6</td>
<td></td>
<td>16.2</td>
<td>1&quot; - 6&quot;</td>
<td>3/4&quot; - 4&quot;</td>
<td>21482</td>
<td></td>
</tr>
</tbody>
</table>

* 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.

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

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.

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>639110</td>
<td>639109</td>
</tr>
<tr>
<td>639112</td>
<td>639111</td>
</tr>
<tr>
<td>639209</td>
<td>639210</td>
</tr>
</tbody>
</table>
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.

Injector Legend
- LPMC (01Y6, 01Y7) 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 (01Y75, 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.

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.

Part No. | Description
---|---
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.
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, MPH (20.5”, 520 mm), 1-3/8” Barrel Dia.

Part No. | Description
---|---
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

www.middlesexgases.com
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.

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.

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

OXWELD® High Capacity Manual Torches

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>22111</td>
<td>C-66-1400-21&quot; - 75°</td>
</tr>
<tr>
<td>22112</td>
<td>C-66-1400-21&quot; - 90°</td>
</tr>
<tr>
<td>22113</td>
<td>C-66-1400-21&quot; - 180°</td>
</tr>
<tr>
<td>22118</td>
<td>C-66-1400-36&quot; - 75°</td>
</tr>
<tr>
<td>22119</td>
<td>C-66-1400-36&quot; - 90°</td>
</tr>
<tr>
<td>22120</td>
<td>C-66-1400-36&quot; - 180°</td>
</tr>
<tr>
<td>718321</td>
<td>C-66-1400-48&quot; - 75°</td>
</tr>
<tr>
<td>2120361</td>
<td>C-66-1400-48&quot; - 90°</td>
</tr>
<tr>
<td>718322</td>
<td>C-66-1400-48&quot; - 180°</td>
</tr>
<tr>
<td>718323</td>
<td>C-66-1400-60&quot; - 75°</td>
</tr>
<tr>
<td>22122</td>
<td>C-66-1400-60&quot; - 90°</td>
</tr>
<tr>
<td>718324</td>
<td>C-66-1400-60&quot; - 180°</td>
</tr>
<tr>
<td>718325</td>
<td>C-66-1400-72&quot; - 75°</td>
</tr>
<tr>
<td>22123</td>
<td>C-66-1400-72&quot; - 90°</td>
</tr>
<tr>
<td>718326</td>
<td>C-66-1400-72&quot; - 180°</td>
</tr>
</tbody>
</table>

OXWELD® PM-GST High Capacity Manual Torches

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>22094</td>
<td>PM-GST-48&quot; - 90°</td>
</tr>
<tr>
<td>22098</td>
<td>PM-GST-48&quot; - 180°</td>
</tr>
<tr>
<td>22087</td>
<td>PM-GST-60&quot; - 75°</td>
</tr>
<tr>
<td>22095</td>
<td>PM-GST-60&quot; - 90°</td>
</tr>
<tr>
<td>22099</td>
<td>PM-GST-60&quot; - 180°</td>
</tr>
<tr>
<td>22096</td>
<td>PM-GST-72&quot; - 90°</td>
</tr>
<tr>
<td>22097</td>
<td>PM-GST-96&quot; - 90°</td>
</tr>
<tr>
<td>22101</td>
<td>PM-GST-96&quot; - 180°</td>
</tr>
<tr>
<td>22090</td>
<td>PM-GST-120&quot; - 75°</td>
</tr>
<tr>
<td>22102</td>
<td>PM-GST-120&quot; - 180°</td>
</tr>
<tr>
<td>22091</td>
<td>PM-GST-144&quot; - 75°</td>
</tr>
<tr>
<td>22106</td>
<td>PM-GST-144&quot; - 90°</td>
</tr>
<tr>
<td>22103</td>
<td>PM-GST-144&quot; - 180°</td>
</tr>
<tr>
<td>22092</td>
<td>PM-GST-192&quot; - 75°</td>
</tr>
<tr>
<td>22104</td>
<td>PM-GST-192&quot; - 180°</td>
</tr>
<tr>
<td>22093</td>
<td>PM-GST-216&quot; - 75°</td>
</tr>
<tr>
<td>22105</td>
<td>PM-GST-216&quot; - 180°</td>
</tr>
</tbody>
</table>

www.middlesexgases.com
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Metal Thickness</th>
<th>Size</th>
<th>No. Preheat</th>
<th>Cleaning</th>
<th>Drill Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>15X14</td>
<td>1/2 - 1/2</td>
<td>13 - 38</td>
<td>1-1/2</td>
<td>66</td>
<td>60</td>
</tr>
<tr>
<td>15X15</td>
<td>2 - 4</td>
<td>50 - 100</td>
<td>4</td>
<td>61</td>
<td>46</td>
</tr>
<tr>
<td>15X16</td>
<td>4 - 8</td>
<td>100 - 200</td>
<td>8</td>
<td>57</td>
<td>39</td>
</tr>
<tr>
<td>15X17</td>
<td>8 - 12</td>
<td>200 - 300</td>
<td>12</td>
<td>56</td>
<td>31</td>
</tr>
<tr>
<td>15A96</td>
<td>12 - 16</td>
<td>300 - 400</td>
<td>16*</td>
<td>54</td>
<td>20</td>
</tr>
<tr>
<td>15A97</td>
<td>16 - 18</td>
<td>400 - 460</td>
<td>18*</td>
<td>54</td>
<td>15</td>
</tr>
<tr>
<td>15A98</td>
<td>20</td>
<td>500</td>
<td>20*</td>
<td>54</td>
<td>8</td>
</tr>
</tbody>
</table>

Acetylene or MAPP® Nozzles

1564 Series
- Heavy preheat for beveling of prime coated steels or bevels in excess of 45°.
- Heavy scrap cutting.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Metal Thickness</th>
<th>Size</th>
<th>No. Preheat</th>
<th>Cleaning</th>
<th>Drill Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>15A96</td>
<td>12 - 16</td>
<td>300 - 400</td>
<td>16*</td>
<td>54</td>
<td>20</td>
</tr>
<tr>
<td>15A97</td>
<td>16 - 18</td>
<td>400 - 460</td>
<td>18*</td>
<td>54</td>
<td>15</td>
</tr>
<tr>
<td>15A98</td>
<td>20</td>
<td>500</td>
<td>20*</td>
<td>54</td>
<td>8</td>
</tr>
</tbody>
</table>

FUEL GASES - Hand or Machine Cutting Nozzles

1515 Series
- Natural gas or propane one-piece.
- Long preheat flames.

<table>
<thead>
<tr>
<th>1-piece Tip</th>
<th>Metal Thickness</th>
<th>Size</th>
<th>No. Preheat</th>
<th>Cleaning</th>
<th>Drill Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>08A266</td>
<td>1/2 - 1/2</td>
<td>13 - 38</td>
<td>1-1/2</td>
<td>64</td>
<td>53</td>
</tr>
<tr>
<td>08A267</td>
<td>2 - 4</td>
<td>50 - 100</td>
<td>4</td>
<td>62</td>
<td>46</td>
</tr>
<tr>
<td>08A268</td>
<td>4 - 8</td>
<td>100 - 200</td>
<td>8</td>
<td>59</td>
<td>39</td>
</tr>
<tr>
<td>08A269</td>
<td>8 - 12</td>
<td>200 - 300</td>
<td>12</td>
<td>56</td>
<td>31</td>
</tr>
<tr>
<td>65Z12</td>
<td>12 - 16</td>
<td>300 - 400</td>
<td>16</td>
<td>54</td>
<td>20</td>
</tr>
<tr>
<td>65Z13</td>
<td>16 - 18</td>
<td>400 - 450</td>
<td>18</td>
<td>53</td>
<td>15</td>
</tr>
<tr>
<td>65Z14</td>
<td>18</td>
<td>450</td>
<td>20</td>
<td>52</td>
<td>8</td>
</tr>
</tbody>
</table>

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.
Fuel Gas Equipment

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**
--- | --- | --- | --- | --- | --- | ---
1/8" | 1/8" | 1/8" | 639614 | 639322 | 998277 | 998557 | 12 | • | 79 | 
1/4" | 1/4" | 1/4" | 639615 | 639322 | 998277 | 998557 | 69 | 
1/2" | 1/2" | 1/2" | 639616 | 639322 | 998277 | 998557 | 65 | 
3/4" | 3/4" | 3/4" | 639617 | 639322 | 998277 | 998557 | 61 | 
1" | 1" | 1" | 639618 | 639322 | 998277 | 998557 | 54 | 
2" | 2" | 2" | 639619 | 639322 | 998277 | 998557 | 51 | 
3" | 3" | 3" | 639620 | 639322 | 998277 | 998557 | 51 | 
4" | 4" | 4" | 639621 | 639322 | 998277 | 998557 | 46 | 
8" | 8" | 8" | 639622 | 639322 | 998277 | 998557 | 39 | 
12" | 12" | 12" | 639623 | 639322 | 998277 | 998557 | 31 | 
16" | 16" | 16" | 639624 | 639322 | 998277 | 998557 | 20 | • | 20 | 

**1567 Series Sets**

**Metal Thickness** | **Set Part No.** | **Internal Part No.** | **Natural Gas** | **Set Part No.** | **Internal Part No.** | **FG-2 MAPP®** | **Set Part No.** | **Internal Part No.** | **FG-2 MAPP®** | **Drill Size Cutting**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
1/8" | 639614 | 639322 | 998277 | 998557 | 12 | • | 79 | 
1/4" | 639615 | 639322 | 998277 | 998557 | 69 | 
1/2" | 639616 | 639322 | 998277 | 998557 | 65 | 
3/4" | 639617 | 639322 | 998277 | 998557 | 61 | 
1" | 639618 | 639322 | 998277 | 998557 | 54 | 
2" | 639619 | 639322 | 998277 | 998557 | 51 | 
3" | 639620 | 639322 | 998277 | 998557 | 51 | 
4" | 639621 | 639322 | 998277 | 998557 | 46 | 
8" | 639622 | 639322 | 998277 | 998557 | 39 | 
12" | 639623 | 639322 | 998277 | 998557 | 31 | 
16" | 639624 | 639322 | 998277 | 998557 | 20 | • | 20 |

* 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.

166 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**
--- | --- | --- | --- | --- | --- | ---
1/2" | 1/2" | 1/2" | 639600 | 639322 | 998277 | 998557 | 12 | • | #
3/4" | 3/4" | 3/4" | 639601 | 639322 | 998277 | 998557 | 114208 | 
1" | 1" | 1" | 639602 | 639322 | 998277 | 998557 | 639755 | 998558 | 16 | • | 46 | 
1-1/2" | 1-1/2" | 1-1/2" | 639603 | 639322 | 998277 | 998557 | 639755 | 998558 | 39 | 
2" | 2" | 2" | 639604 | 639322 | 998277 | 998557 | 639755 | 998558 | 31 | 
2-1/2" | 2-1/2" | 2-1/2" | 639605 | 639322 | 998277 | 998557 | 639755 | 998558 | 20 | • | 20 |

**166 Series Sets**

**Metal Thickness** | **Set Part No.** | **Internal Part No.** | **Natural Gas** | **Set Part No.** | **Internal Part No.** | **FG-2 MAPP®** | **Set Part No.** | **Internal Part No.** | **FG-2 MAPP®** | **Drill Size Cutting**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
1/2" | 639600 | 639322 | 998277 | 998557 | 12 | • | #
3/4" | 639601 | 639322 | 998277 | 998557 | 114208 | 
1" | 639602 | 639322 | 998277 | 998557 | 639755 | 998558 | 16 | • | 46 | 
1-1/2" | 639603 | 639322 | 998277 | 998557 | 639755 | 998558 | 39 | 
2" | 639604 | 639322 | 998277 | 998557 | 639755 | 998558 | 31 | 
2-1/2" | 639605 | 639322 | 998277 | 998557 | 639755 | 998558 | 20 | • | 20 |

* 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).
### Heavy Duty Steel Industry Nozzles

**1427 & 1431 Series Cutting Nozzles**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>1-pc. or Internal</th>
<th>External Sleeve</th>
<th>Model</th>
<th>Steel Thickness - Cutting Capacity</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>5470099</td>
<td></td>
<td></td>
<td>1400 Series Fuel Gas Torches</td>
<td>12</td>
<td>1427-12</td>
</tr>
<tr>
<td>5470144</td>
<td></td>
<td></td>
<td></td>
<td>14</td>
<td>1427-14</td>
</tr>
<tr>
<td>5470100</td>
<td></td>
<td></td>
<td></td>
<td>16</td>
<td>1427-16</td>
</tr>
<tr>
<td>5460192</td>
<td></td>
<td></td>
<td></td>
<td>20</td>
<td>1427-20</td>
</tr>
<tr>
<td>5460162</td>
<td></td>
<td></td>
<td></td>
<td>24</td>
<td>1427-24</td>
</tr>
<tr>
<td>5460193</td>
<td></td>
<td></td>
<td></td>
<td>28</td>
<td>1427-28</td>
</tr>
<tr>
<td>66Z59</td>
<td></td>
<td></td>
<td></td>
<td>3-6</td>
<td>1431-12</td>
</tr>
<tr>
<td>66Z60</td>
<td></td>
<td></td>
<td></td>
<td>6-10</td>
<td>1431-14</td>
</tr>
<tr>
<td>66Z61</td>
<td></td>
<td></td>
<td></td>
<td>10-16</td>
<td>1431-16</td>
</tr>
<tr>
<td>66Z62</td>
<td></td>
<td></td>
<td></td>
<td>16-20</td>
<td>1431-20</td>
</tr>
<tr>
<td>66Z63</td>
<td></td>
<td></td>
<td></td>
<td>20-24</td>
<td>1431-24</td>
</tr>
<tr>
<td>66Z64</td>
<td></td>
<td></td>
<td></td>
<td>24-28</td>
<td>1431-28</td>
</tr>
<tr>
<td>2121848</td>
<td></td>
<td></td>
<td></td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>2119486</td>
<td></td>
<td></td>
<td></td>
<td>6-10</td>
<td></td>
</tr>
<tr>
<td>2119578</td>
<td></td>
<td></td>
<td></td>
<td>10-20</td>
<td></td>
</tr>
<tr>
<td>2118702</td>
<td></td>
<td></td>
<td></td>
<td>3-6</td>
<td></td>
</tr>
<tr>
<td>2118701</td>
<td></td>
<td></td>
<td></td>
<td>6-10</td>
<td></td>
</tr>
<tr>
<td>2118707</td>
<td></td>
<td></td>
<td></td>
<td>10-16</td>
<td></td>
</tr>
<tr>
<td>2118700</td>
<td></td>
<td></td>
<td></td>
<td>10-24</td>
<td></td>
</tr>
<tr>
<td>2118703</td>
<td></td>
<td></td>
<td></td>
<td>4-9</td>
<td></td>
</tr>
<tr>
<td>2228620</td>
<td></td>
<td></td>
<td></td>
<td>4-9</td>
<td></td>
</tr>
</tbody>
</table>

**PM-100, 200 & GST Nozzles**

**PUROX® 4200 Group Nozzles**

#### 4202 Series Acetylene Nozzles
- General purpose.
- Medium preheat sufficient for beveling.

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

#### 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Metal Thickness</th>
<th>Size</th>
<th>No. Preheat Holes/Slots</th>
<th>Cleaning Preheat</th>
<th>Drill Size Cutting</th>
</tr>
</thead>
<tbody>
<tr>
<td>19485</td>
<td>1/4</td>
<td>6</td>
<td>12</td>
<td></td>
<td>68</td>
</tr>
<tr>
<td>19486</td>
<td>1/2</td>
<td>13</td>
<td>53</td>
<td></td>
<td>60</td>
</tr>
<tr>
<td>19487</td>
<td>2</td>
<td>25</td>
<td>50</td>
<td></td>
<td>53</td>
</tr>
<tr>
<td>19488</td>
<td>4</td>
<td>70</td>
<td>43</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>19489</td>
<td>6</td>
<td>60</td>
<td>39</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>19490</td>
<td>8</td>
<td>200</td>
<td>35</td>
<td></td>
<td>39</td>
</tr>
<tr>
<td>19491</td>
<td>12</td>
<td>300</td>
<td>31</td>
<td></td>
<td>35</td>
</tr>
</tbody>
</table>

#### 4217 Series Sets

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Metal Thickness</th>
<th>Natural Gas Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set</td>
<td>Internal</td>
<td>Inches</td>
</tr>
<tr>
<td>0558005123</td>
<td>19485</td>
<td>1/4</td>
</tr>
<tr>
<td>0558005124</td>
<td>19486</td>
<td>1/2</td>
</tr>
<tr>
<td>0558005125</td>
<td>19487</td>
<td>1</td>
</tr>
<tr>
<td>0558005126</td>
<td>19488</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Metal Thickness</th>
<th>Natural Gas Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set</td>
<td>Internal</td>
<td>Inches</td>
</tr>
<tr>
<td>0558005127</td>
<td>19489</td>
<td>4</td>
</tr>
<tr>
<td>0558005128</td>
<td>19490</td>
<td>6</td>
</tr>
<tr>
<td>0558005129</td>
<td>19491</td>
<td>8</td>
</tr>
<tr>
<td>0558005130</td>
<td>19492</td>
<td>12</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Cylinder Gas</th>
<th>Model</th>
<th>Max. PSIG</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>998336</td>
<td>Oxygen</td>
<td>R-77-75-540</td>
<td>75</td>
<td>022 9/16' - 18 RH male</td>
</tr>
<tr>
<td>998337</td>
<td>Oxygen</td>
<td>R-77-150-540</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>998338</td>
<td>Oxygen</td>
<td>R-77-200-540</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>998337</td>
<td>Acetylene</td>
<td>R-77-15-510*</td>
<td>15</td>
<td>023 9/16' - 18 LH male</td>
</tr>
<tr>
<td>998340</td>
<td>Acetylene</td>
<td>R-77-15-300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>998341</td>
<td>Hydrogen, Methane</td>
<td>R-77-75-350</td>
<td>75</td>
<td>023 9/16' - 18 LH male</td>
</tr>
<tr>
<td>998342</td>
<td>Hydrogen, Methane</td>
<td>R-77-150-350</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>19057</td>
<td>Argon, Helium,</td>
<td>R-77-15-580</td>
<td>15</td>
<td>032 5/8' - 18 RH female</td>
</tr>
<tr>
<td>19590</td>
<td>Nitrogen</td>
<td>R-77-30-580</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>198343</td>
<td>Nitrogen</td>
<td>R-77-75-580</td>
<td>75</td>
<td>032 5/8' - 18 RH female</td>
</tr>
<tr>
<td>1998344</td>
<td>Nitrogen</td>
<td>R-77-150-580</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>18558</td>
<td>Industrial Air</td>
<td>R-77-150-590</td>
<td>150</td>
<td>033 5/8' - 18 LH female</td>
</tr>
<tr>
<td>19558</td>
<td>Breathing Air</td>
<td>R-77-150-346</td>
<td>150</td>
<td>022 9/16' - 18 RH male</td>
</tr>
</tbody>
</table>

**OXWELD® Heavy-Duty Trimline™ R-76 Regulators**
- Heavy-duty construction provides improved performance and longer life in any environment.
- Patented explosion protection built in.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Cylinder Gas</th>
<th>Model</th>
<th>Max. PSIG</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>998323</td>
<td>Oxygen</td>
<td>R-76-75-540</td>
<td>75</td>
<td>022 9/16' - 18 RH male</td>
</tr>
<tr>
<td>998324</td>
<td>Oxygen</td>
<td>R-76-150-540</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>998327</td>
<td>Acetylene</td>
<td>R-76-15-510*</td>
<td>15</td>
<td>023 9/16' - 18 LH male</td>
</tr>
<tr>
<td>998328</td>
<td>Acetylene</td>
<td>R-76-15-300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>998331</td>
<td>FG-2, Propane, MAPP</td>
<td>R-76-75-510</td>
<td>75</td>
<td>023 9/16' - 18 LH male</td>
</tr>
<tr>
<td>998332</td>
<td>Hydrogen, Methane</td>
<td>R-76-75-350</td>
<td>75</td>
<td>032 9/16' - 18 LH male</td>
</tr>
<tr>
<td>998334</td>
<td>Argon, Helium,</td>
<td>R-76-150-580</td>
<td>150</td>
<td>032 5/8' - 18 RH female</td>
</tr>
<tr>
<td>998335</td>
<td>Argon, Helium,</td>
<td>R-76-500-580</td>
<td>500</td>
<td>1/4&quot; - 45° flared tube fitting</td>
</tr>
<tr>
<td>01629</td>
<td>Carbon Dioxide</td>
<td>R-76-150-320</td>
<td>150</td>
<td>032 5/8' - 18 RH female</td>
</tr>
<tr>
<td>099149</td>
<td>Breathing Air</td>
<td>R-76-150-346</td>
<td>150</td>
<td>022 9/16' - 18 RH male</td>
</tr>
</tbody>
</table>

**PUROX® Medium-Duty R-72/36 Regulators**
- Designed for medium-duty service and built for years of trouble-free performance with minimum maintenance.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model</th>
<th>Max. PSIG</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>21524</td>
<td>Oxygen</td>
<td>R-72-75-540</td>
<td>75</td>
<td>022 9/16' - 18 RH male</td>
</tr>
<tr>
<td>21525</td>
<td>Acetylene</td>
<td>R-72-15-510</td>
<td>15</td>
<td>023 9/16' - 18 LH male</td>
</tr>
<tr>
<td>21526</td>
<td>LPG</td>
<td>R-72-75-510</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>0558005415</td>
<td>Inert Gas</td>
<td>R-72-75-580</td>
<td>75</td>
<td>032 5/8' - 18 RH female</td>
</tr>
<tr>
<td>0558005416</td>
<td>Inert Gas</td>
<td>R-72-125-580</td>
<td>125</td>
<td>1/4&quot; - 37° flared tube fitting</td>
</tr>
<tr>
<td>0558005410</td>
<td>Carbon Dioxide</td>
<td>R-72-75-320</td>
<td>75</td>
<td>032 5/8' - 18 RH female</td>
</tr>
<tr>
<td>21365</td>
<td>Nitrogen purging</td>
<td>R-36-500-580</td>
<td>500</td>
<td>1/4&quot; - 37° flared tube fitting</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model</th>
<th>Max. Inlet PSIG</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>19151</td>
<td>Oxygen</td>
<td>R-76-150-024*</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>19152</td>
<td>Acetylene</td>
<td>R-76-15-025</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>19153</td>
<td>FG-2, Propane, Hydrogen, Propylene</td>
<td>R-76-75-025</td>
<td>75</td>
<td>200</td>
</tr>
<tr>
<td>19154</td>
<td>Argon, Helium, Nitrogen</td>
<td>R-76-15-034</td>
<td>15</td>
<td>200</td>
</tr>
<tr>
<td>19155</td>
<td>Argon, Helium, Nitrogen</td>
<td>R-76-75-034</td>
<td>75</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model</th>
<th>Max. Inlet PSIG</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>22234</td>
<td>Any non-corrosive, non-toxic industrial gas</td>
<td>R-6701</td>
<td>15</td>
<td>1/2' NPT female</td>
</tr>
<tr>
<td>22235</td>
<td></td>
<td>R-6702</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>22236</td>
<td></td>
<td>R-6703</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>2227920</td>
<td></td>
<td>R-6704</td>
<td>200</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model</th>
<th>Max. Inlet PSIG</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>04X36</td>
<td>&quot;B&quot; acetylene tank (40 cf)</td>
<td>R-411B</td>
<td>15</td>
<td>A size</td>
</tr>
<tr>
<td>04X37</td>
<td>&quot;MC&quot; acetylene tank (10 cf)</td>
<td>R-411MC</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>20971**</td>
<td>&quot;B&quot; acetylene tank (40 cf)</td>
<td>R-22-15-520B</td>
<td>15</td>
<td>B size</td>
</tr>
<tr>
<td>20972**</td>
<td>&quot;MC&quot; acetylene tank (10 cf)</td>
<td>R-22-15-200B</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>998765</td>
<td>Standard acetylene cylinders with CGA 510 outlet</td>
<td>R-22-15-510A</td>
<td>15</td>
<td>A size</td>
</tr>
<tr>
<td>18564</td>
<td>Standard oxygen cylinders with CGA 540 outlet</td>
<td>R-22-75-540A</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>21365</td>
<td>Inert gas</td>
<td>R-36-500-580</td>
<td>500</td>
<td>1/4&quot; - 37° flared</td>
</tr>
</tbody>
</table>

* 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.
- CO₂ 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 CO₂ only).
- Output to flowmeter is regulated to exactly 50 PSIG (80 PSIG on R-5008).
- Rotating scale for easy readability of flow rates.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Cylinder Gas</th>
<th>Model</th>
<th>Calibrated Flow Range CFH</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>999149</td>
<td>Carbon Dioxide</td>
<td>R-76-CF-320</td>
<td>10 to 80</td>
<td></td>
</tr>
<tr>
<td>0558005417</td>
<td>Inert Gas</td>
<td>R-72-CF-580</td>
<td>10 to 40</td>
<td></td>
</tr>
<tr>
<td>998124</td>
<td>Argon, Helium, C-25 and Nitrogen</td>
<td>R-5007</td>
<td>20 to 220 He</td>
<td></td>
</tr>
<tr>
<td>998125</td>
<td>Carbon Dioxide</td>
<td>R-5008</td>
<td>10 to 65</td>
<td></td>
</tr>
</tbody>
</table>

**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.

**L-32 / L-33 Flowmeters**
- Durable Lexan® outer tubes.
- L-32 has 4 rotatable scales.
- L-33 has single scale.
- CO₂ models available in both styles.
- UL listed.

**Part No.**
- 21557 Argon R-33-FM-580 10-50 CFH
- 21589* Inert Gas C-25 Display package 20-150
- Consists of: R-33-FM plus an 8 ft. hose (Part No. 21591).

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Cylinder Gas</th>
<th>Model</th>
<th>Flow Rate</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>21557</td>
<td>Argon</td>
<td>R-33-FM-580</td>
<td>10-50</td>
<td>5/8' - 18RH female</td>
</tr>
<tr>
<td>21589*</td>
<td>Inert Gas</td>
<td>Display package</td>
<td>20-150</td>
<td>10-50</td>
</tr>
</tbody>
</table>

**Accessories**
- Flowmeter guard: Mounts over the calibrated tube of the L-32 for protection against rough handling.
- Portable Gas Meter: Available to check actual shielding gas flow at torch.
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-STA-CV: Kit with CGA-300 regulator to cylinder connections
Part No. KM-STA-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.

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>Tip No.</th>
<th>Soft Solder</th>
<th>Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>KA-1H</td>
<td>BA-3</td>
<td>1/4” - 1/2”</td>
<td>“B”</td>
</tr>
<tr>
<td>KA-2H</td>
<td>BA-3</td>
<td>1/4” - 1/2”</td>
<td>“MC”</td>
</tr>
<tr>
<td>KA-31</td>
<td>BA-2, 3, 4</td>
<td>1/4” - 1/2”</td>
<td>“B”</td>
</tr>
<tr>
<td>KA-32</td>
<td>BA-2, 3, 4</td>
<td>1/2” - 1”</td>
<td>“MC”</td>
</tr>
<tr>
<td>KA-37H*</td>
<td>BA-4</td>
<td>1/2” - 1”</td>
<td>“B”</td>
</tr>
<tr>
<td>KA-38H*</td>
<td>BA-4</td>
<td>1/2” - 1”</td>
<td>“MC”</td>
</tr>
</tbody>
</table>

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

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.

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>Tip No.</th>
<th>Soft Solder</th>
<th>Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>KX-3B</td>
<td>GA-3, 11</td>
<td>1-1/2” - 3-1/4”</td>
<td>“B”</td>
</tr>
<tr>
<td>KX-4B</td>
<td>GA-5, 14</td>
<td>2” - 4”</td>
<td>“B”</td>
</tr>
<tr>
<td>KX-5B</td>
<td>GA-5</td>
<td>3/4” - 1-1/2”</td>
<td>“B”</td>
</tr>
<tr>
<td>KX-7B</td>
<td>GA-8</td>
<td>1” - 2-1/2”</td>
<td>“B”</td>
</tr>
</tbody>
</table>

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

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.

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>Tip No.</th>
<th>Soft Solder</th>
<th>Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>KX-10B</td>
<td>GA-3L</td>
<td>Up to 2”</td>
<td>“B”</td>
</tr>
<tr>
<td>KX-10MC</td>
<td>GA-3L</td>
<td>Up to 2”</td>
<td>“MC”</td>
</tr>
<tr>
<td>KX-15B</td>
<td>GA-8L</td>
<td>Up to 4”</td>
<td>“B”</td>
</tr>
<tr>
<td>KX-15MC</td>
<td>GA-8L</td>
<td>Up to 4”</td>
<td>“MC”</td>
</tr>
</tbody>
</table>

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

Acetylene Torch Handles

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Tips</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AA-3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Tips</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GG-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Connection</th>
<th>Hose Fitting</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA-2G</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Replacement Tips

Feather Flame® Tips

Quiet adjustable flame for soft soldering and light brazing. Fits AA-1, AA-3

<table>
<thead>
<tr>
<th>Part Nos.</th>
<th>Tips</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-1, 2, 3, 4, 5, 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MaxXPerformance

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.

<table>
<thead>
<tr>
<th>Part Nos.</th>
<th>Tips</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA-3, 5, 8, 11, 14</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MaxXPerformance

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.

<table>
<thead>
<tr>
<th>Part Nos.</th>
<th>Tips</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA-3L, 8L, 14L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

**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.

**GH-4**

Propane Hoses

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEF-6</td>
<td>6’</td>
</tr>
<tr>
<td>HEF-10</td>
<td>10’</td>
</tr>
<tr>
<td>HEF-12</td>
<td>12’</td>
</tr>
<tr>
<td>HEF-20</td>
<td>20’</td>
</tr>
<tr>
<td>HEF-35</td>
<td>35’</td>
</tr>
<tr>
<td>HEF-50</td>
<td>50’</td>
</tr>
</tbody>
</table>

Propane/MAPP® Hoses

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP3-12</td>
<td>12’</td>
</tr>
</tbody>
</table>

Pencil and Brush Flame Kits

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Tip No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP-1</td>
<td>BP-2</td>
<td>Small pencil flame, soft solders to 1/2’ 6,000 BTUs @ 40psi</td>
</tr>
<tr>
<td>BP-5</td>
<td></td>
<td>Large pencil flame, soft solders to 1-1/2’ 11,000 BTUs @ 40psi</td>
</tr>
<tr>
<td>BP-LTE</td>
<td></td>
<td>Small brush flame, soft solders to 2’ 14,000 BTUs @ 40psi</td>
</tr>
<tr>
<td>BP-4</td>
<td></td>
<td>Medium brush flame, soft solders to 3’ 43,000 BTUs @ 40psi</td>
</tr>
<tr>
<td>BP-5</td>
<td></td>
<td>Large brush flame, soft solders to 4’ 57,000 BTUs @ 40psi</td>
</tr>
</tbody>
</table>

Target® 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Tip No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KP-102</td>
<td>BP-2</td>
<td>Small pencil flame, soft solders to 1/2’ 6,000 BTUs @ 40psi</td>
</tr>
<tr>
<td>KP-105</td>
<td>BP-5</td>
<td>Large pencil flame, soft solders to 1-1/2’ 11,000 BTUs @ 40psi</td>
</tr>
<tr>
<td>KLP-3</td>
<td>GT-3</td>
<td>Small brush flame, soft solders to 2’ 14,000 BTUs @ 40psi</td>
</tr>
<tr>
<td>KLP-6</td>
<td>GT-4</td>
<td>Medium brush flame, soft solders to 3’ 43,000 BTUs @ 40psi</td>
</tr>
<tr>
<td>KLP-10</td>
<td>GT-5</td>
<td>Large brush flame, soft solders to 4’ 57,000 BTUs @ 40psi</td>
</tr>
</tbody>
</table>

Target® Tips

- 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

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

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

Kits
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

### Airco/Concoa

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

### Harris

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

### Air Products

<table>
<thead>
<tr>
<th>Style &amp; Sizes</th>
<th>Goss Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>121 - 00 to 6</td>
<td>1460</td>
</tr>
<tr>
<td>159 - 00 to 6</td>
<td>1476</td>
</tr>
<tr>
<td>271A - 1, 2, 3</td>
<td>801-S + 231</td>
</tr>
<tr>
<td>461 - 1 to 5</td>
<td>221</td>
</tr>
<tr>
<td>461A - 1 to 5</td>
<td>801-S + 231</td>
</tr>
</tbody>
</table>

### Craftsman

<table>
<thead>
<tr>
<th>Style &amp; Sizes</th>
<th>Goss Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>954431 - 0 to 7</td>
<td>3509</td>
</tr>
<tr>
<td>954436 - 1 to 2</td>
<td>1369</td>
</tr>
<tr>
<td>954441 - 0 to 10</td>
<td>3021</td>
</tr>
</tbody>
</table>

### Harris

<table>
<thead>
<tr>
<th>Style &amp; Sizes</th>
<th>Goss Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-FH - 68 to 44</td>
<td>FH-1345</td>
</tr>
<tr>
<td>H-FS - 72 to 44</td>
<td>FS-1355</td>
</tr>
<tr>
<td>23-A-90 - 0 to 10</td>
<td>3021</td>
</tr>
</tbody>
</table>

### Oxweld/L-Tec

<table>
<thead>
<tr>
<th>Style &amp; Sizes</th>
<th>Goss Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-FH - 72 to 38</td>
<td>FH-1735</td>
</tr>
<tr>
<td>O-FS - 72 to 38</td>
<td>FS-1734</td>
</tr>
<tr>
<td>1501 - 4, 6, 8, 10, 12</td>
<td>1750</td>
</tr>
<tr>
<td>1502 - 2 to 12 (1/8 to 12&quot;)</td>
<td>1760</td>
</tr>
<tr>
<td>1511 - 13, 19, 25</td>
<td>1770</td>
</tr>
<tr>
<td>1534 (Int) - 2 to 12,</td>
<td>1734</td>
</tr>
<tr>
<td>14238 (Ext) - 2, 3, 4</td>
<td>1738-S</td>
</tr>
<tr>
<td>14239 (Ext) - 6, 8</td>
<td>1739-M</td>
</tr>
<tr>
<td>14277 (Ext) - 10, 12</td>
<td>1736-X</td>
</tr>
<tr>
<td>1535 (Int) - 31 to 120</td>
<td>1735</td>
</tr>
<tr>
<td>14238 (Ext) - 31, 40, 43, 47, 52</td>
<td>1738-S</td>
</tr>
<tr>
<td>14239 (Ext) - 60, 80</td>
<td>1739-M</td>
</tr>
<tr>
<td>14277 (Ext) - 100, 120</td>
<td>1736-X</td>
</tr>
<tr>
<td>14239 (Ext) - 4</td>
<td>1739-M</td>
</tr>
<tr>
<td>14277 (Ext) - 8, 12</td>
<td>1736-X</td>
</tr>
</tbody>
</table>
# Oxy-Fuel Replacement Torch Tips

## Purox/L-Tec

<table>
<thead>
<tr>
<th>Style &amp; Sizes</th>
<th>Goss Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-FS</td>
<td>72 to 38</td>
</tr>
<tr>
<td>P-SP</td>
<td>72 to 44</td>
</tr>
<tr>
<td>4202 -</td>
<td>2 to 9 (1/4 to 6&quot;</td>
</tr>
<tr>
<td>4202 -</td>
<td>11, 13 (10, 12)&quot;</td>
</tr>
<tr>
<td>4203 -</td>
<td>4, 5, 7, 9</td>
</tr>
<tr>
<td>4207 -</td>
<td>13, 19</td>
</tr>
<tr>
<td>4213-14 -</td>
<td>3 to 8, 10, 12</td>
</tr>
</tbody>
</table>

### Weld Tip

<table>
<thead>
<tr>
<th>Model</th>
<th>Material Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>W-300</td>
<td>2, 4, 6, 9, 15</td>
</tr>
<tr>
<td></td>
<td>3025</td>
</tr>
</tbody>
</table>

## Rego/Recarc

<table>
<thead>
<tr>
<th>Style &amp; Sizes</th>
<th>Goss Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>KX6 -</td>
<td>68 to 46, 42, 35</td>
</tr>
</tbody>
</table>

## Smith

<table>
<thead>
<tr>
<th>Style &amp; Sizes</th>
<th>Goss Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-12 -</td>
<td>00 to 4</td>
</tr>
<tr>
<td>S-FS -</td>
<td>72 to 44</td>
</tr>
<tr>
<td>SC-12 -</td>
<td>000 to 7</td>
</tr>
<tr>
<td>SC-50 -</td>
<td>00 to 9</td>
</tr>
<tr>
<td>SC-110 -</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>SC-112 -</td>
<td>1 to 5</td>
</tr>
<tr>
<td>SW-200 -</td>
<td>1 to 5</td>
</tr>
</tbody>
</table>

### Weld Tip

<table>
<thead>
<tr>
<th>Model</th>
<th>Material Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-200</td>
<td>1, 3, 5, 7</td>
</tr>
<tr>
<td>MW-200</td>
<td>1 to 5</td>
</tr>
<tr>
<td></td>
<td>3028</td>
</tr>
<tr>
<td></td>
<td>3027</td>
</tr>
</tbody>
</table>

### Welding & Heating Tips

<table>
<thead>
<tr>
<th>Style &amp; Sizes</th>
<th>Goss Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTMP -</td>
<td>1, 2, 3, 4, 5</td>
</tr>
<tr>
<td>HTN -</td>
<td>1, 2, 3, 4, 5</td>
</tr>
<tr>
<td>MFA -</td>
<td>8, 10, 12, 15</td>
</tr>
<tr>
<td>MFA-1 -</td>
<td>6, 8</td>
</tr>
<tr>
<td>MFTA -</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>W -</td>
<td>000 to 8</td>
</tr>
<tr>
<td>W-1 -</td>
<td>000 to 7</td>
</tr>
<tr>
<td>W-J -</td>
<td>000 to 7</td>
</tr>
</tbody>
</table>

## Cutting Tip Chart

<table>
<thead>
<tr>
<th>Material Thickness</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>3/4</th>
<th>1</th>
<th>1-1/2</th>
<th>2</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Tip Number + Drill Size</td>
<td>00 + 68</td>
<td>0 + 60</td>
<td>1 + 56</td>
<td>1 + 56</td>
<td>2 + 54</td>
<td>2 + 54</td>
<td>3 + 52</td>
<td>3 + 49</td>
<td>4 + 44</td>
<td>6 + 38</td>
<td>6 + 31</td>
<td>7 + 28</td>
<td>8</td>
</tr>
<tr>
<td>Fuel Gas Pressure Setting LB/IN²</td>
<td>3-5</td>
<td>3-5</td>
<td>3-5</td>
<td>3-5</td>
<td>3-7</td>
<td>3-7</td>
<td>5-10</td>
<td>5-10</td>
<td>6-12</td>
<td>7-13</td>
<td>8-14</td>
<td>10-15</td>
<td>10-15</td>
</tr>
<tr>
<td>Cutting IN/MIN</td>
<td>27-30</td>
<td>26-29</td>
<td>20-24</td>
<td>17-21</td>
<td>14-18</td>
<td>13-17</td>
<td>12-15</td>
<td>8-11</td>
<td>7-9</td>
<td>6-8</td>
<td>5-6</td>
<td>4-5</td>
<td>3-4</td>
</tr>
</tbody>
</table>
**Pipiliner®**
- Cuts to 6’, welds to 1’
- Cuts to 1’, welds to 1/8’ with tips supplied.
- Goggles and striker included.

**Steelworker®**
- Cuts to 5’, welds to 1/2’
- Cuts to 1’, welds to 1/8’ with tips supplied.
- Goggles and striker included.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Torch Handle</th>
<th>Mixer</th>
<th>Cutting Attachment</th>
<th>Tips</th>
<th>Single Stage</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cutting</td>
<td>Welding</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oxygen Reg. 0-125 PSIG</td>
<td>Fuel Gas Reg. 0-15 PSIG</td>
</tr>
<tr>
<td>4403157</td>
<td>43425-300 DLX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>425-15-500</td>
</tr>
</tbody>
</table>

**V-Series: Victor® Compatible**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Torch Handle</th>
<th>Mixer</th>
<th>Cutting Attachment</th>
<th>Tips</th>
<th>Single Stage</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cutting</td>
<td>Welding</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oxygen Reg. 0-125 PSIG</td>
<td>Fuel Gas Reg. 0-15 PSIG</td>
</tr>
</tbody>
</table>

* CGA 300 connection available upon request.

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Torch Handle</th>
<th>Mixer</th>
<th>Cutting Attachment</th>
<th>Tips</th>
<th>Single Stage</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cutting</td>
<td>Welding</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oxygen Reg. 0-125 PSIG</td>
<td>Fuel Gas Reg. 0-15 PSIG</td>
</tr>
<tr>
<td>4403069</td>
<td>8525-510 DLX</td>
<td>85</td>
<td>D-85</td>
<td>72-3</td>
<td>6290-1AC</td>
<td>25-100C-540</td>
<td>25-15C-510</td>
</tr>
<tr>
<td>4403070</td>
<td>8525-300 DLX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25-15C-300</td>
</tr>
</tbody>
</table>

**V-Series: Victor® Compatible**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Torch Handle</th>
<th>Mixer</th>
<th>Cutting Attachment</th>
<th>Tips</th>
<th>Single Stage</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cutting</td>
<td>Welding</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oxygen Reg. 0-125 PSIG</td>
<td>Fuel Gas Reg. 0-15 PSIG</td>
</tr>
<tr>
<td>4403046</td>
<td>V-10025-5-510 DLX</td>
<td>V-100C</td>
<td>V-W-1</td>
<td>V-1350</td>
<td>V3-101-1</td>
<td>23A90-5</td>
<td>25-100C-540</td>
</tr>
<tr>
<td>4403124</td>
<td>V-10025-5-510 DLX Plus</td>
<td>V-100C</td>
<td>V-W-1</td>
<td>V-1350</td>
<td>V3-101-1</td>
<td>23A90-3,5,8</td>
<td>25-15C-510*</td>
</tr>
</tbody>
</table>

* 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Torch Handle</th>
<th>Mixer</th>
<th>Cutting Attach.</th>
<th>Tips</th>
<th>Single Stage</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oxygen Reg. 0-100 and 0-80 PSIG</td>
<td>Fuel Gas Reg. 0-15 PSIG</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>601-100-540 (3000296)</td>
<td>601-15-200 (3000295)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>601-80-540 (3000296)</td>
<td>601-15-200 (3000295)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>201-100C-540</td>
<td>201-15C-510</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>201-15C-300</td>
<td>201-15C-510</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Cutting Torch</th>
<th>Torch Length</th>
<th>Torch Head Angle</th>
<th>Single Stage</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Oxygen Reg. 0-100 PSIG</td>
<td>Fuel Gas Reg. 0-15 PSIG</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25-100C-540</td>
<td>25-15C-510</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25-100C-540</td>
<td>25-50C-510</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>* CGA 300 connection available upon request.</td>
<td></td>
</tr>
</tbody>
</table>

* Cylinders shipped empty. Victor® is a registered trademark owned by Victor Equipment Company, a Thermadyne Company.
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.

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.

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.

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.

Torch Handles
- Equipped with Flash Guard® check valves.
- U.L. listed.
Fuel Gas Equipment

Cutting Tips and Attachments / Mixers

Cutting Attachments

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Handle</th>
<th>Mixer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300380</td>
<td>72-3</td>
<td>85</td>
<td>“E”</td>
</tr>
<tr>
<td>1300340</td>
<td>73-3</td>
<td>43-2, 63-2, 18-5</td>
<td>“E”</td>
</tr>
<tr>
<td>1300440</td>
<td>49-3F</td>
<td>43-2, 63-2, 18-5</td>
<td>“F”</td>
</tr>
<tr>
<td>1300512*</td>
<td>V-2460</td>
<td>Harris V-315C, Victor® 315C series, Medalist® 350 series</td>
<td>“E”</td>
</tr>
<tr>
<td>1300506*</td>
<td>V-1350</td>
<td>Harris V-100C, Victor® 100 series, Medalist® 260 series</td>
<td>“E”</td>
</tr>
<tr>
<td>1300523*</td>
<td>V-2460F</td>
<td>Harris V-315C, Victor® 315C series, Medalist® 350 series</td>
<td>“F”</td>
</tr>
</tbody>
</table>

* V-series = Victor® compatible

Mixers

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

* V-series = Victor® compatible

Cutting Tips

6290
For use with positive pressure “E” torches.
- For Oxygen/acetylene.

6290-NX
- For propane, natural gas.

V-Series Cutting Tips

V1-101 and V3-101
- For Oxygen/acetylene.
- Victor® compatible.

GPN and 3GPN
- For propane, natural gas.
- Victor® compatible.

Harris Calorific
Vendor Code: HAC

www.middlesexgases.com
Welding Tips

Model 23A90
For acetylene

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Tip Size</th>
<th>Metal Thickness</th>
<th>Oxygen Pressure</th>
<th>Acetylene Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600840</td>
<td>0</td>
<td>1/64&quot;</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1600850</td>
<td>1</td>
<td>1/32&quot;</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1600860</td>
<td>2</td>
<td>3/64&quot;</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>1600870</td>
<td>3</td>
<td>1/16&quot;</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>1600880</td>
<td>4</td>
<td>3/32&quot;</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>1600890</td>
<td>5</td>
<td>1/8&quot;</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>1600910</td>
<td>7</td>
<td>1/4&quot;</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>1600940</td>
<td>10</td>
<td>1/2&quot;</td>
<td>10</td>
<td>10</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Power Requirements</th>
<th>120 VAC/50-60/1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel Speed</td>
<td>Infinitely variable from 5-100 IPM</td>
</tr>
<tr>
<td>Load Capacity</td>
<td>15 lbs. vertical, 60 lbs. horizontal</td>
</tr>
<tr>
<td>Magnet Holding Capacity</td>
<td>150 lbs.</td>
</tr>
</tbody>
</table>

Standard Package Includes:
- Cutting machine.
- Torch holder 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

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/CO₂ 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Gas</th>
<th>Flow Capacity SCFH</th>
<th>Regulator Type</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>4400229</td>
<td>301AR-58010</td>
<td>Argon</td>
<td>0-60</td>
<td>Flowgauge</td>
<td>3/16’’ x 10’’ hose</td>
</tr>
<tr>
<td>4400231</td>
<td>301CD-32010</td>
<td>Carbon Dioxide</td>
<td>0-70</td>
<td>Flowmeter</td>
<td></td>
</tr>
</tbody>
</table>

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.

* 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Gas</th>
<th>Delivery Pressure</th>
<th>Supply Pressure</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000816</td>
<td>425-15-300</td>
<td>Acetylene</td>
<td>0-15</td>
<td>30</td>
<td>400</td>
</tr>
<tr>
<td>3000815</td>
<td>425-15-510</td>
<td>Acetylene</td>
<td>0-125</td>
<td>200</td>
<td>4000</td>
</tr>
<tr>
<td>3000762</td>
<td>425-125-346</td>
<td>Medical Air</td>
<td>0-125</td>
<td>200</td>
<td>4000</td>
</tr>
<tr>
<td>3000714</td>
<td>425-125-540</td>
<td>Oxygen</td>
<td>0-125</td>
<td>200</td>
<td>4000</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Gas</th>
<th>Delivery Pressure</th>
<th>Supply Pressure</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3002508</td>
<td>2500-15-300</td>
<td>Acetylene</td>
<td>0-15</td>
<td>30</td>
<td>400</td>
</tr>
<tr>
<td>3002500</td>
<td>2500-15-510</td>
<td>Acetylene</td>
<td>0-125</td>
<td>200</td>
<td>4000</td>
</tr>
<tr>
<td>3002502</td>
<td>2500-50-510P</td>
<td>Propane*</td>
<td>0-50</td>
<td>100</td>
<td>400</td>
</tr>
<tr>
<td>3002511</td>
<td>2500-50-540</td>
<td>Oxygen</td>
<td>0-125</td>
<td>200</td>
<td>4000</td>
</tr>
<tr>
<td>3002504</td>
<td>2500-125-540</td>
<td>Oxygen</td>
<td>0-125</td>
<td>200</td>
<td>4000</td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Gas</th>
<th>Maximum Inlet PSIG</th>
<th>Delivery Pressure</th>
<th>Supply Pressure</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3003507</td>
<td>3500-125-680</td>
<td>Ar, N₂, He</td>
<td>5500</td>
<td>0-125</td>
<td>200</td>
<td>6000</td>
</tr>
<tr>
<td>3003500</td>
<td>3500-125-540</td>
<td>Oxygen</td>
<td>3000</td>
<td>0-400</td>
<td>600</td>
<td>4000</td>
</tr>
<tr>
<td>3003540</td>
<td>3500-400-580</td>
<td>Ar, N₂, He</td>
<td>3000</td>
<td>0-600</td>
<td>1000</td>
<td>4000</td>
</tr>
<tr>
<td>3003541</td>
<td>3500-600-580</td>
<td>Ar, N₂, He</td>
<td>3000</td>
<td>0-600</td>
<td>1000</td>
<td>4000</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Gas</th>
<th>Delivery Pressure Range PSIG</th>
<th>Supply Pressure Gauge PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8700-1500-580</td>
<td>N₂, Ar, He</td>
<td>0-1500</td>
<td>3000</td>
</tr>
<tr>
<td>3200300</td>
<td>8700-2500-580</td>
<td></td>
<td>0-2500</td>
<td>4000</td>
</tr>
<tr>
<td>3200301</td>
<td>8700-1500-350</td>
<td>H₂, Methane</td>
<td>0-1500</td>
<td>3000</td>
</tr>
<tr>
<td>3200302</td>
<td>8700-2500-350</td>
<td></td>
<td>0-2500</td>
<td>4000</td>
</tr>
<tr>
<td>3200303</td>
<td>8700-1500-590</td>
<td>Industrial Air</td>
<td>0-1500</td>
<td>3000</td>
</tr>
<tr>
<td>3200304</td>
<td>8700-2500-590</td>
<td></td>
<td>0-2500</td>
<td>4000</td>
</tr>
<tr>
<td>3200305</td>
<td>8700-1500-540</td>
<td>Oxygen</td>
<td>0-1500</td>
<td>3000</td>
</tr>
<tr>
<td>3200306</td>
<td>8700-2500-540</td>
<td></td>
<td>0-2500</td>
<td>4000</td>
</tr>
<tr>
<td>3200307</td>
<td>8700-1500-346</td>
<td>Medical Air</td>
<td>0-1500</td>
<td>3000</td>
</tr>
<tr>
<td>3200308</td>
<td>8700-2500-346</td>
<td></td>
<td>0-2500</td>
<td>4000</td>
</tr>
<tr>
<td>3200310</td>
<td>8700-1500-347</td>
<td>H₂, Methane</td>
<td>0-1500</td>
<td>3000</td>
</tr>
<tr>
<td>3200311</td>
<td>8700-2500-347</td>
<td></td>
<td>0-3000</td>
<td>4000</td>
</tr>
<tr>
<td>3200312</td>
<td>8700-3000-347</td>
<td></td>
<td>0-4500</td>
<td>6000</td>
</tr>
<tr>
<td>3200314</td>
<td>8700-4500-347</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3200315</td>
<td>8700-6000-695</td>
<td>H₂, Methane</td>
<td>0-1500</td>
<td>3000</td>
</tr>
<tr>
<td>3200316</td>
<td>8700-4500-695</td>
<td></td>
<td>0-4500</td>
<td>6000</td>
</tr>
<tr>
<td>3200318</td>
<td>8700-1500-677</td>
<td>N₂, Ar, He</td>
<td>0-1500</td>
<td>3000</td>
</tr>
<tr>
<td>3200319</td>
<td>8700-3000-677</td>
<td></td>
<td>0-3000</td>
<td>4000</td>
</tr>
<tr>
<td>3200320</td>
<td>8700-4500-677</td>
<td></td>
<td>0-4500</td>
<td>6000</td>
</tr>
<tr>
<td>3200321</td>
<td>8700-6000-677</td>
<td></td>
<td>0-6000</td>
<td>10000</td>
</tr>
<tr>
<td>3200322</td>
<td>8700-1500-680</td>
<td></td>
<td>0-1500</td>
<td>3000</td>
</tr>
<tr>
<td>3200323</td>
<td>8700-6000-680</td>
<td></td>
<td>0-3000</td>
<td>4000</td>
</tr>
<tr>
<td>3200324</td>
<td>8700-4500-680</td>
<td></td>
<td>0-4500</td>
<td>6000</td>
</tr>
<tr>
<td>3200325</td>
<td>8700-3000-680</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3200326</td>
<td>8700-4500-680</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3200327</td>
<td>8700-6000-680</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Gas</th>
<th>Flow Capacity SCFH</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3100200</td>
<td>55-2-Ar-580</td>
<td>Argon (CO₂)</td>
<td>0-70</td>
<td>5/8&quot; -18 (F)</td>
</tr>
<tr>
<td>3100201</td>
<td>355-2-CD-320</td>
<td>Carbon Dioxide (Ar)</td>
<td>0-70*</td>
<td></td>
</tr>
</tbody>
</table>

* On maximum continuous duty cycle, CO₂ 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Gas</th>
<th>Flow Capacity SCFH</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3100140</td>
<td>356-Ar/He-580</td>
<td>Argon/Helium</td>
<td>0-45 (0-140) @ 20 PSIG</td>
<td>5/8&quot; -18 (F)</td>
</tr>
</tbody>
</table>

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 PTFE seat.
- Tamper proof, self seating 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Gas</th>
<th>Delivery Pressure</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3001090</td>
<td>330-125-540</td>
<td>Oxygen</td>
<td>0-125</td>
<td>9/16&quot;-18 RH</td>
</tr>
<tr>
<td>3001091</td>
<td>330-125-580</td>
<td>Ar, N₂</td>
<td>0-70</td>
<td></td>
</tr>
<tr>
<td>3001092</td>
<td>330-125-320</td>
<td>CO₂</td>
<td>0-350</td>
<td>9/16&quot;-18 RH</td>
</tr>
<tr>
<td>3001093</td>
<td>330-350-540</td>
<td>Oxygen</td>
<td>0-500</td>
<td>1/4&quot;-NPT (M)</td>
</tr>
<tr>
<td>3001094</td>
<td>330-350-580</td>
<td>Ar, N₂</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3001095</td>
<td>330-350-320</td>
<td>CO₂</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3001096</td>
<td>330-500-540</td>
<td>Oxygen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3001097</td>
<td>330-500-580</td>
<td>Ar, N₂</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3001098</td>
<td>330-500-320</td>
<td>CO₂</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Gas</th>
<th>Maximum</th>
<th>Delivery Pressure</th>
<th>Supply</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3302600*</td>
<td>9296NC-15-300</td>
<td>Acetylene</td>
<td>500</td>
<td>0-15</td>
<td>30</td>
<td>400</td>
</tr>
<tr>
<td>3302601*</td>
<td>9296NC-15-510P</td>
<td>Acet./fuel gas</td>
<td>333</td>
<td>0-50</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>3302604</td>
<td>9296-125-540</td>
<td>Oxygen</td>
<td>3000</td>
<td>0-125</td>
<td>150</td>
<td>4000</td>
</tr>
<tr>
<td>3302605</td>
<td>9296-250-540</td>
<td>Oxygen</td>
<td>3000</td>
<td>0-250</td>
<td>400</td>
<td></td>
</tr>
<tr>
<td>3302608</td>
<td>9296-125-580</td>
<td>Ar, He, N₂</td>
<td>3000</td>
<td>0-125</td>
<td>150</td>
<td>4000</td>
</tr>
<tr>
<td>3302609</td>
<td>9296-250-580</td>
<td>Ar, He, N₂</td>
<td>3000</td>
<td>0-250</td>
<td>400</td>
<td></td>
</tr>
</tbody>
</table>

* 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torch Length</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0381-0876</td>
<td>36”</td>
<td>ST 932FC</td>
</tr>
<tr>
<td>0381-0879</td>
<td>48”</td>
<td>ST 952FC</td>
</tr>
</tbody>
</table>

---

**Metalcraft™ Acetylene Tips**

General purpose hand and machine torch cutting on clean plate.

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Metal Thickness</th>
<th>Tip Series</th>
<th>Tip Type</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5407-4460</td>
<td>1/4’’</td>
<td>1</td>
<td>101</td>
<td>1-101-00</td>
</tr>
<tr>
<td>5407-4461</td>
<td>1/2’’</td>
<td>1</td>
<td>101</td>
<td>1-101-0</td>
</tr>
<tr>
<td>5407-4462</td>
<td>3/4’’</td>
<td>1</td>
<td>101</td>
<td>1-101-1</td>
</tr>
<tr>
<td>5407-4463</td>
<td>1-1/2’’</td>
<td>1</td>
<td>101</td>
<td>1-101-2</td>
</tr>
<tr>
<td>5407-4464</td>
<td>2’’</td>
<td>1</td>
<td>101</td>
<td>1-101-3</td>
</tr>
<tr>
<td>5407-4465</td>
<td>3’’</td>
<td>1</td>
<td>101</td>
<td>1-101-4</td>
</tr>
<tr>
<td>5407-4471</td>
<td>1/4’’</td>
<td>3</td>
<td>101</td>
<td>3-101-00</td>
</tr>
<tr>
<td>5407-4472</td>
<td>1/2’’</td>
<td>3</td>
<td>101</td>
<td>3-101-0</td>
</tr>
<tr>
<td>5407-4473</td>
<td>3/4’’</td>
<td>3</td>
<td>101</td>
<td>3-101-1</td>
</tr>
<tr>
<td>5407-4474</td>
<td>1-1/2’’</td>
<td>3</td>
<td>101</td>
<td>3-101-2</td>
</tr>
<tr>
<td>5407-4475</td>
<td>2’’</td>
<td>3</td>
<td>101</td>
<td>3-101-3</td>
</tr>
</tbody>
</table>

---

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

[www.middlesexgases.com](http://www.middlesexgases.com)
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.

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.

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 contains 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.
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.

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

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.

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

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
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Fuel Gas</th>
<th>Cutting Torch</th>
<th>Cutting Tip</th>
<th>Oxygen Regulator</th>
<th>Fuel Gas Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>HT3-HS10S</td>
<td>Acetylene</td>
<td>SC229</td>
<td>SC12-2</td>
<td>HB1510A-540S</td>
<td>HB1521B-510S*</td>
</tr>
<tr>
<td>HT3-H300S</td>
<td>Acetylene</td>
<td>SC229</td>
<td>SC12-2</td>
<td>HB1510A-540S</td>
<td>HB1520B-300S*</td>
</tr>
</tbody>
</table>

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

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Fuel Gas</th>
<th>Cutting Torch</th>
<th>Cutting Tip</th>
<th>Oxygen Regulator</th>
<th>Fuel Gas Regulator</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD-510A</td>
<td>Acetylene</td>
<td>WH100</td>
<td>DG109A</td>
<td>MC12-0, MC12-1</td>
<td>30-100-540 CGA 540</td>
<td>30-15-510 CGA 510</td>
</tr>
<tr>
<td>MD-510T*</td>
<td>Acetylene</td>
<td>WH100</td>
<td>DG109A</td>
<td>MC12-0, MC12-1</td>
<td>30-100-540 CGA 540</td>
<td>30-15-510 CGA 510</td>
</tr>
<tr>
<td>MD-300T*</td>
<td>Acetylene</td>
<td>WH100</td>
<td>DG109A</td>
<td>MC12-0, MC12-1</td>
<td>30-100-540 CGA 540</td>
<td>30-15-300 CGA 300</td>
</tr>
<tr>
<td>MD-510MPT*</td>
<td>MAPP®, Propylene</td>
<td>WH100</td>
<td>DG109A</td>
<td>MC90-1</td>
<td>30-100-540 CGA 540</td>
<td>30-50-510 CGA 510</td>
</tr>
<tr>
<td>MD-510LPT*</td>
<td>Propane</td>
<td>WH100</td>
<td>DG109A</td>
<td>MC40-1</td>
<td>30-100-540 CGA 540</td>
<td>30-50-510 CGA 510</td>
</tr>
<tr>
<td>MD-510</td>
<td>Acetylene</td>
<td>WH100</td>
<td>DG109A</td>
<td>MC12-0, MC12-1</td>
<td>30-100-540 CGA 540</td>
<td>30-15-510 CGA 510</td>
</tr>
</tbody>
</table>

* 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.
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Fuel Gas</th>
<th>Torch Handle</th>
<th>Cutting Attachment</th>
<th>Cutting Tip</th>
<th>Welding/ Brazing Tip</th>
<th>Heating Tip</th>
<th>Oxygen Regulator</th>
<th>Fuel Gas Regulator</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB54A-510</td>
<td>Acetylene</td>
<td>CW5A</td>
<td>CC509P</td>
<td>MC12-1</td>
<td>MW205</td>
<td>30-100-540</td>
<td>CGA 540</td>
<td>30-15-510</td>
<td>CGA 510</td>
</tr>
<tr>
<td>MB54A-300</td>
<td>Acetylene</td>
<td>CW5A</td>
<td>CC509P</td>
<td>MC12-1</td>
<td>MW205</td>
<td>30-100-540</td>
<td>CGA 540</td>
<td>30-15-300</td>
<td>CGA 300</td>
</tr>
<tr>
<td>MB55A-300</td>
<td>Acetylene</td>
<td>CW5A</td>
<td>CC509P</td>
<td>MC12-1</td>
<td>MW205</td>
<td>30-100-540</td>
<td>CGA 540</td>
<td>30-15-300</td>
<td>CGA 300</td>
</tr>
<tr>
<td>MB54-510L</td>
<td>Acetylene</td>
<td>CW5A</td>
<td>CC509P</td>
<td>MC12-1</td>
<td>MW205</td>
<td>30-100-540</td>
<td>CGA 540</td>
<td>30-15-510</td>
<td>CGA 510</td>
</tr>
<tr>
<td>MB54-300L</td>
<td>Acetylene</td>
<td>CW5A</td>
<td>CC509P</td>
<td>MC12-1</td>
<td>MW205</td>
<td>30-100-540</td>
<td>CGA 540</td>
<td>30-15-300</td>
<td>CGA 300</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>23-1001D</td>
<td>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)</td>
</tr>
<tr>
<td>23-1003</td>
<td>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.</td>
</tr>
<tr>
<td>23-1003B</td>
<td>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.</td>
</tr>
<tr>
<td>23-1003P</td>
<td>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.</td>
</tr>
<tr>
<td>23-1014</td>
<td>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.</td>
</tr>
</tbody>
</table>

Replacement Tips

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Single Flame Curved</th>
<th>Twin Flame</th>
<th>Straight</th>
<th>Size</th>
<th>Use with Oxygen and:</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-1401-02</td>
<td>2</td>
<td>Acetylene &amp; hydrogen only</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12-1401-03</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12-1401-04</td>
<td>4</td>
<td>Any fuel gas including acetylene and hydrogen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12-1401-05</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12-1401-06</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12-1401-07</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Dual Guard™ - Extra Heavy Duty

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Head Angle</th>
<th>Length</th>
<th>Weight</th>
<th>Tips</th>
</tr>
</thead>
</table>
| DG925B   | 75°        | 21”    | 3-1/2 lbs. | Oxygen/ Acetylene: SC12-00 thru SC12-6, SC56-1 thru SC56-9  
|          |            |        |        | Oxygen/ propylene: SC60-1, SC60-2, SC2-2, SC2-4  
|          |            |        |        | Oxygen/ MAPP®: SC90-00 thru SC90-5, SC56-1 thru SC56-9 |
| DG929B   | 90°        | 21”    | 3-1/2 lbs. | Oxygen/ Acetylene: SC12-00 thru SC12-6, SC56-1 thru SC56-9  
|          |            |        |        | Oxygen/ propylene: SC60-1, SC60-2, SC2-2, SC2-4  
|          |            |        |        | Oxygen/ MAPP®: SC90-00 thru SC90-5, SC56-1 thru SC56-9 |

NOTE: Includes sintered inlet filters.

Gas Axe™ - Extra Heavy Duty

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.

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

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

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

---

**Lifetime Warranty**

**MADE IN USA**

www.middlesexgases.com
**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: 7588 (also for SC Series)

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

**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: MWS1, MWS5A
- Valve assembly replacement 7588 (also for MC500 & AC300 Series)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Weight</th>
<th>Style</th>
<th>Head Angle</th>
<th>Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG109A</td>
<td>11-1/4”</td>
<td>1 lb. 3 oz.</td>
<td>HD</td>
<td>90°</td>
<td>All MC Series cutting &amp; special purpose tips</td>
</tr>
</tbody>
</table>

**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 MWS1, MWS5A

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

* 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).

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Head Angle</th>
<th>Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC309</td>
<td>90°</td>
<td>Oxygen/ acetylene: MC12-0 thru MC12-4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oxygen/ propane oxygen/ propane based: MC40-0 thru MC40-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oxygen/ propylene: MC60-1 thru MC60-4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oxygen/ MAPP®: MC90-1, MC90-2, MC Series Special Purpose Tips</td>
</tr>
</tbody>
</table>
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. Supersedes: SW1, SW1A, SW1B
• Valve assembly replacement: G729-5A

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Weight</th>
<th>Handle Diameter</th>
<th>Used With Cutting Attachments</th>
<th>Welding Tips</th>
<th>Heating Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>WH200</td>
<td>7-1/2&quot;</td>
<td>17-3/8 oz.</td>
<td>1&quot;</td>
<td>SC209, SC200, SC205, SC509, DG205, DG209, DG200</td>
<td>SW200, SW400</td>
<td>ST600, ST800</td>
</tr>
</tbody>
</table>

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. Supersedes: MW5, MW5A
• Valve assembly replacement: LW17

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Weight</th>
<th>Handle Diameter</th>
<th>Used With Cutting Attachments</th>
<th>Welding Tips</th>
<th>Heating Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>WH100</td>
<td>7&quot;</td>
<td>14 oz.</td>
<td>15/16&quot;</td>
<td>MC505, MC509, DG105, DG109A</td>
<td>MW200</td>
<td>MT600, MT800</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Weight</th>
<th>Handle Diameter</th>
<th>Used With Cutting Attachments</th>
<th>Welding Tips</th>
<th>Heating Tips</th>
<th>Twin Flame Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW1A</td>
<td>5-3/4&quot;</td>
<td>6-1/8 oz.</td>
<td>11/16&quot;</td>
<td>AC309</td>
<td>AW200</td>
<td>AT600</td>
<td>AT600, AT600X6</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Weight</th>
<th>Handle Diameter</th>
<th>Used With Cutting Attachments</th>
<th>Welding Tips</th>
<th>Heating Tips</th>
<th>Twin Flame Tips</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW10A</td>
<td>6-3/4&quot;</td>
<td>14 oz.</td>
<td>15/16&quot;</td>
<td>AC309</td>
<td>AW200</td>
<td>AT600</td>
<td>AT600, AT600X6</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Cutting Range</th>
<th>Acetylene 6 Pre-heats</th>
<th>Medium Preheat</th>
<th>Heavy Preheat</th>
<th>Propane 2-Piece Tips</th>
<th>Medium Preheat</th>
<th>Heavy Preheat</th>
<th>Propylene 2-Piece Tips</th>
<th>Medium Preheat</th>
<th>Heavy Preheat</th>
<th>MAPP® 2-Piece Tips</th>
<th>Medium Preheat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 3/16&quot;</td>
<td>SC12-00</td>
<td>SC40-0</td>
<td>SC50-0</td>
<td>SC60-00</td>
<td>SC90-00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4&quot; - 3/8&quot;</td>
<td>SC12-1</td>
<td>SC56-1</td>
<td>SC50-1</td>
<td>SC60-1</td>
<td>SC90-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot; - 2&quot;</td>
<td>SC12-3</td>
<td>SC56-3</td>
<td>SC50-3</td>
<td>SC60-3</td>
<td>SC90-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-1/2&quot; - 4&quot;</td>
<td>SC12-4</td>
<td>SC56-4</td>
<td>SC50-4</td>
<td>SC60-4</td>
<td>SC90-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5&quot; - 8&quot;</td>
<td>SC12-5</td>
<td>SC56-5</td>
<td>SC50-5</td>
<td>SC60-5</td>
<td>SC90-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10&quot; - 12&quot;</td>
<td>SC12-6</td>
<td>SC56-6</td>
<td>SC50-6</td>
<td>SC60-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13&quot; - 14&quot;</td>
<td>SC56-7</td>
<td>SC50-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15&quot; - 18&quot;</td>
<td>SC56-8</td>
<td>SC50-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19&quot; - 20&quot;</td>
<td>SC56-9</td>
<td>SC50-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21&quot; - 24&quot;</td>
<td>SC56-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Cutting Range</th>
<th>Acetylene 6 Pre-Heats</th>
<th>Medium Preheat</th>
<th>Heavy Preheat</th>
<th>Propane 2-Piece Tips</th>
<th>Medium Preheat</th>
<th>Heavy Preheat</th>
<th>Propylene 2-Piece Tips</th>
<th>Medium Preheat</th>
<th>Heavy Preheat</th>
<th>MAPP® 2-Piece Tips</th>
<th>Medium Preheat</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot; - 3/16&quot;</td>
<td>MC12-00</td>
<td>MC40-0</td>
<td>MC60-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/4&quot; - 3/8&quot;</td>
<td>MC12-1</td>
<td>MC40-1</td>
<td>MC60-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4&quot; - 1&quot;</td>
<td>MC12-2</td>
<td>MC40-2</td>
<td>MC60-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-1/2&quot; - 2&quot;</td>
<td>MC12-3</td>
<td>MC40-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-1/2&quot; - 4&quot;</td>
<td>MC12-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5&quot; - 6&quot;</td>
<td>MC12-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special Purpose Tips - SC And MC

For use with straight cutting torches only.

<table>
<thead>
<tr>
<th>Application</th>
<th>Capacity</th>
<th>Acetylene</th>
<th>Propane</th>
<th>MAPP®</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Gouging</td>
<td>1/8&quot; D x 1/4&quot; W</td>
<td>SC13-3, MC13-3</td>
<td>SC23-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gouging</td>
<td>1/4&quot; D x 3/8&quot; W</td>
<td>SC12-3</td>
<td>SC23-5M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rivet cutting</td>
<td>3/4&quot; rivets</td>
<td>SC15-2</td>
<td>SC23-5M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Riser</td>
<td>1-1/2&quot; rivets</td>
<td>SC14-3</td>
<td></td>
<td></td>
<td>---</td>
</tr>
<tr>
<td>Rivet blowing &amp; metal washing</td>
<td>3/8&quot;-1/2&quot;</td>
<td>SC15-2</td>
<td></td>
<td></td>
<td>---</td>
</tr>
<tr>
<td>Plate cutting</td>
<td>3/8&quot;</td>
<td>SC17-0</td>
<td></td>
<td></td>
<td>---</td>
</tr>
<tr>
<td>Heating</td>
<td>83,000 BTU</td>
<td>SC83</td>
<td></td>
<td></td>
<td>---</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Welding Range (Metal Thickness)</th>
<th>Use in WH200 or SW1A</th>
<th>Use in WH100 or MW5A</th>
<th>Use in AW1A, AW10A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetylene</td>
<td>Propane</td>
<td>Acetylene</td>
<td>Propane</td>
</tr>
<tr>
<td>Up To:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/32”</td>
<td>SW201</td>
<td>MW201</td>
<td>AW201</td>
</tr>
<tr>
<td>1/16”</td>
<td>SW403</td>
<td>MW403</td>
<td></td>
</tr>
<tr>
<td>5/64”</td>
<td>SW203</td>
<td>MW203</td>
<td>AW203</td>
</tr>
<tr>
<td>1/8”</td>
<td>SW405</td>
<td>MW205</td>
<td>AW205</td>
</tr>
<tr>
<td>3/16”</td>
<td>SW207</td>
<td>MW207</td>
<td>AW207</td>
</tr>
<tr>
<td>3/8”</td>
<td>SW209</td>
<td>MW209</td>
<td>AW209</td>
</tr>
<tr>
<td>1/2”</td>
<td>SW210</td>
<td></td>
<td>AW210</td>
</tr>
<tr>
<td>5/8”</td>
<td></td>
<td>MW411</td>
<td></td>
</tr>
<tr>
<td>1” and over</td>
<td>SW214</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Average BTU’s Outlet</th>
<th>Use in WH200 or SW1A</th>
<th>Use in CW5A, WH100 or MW5A</th>
<th>Use in AW1A, AW10A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acetylene</td>
<td>Propane</td>
<td>Acetylene</td>
</tr>
<tr>
<td>40,125</td>
<td>MT603</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41,550</td>
<td></td>
<td>AT605</td>
<td></td>
</tr>
<tr>
<td>71,750</td>
<td>ST603</td>
<td></td>
<td></td>
</tr>
<tr>
<td>73,085</td>
<td>MT605</td>
<td></td>
<td></td>
</tr>
<tr>
<td>121,500</td>
<td>ST605</td>
<td></td>
<td></td>
</tr>
<tr>
<td>124,670</td>
<td>MT810</td>
<td></td>
<td></td>
</tr>
<tr>
<td>128,970</td>
<td>MT610</td>
<td></td>
<td></td>
</tr>
<tr>
<td>194,890</td>
<td>ST610</td>
<td></td>
<td></td>
</tr>
<tr>
<td>286,350</td>
<td>ST615</td>
<td>MT615</td>
<td></td>
</tr>
<tr>
<td>421,000</td>
<td>ST815</td>
<td>MT815</td>
<td></td>
</tr>
<tr>
<td>455,000</td>
<td>ST25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>614,195</td>
<td>ST635</td>
<td></td>
<td></td>
</tr>
<tr>
<td>865,000</td>
<td>ST825</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


**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

---

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Used</th>
<th>Delivery Pressure</th>
<th>Gauges (2 1/2” Dia.)</th>
<th>Inlet Connection</th>
<th>Outlet Connection</th>
<th>Max Inlet Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen Regulators</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HB1510-540</td>
<td>Oxygen</td>
<td>0-150 PSIG</td>
<td>0-1000 kPa</td>
<td>4000 PSIG</td>
<td>200 PSIG</td>
<td>CGA 540</td>
</tr>
<tr>
<td>HB1510-540S2</td>
<td>Oxygen</td>
<td>0-150 PSIG</td>
<td>0-1000 kPa</td>
<td>4000 PSIG</td>
<td>200 PSIG</td>
<td>CGA 540</td>
</tr>
<tr>
<td>Acetylene Regulators</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HB1520-300</td>
<td>Acetylene</td>
<td>0-15 PSIG</td>
<td>0-100 kPa</td>
<td>4000 PSIG</td>
<td>30 PSIG</td>
<td>CGA 300</td>
</tr>
<tr>
<td>HB1520-300S2</td>
<td>Acetylene</td>
<td>0-15 PSIG</td>
<td>0-100 kPa</td>
<td>4000 PSIG</td>
<td>30 PSIG</td>
<td>CGA 300</td>
</tr>
<tr>
<td>HB1521-510</td>
<td>Acetylene</td>
<td>0-15 PSIG</td>
<td>0-100 kPa</td>
<td>4000 PSIG</td>
<td>30 PSIG</td>
<td>CGA 510</td>
</tr>
<tr>
<td>HB1521-510S2</td>
<td>Acetylene</td>
<td>0-15 PSIG</td>
<td>0-100 kPa</td>
<td>4000 PSIG</td>
<td>30 PSIG</td>
<td>CGA 510</td>
</tr>
<tr>
<td>Propane, Propylene, MAPP® and Natural Gas Regulators</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HB1522-510</td>
<td>LP Gas</td>
<td>0-60 PSIG</td>
<td>0-350 kPa</td>
<td>4000 PSIG</td>
<td>60 PSIG</td>
<td>CGA 510</td>
</tr>
<tr>
<td>Other Gases</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HB1530-580</td>
<td>Nitrogen</td>
<td>0-275 PSIG</td>
<td>0-1900 kPa</td>
<td>4000 PSIG</td>
<td>400 PSIG</td>
<td>CGA 580</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Used</th>
<th>Delivery Pressure</th>
<th>Gauges (2” Dia.)</th>
<th>Inlet</th>
<th>Outlet</th>
<th>Inlet Connection</th>
<th>Outlet Connection</th>
<th>Max Inlet Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>30-100-540</td>
<td>Oxygen</td>
<td>0-100 PSIG 0-700 kPa</td>
<td>4000 PSIG 28000 kPa</td>
<td>150 PSIG 1000 kPa</td>
<td>CGA 540</td>
<td>9/16” - 18 RH “B”</td>
<td>3000 PSIG</td>
<td></td>
</tr>
<tr>
<td>30-15-300</td>
<td>Acetylene</td>
<td>0-15 PSIG 0-100 kPa</td>
<td>400 PSIG 2800 kPa</td>
<td>30 PSIG 200 kPa</td>
<td>CGA 300</td>
<td>9/16” - 18 LH “B”</td>
<td>400 PSIG</td>
<td></td>
</tr>
<tr>
<td>30-15-510</td>
<td>Acetylene</td>
<td>0-15 PSIG 0-100 kPa</td>
<td>400 PSIG 2800 kPa</td>
<td>30 PSIG 200 kPa</td>
<td>CGA 510</td>
<td>9/16” - 18 LH “B”</td>
<td>400 PSIG</td>
<td></td>
</tr>
<tr>
<td>30-50-510</td>
<td>LP Gas</td>
<td>0-50 PSIG 0-350 kPa</td>
<td>400 PSIG 2800 kPa</td>
<td>60 PSIG 400 kPa</td>
<td>CGA 510</td>
<td>9/16” - 18 LH “B”</td>
<td>400 PSIG</td>
<td></td>
</tr>
<tr>
<td>30-150-580</td>
<td>Argon</td>
<td>0-150 PSIG 0-1050 kPa</td>
<td>4000 PSIG 28000 kPa</td>
<td>150 PSIG 1000 kPa</td>
<td>CGA 580</td>
<td>5/8” - 18 RH Internal</td>
<td>3000 PSIG</td>
<td></td>
</tr>
<tr>
<td>30-100-320*</td>
<td>CO₂</td>
<td>0-100 PSIG 0-700 kPa</td>
<td>4000 PSIG 28000 kPa</td>
<td>150 PSIG 1000 kPa</td>
<td>CGA 320</td>
<td>5/8” - 18 RH Internal</td>
<td>3000 PSIG</td>
<td></td>
</tr>
<tr>
<td>30-100-350</td>
<td>Hydrogen</td>
<td>0-100 PSIG 0-700 kPa</td>
<td>4000 PSIG 28000 kPa</td>
<td>150 PSIG 1000 kPa</td>
<td>CGA 350</td>
<td>9/16” - 18 LH “B” Internal</td>
<td>3000 PSIG</td>
<td></td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Max Inlet Pressure (PSIG)</th>
<th>Delivery Pressure</th>
<th>Inlet Gauge</th>
<th>Delivery Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>823</td>
<td>6,000</td>
<td>0 - 500</td>
<td>0 - 10,000</td>
<td>200</td>
</tr>
<tr>
<td>824</td>
<td>6,000</td>
<td>0 - 1,000</td>
<td>0 - 10,000</td>
<td>200</td>
</tr>
<tr>
<td>825</td>
<td>6,000</td>
<td>0 - 2,000</td>
<td>0 - 10,000</td>
<td>200</td>
</tr>
<tr>
<td>826</td>
<td>6,000</td>
<td>0 - 4,000</td>
<td>0 - 10,000</td>
<td>200</td>
</tr>
<tr>
<td>827</td>
<td>6,000</td>
<td>0 - 6,000</td>
<td>0 - 10,000</td>
<td>200</td>
</tr>
</tbody>
</table>

Outlet Fitting
- 00 None
- 66 1/4” Male NPT stainless steel needle valve
- CGA Inlet Fittings
- 00 None
- 09 CGA 580 brass
- 26 CGA 347 SST
- 27 CGA 677 SST
- 28 CGA 680 SST

Max CGA Pressure
- 3000 PSIG
- 5500 PSIG
- 10,000 PSIG
- 6,000 PSIG
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 with 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. Regulator Delivery Pressure Inlet Connection Gas Used
HTP2 30-100-540 0-75 PSIG CGA 580 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 for added product durability. Series 30™ 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Regulator</th>
<th>Delivery Pressure</th>
<th>Inlet Connection</th>
<th>Gas Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>32-80-580-6</td>
<td>Argon/CO₂</td>
<td>0 - 80 SCFH</td>
<td>CGA 580</td>
<td>Oxygen</td>
</tr>
<tr>
<td>32-80-320-6</td>
<td>Argon/CO₂</td>
<td>0 - 80 SCFH</td>
<td>CGA 320</td>
<td>Oxygen</td>
</tr>
<tr>
<td>*32-30-580-6</td>
<td>Argon/CO₂</td>
<td>0 - 60 SCFH</td>
<td>CGA 580</td>
<td>Oxygen</td>
</tr>
<tr>
<td></td>
<td>Helium</td>
<td>0 - 190 SCFH</td>
<td>CGA 580</td>
<td>Oxygen</td>
</tr>
<tr>
<td></td>
<td>General/Any Gas</td>
<td>0 - 10 Range</td>
<td>CGA 580</td>
<td>Oxygen</td>
</tr>
</tbody>
</table>

NOTE: Includes 6’ hose with inert hose connections.
* Select-O-Gas™ Regulator does the jobs of more than 3 common flowmeters. Has 3 separate scales: Argon/CO₂, 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/CO₂ 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Used</th>
<th>Flow Range</th>
<th>Preset Delivery Pressure</th>
<th>Inlet Connection</th>
<th>Outlet Connection</th>
<th>Maximum Inlet Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2051-580</td>
<td>Argon/CO₂</td>
<td>0 - 50 SCFH</td>
<td>50 PSIG</td>
<td>CGA 580</td>
<td>5/8” - 18 RH Internal</td>
<td>3000 PSIG</td>
</tr>
<tr>
<td>H2051-580H</td>
<td>Argon, Helium</td>
<td>0 - 50 SCFH*</td>
<td>50 PSIG</td>
<td>CGA 580</td>
<td>5/8” - 18 RH Internal</td>
<td>3000 PSIG</td>
</tr>
</tbody>
</table>

* Includes 6’ hose with inert hose connections.
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Used</th>
<th>Delivery Range</th>
<th>Inlet Connection</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-50-580</td>
<td>Argon</td>
<td>10 - 50 SCHF</td>
<td>CGA 580</td>
<td>5/8&quot; - 18 RH Internal</td>
</tr>
<tr>
<td>31-50-580-6*</td>
<td>Argon</td>
<td>10 - 50 SCHF</td>
<td>CGA 580</td>
<td>5/8&quot; - 18 RH Internal</td>
</tr>
</tbody>
</table>

* 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, CO₂, Helium, or General/Any Gas.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Used</th>
<th>Flow Range</th>
<th>Tube No.</th>
<th>Inlet Connection</th>
<th>Outlet Connection</th>
<th>Preset Delivery Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1103E</td>
<td>Argon/ CO₂</td>
<td>0-80 SCFH</td>
<td>13220</td>
<td>1/4” NPT male</td>
<td>5/8&quot; - 18 RH Internal</td>
<td>80 PSIG</td>
</tr>
<tr>
<td>H1230E</td>
<td>Argon/ CO₂</td>
<td>Various</td>
<td>14254</td>
<td>1/4” NPT male</td>
<td>5/8&quot; - 18 RH Internal</td>
<td>30 PSIG</td>
</tr>
</tbody>
</table>

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

**NOTE:** When using Argon/CO₂ 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>H743</td>
<td>Regulator Mount ( for use with CGA “B” male fitting)</td>
<td>Oxygen and fuel gas pair</td>
</tr>
<tr>
<td>H753</td>
<td>Torch Mount (high flow)</td>
<td>Oxygen and fuel gas pair</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WDW100</td>
<td>Standard Gasaver™ for use of MAPP® or propylene gas and oxygen.</td>
</tr>
<tr>
<td>WDW101</td>
<td>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.</td>
</tr>
<tr>
<td>WDW103</td>
<td>Equipped with separate pilot fuel inlet for use with low pressure gas with injector type torches. Separate source of high pressure pilot gas required.</td>
</tr>
<tr>
<td>WDW104</td>
<td>Standard Gasaver™ equipped with Pilot Light for use with propane or natural gas at 2 PSI or more.</td>
</tr>
</tbody>
</table>

Gasaver™ Replacement Parts

<table>
<thead>
<tr>
<th>Reference No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Quantity Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WDW9303</td>
<td>Body</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>WDW84461</td>
<td>Seat</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>WDW9326</td>
<td>Lower saddle spring button</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>WDW7809</td>
<td>Spring</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>WDW15421</td>
<td>Rod assembly, plunger</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>14613-18</td>
<td>O-ring</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>WDW6183</td>
<td>Plunger rod bushing</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>WDW6045</td>
<td>Packing nut</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>13897</td>
<td>Oxygen inlet/outlet</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>WDI030128</td>
<td>Water inlet/outlet</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>13896</td>
<td>Gas inlet/outlet</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>4872</td>
<td>Inert inlet/outlet</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>WDW9286</td>
<td>Lever</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>WDW9315</td>
<td>Pinion rod</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>WDW880510</td>
<td>Saddle</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>WDW7730</td>
<td>Lever rod lock screw</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>WDW7736</td>
<td>Adjusting screw</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>15163</td>
<td>Pilot light tube</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>WDW17401</td>
<td>Pilot - MAPP®-W-100</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>WDW1507</td>
<td>Pilot light - acetylene-W-101</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>WDW9324</td>
<td>Lava pilot light tip</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>WDW6702</td>
<td>Pilot base for W-103</td>
<td>1</td>
</tr>
<tr>
<td>22</td>
<td>7613</td>
<td>Set screw for W-103</td>
<td>1</td>
</tr>
<tr>
<td>23</td>
<td>WDW1506</td>
<td>Pilot adapter W-103</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>WDW1508</td>
<td>Pilot light, natural gas W-103; W-104</td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td>WDW1533</td>
<td>Pilot light assembly for W-103</td>
<td>1</td>
</tr>
<tr>
<td>26</td>
<td>WDW15661</td>
<td>Plunger assembly</td>
<td>1</td>
</tr>
<tr>
<td>27</td>
<td>WDW10005</td>
<td>Saddle assembly</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>WDL6071</td>
<td>Orifice</td>
<td>1</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Gases</th>
<th>Adjustment % Range</th>
<th>Required Inlet Pressure/Gas PSIG/Bar</th>
<th>Outlet Pressure Without Flow PSIG/Bar</th>
<th>Flow Rate SCFH LPM</th>
<th>Inlet Fittings</th>
<th>Outlet Fittings</th>
</tr>
</thead>
<tbody>
<tr>
<td>299-006-1B</td>
<td>2 gas mixer std. capacity 180 SCFH</td>
<td>Argon, CO₂</td>
<td>0-100% 100-0%</td>
<td>55-100 3.79-14.5</td>
<td>45 3.1</td>
<td>10-180 4.8-85.7</td>
<td>5/8&quot;-18 RH internal</td>
<td>5/8&quot;-18 RH internal</td>
</tr>
<tr>
<td>299-006-3B</td>
<td>2 gas mixer std. capacity 180 SCFH</td>
<td>Argon, Helium</td>
<td>0-100% 100-0%</td>
<td>55-100 3.79-14.5</td>
<td>45 3.1</td>
<td>10-180 4.8-85.7</td>
<td>5/8&quot;-18 RH internal</td>
<td>5/8&quot;-18 RH internal</td>
</tr>
<tr>
<td>299-011-1B</td>
<td>2 gas mixer std. capacity 180 SCFH</td>
<td>Argon, Hydrogen</td>
<td>50-100% 50-0%</td>
<td>55-100 3.79-14.5</td>
<td>45 3.1</td>
<td>10-180 4.8-85.7</td>
<td>5/8&quot;-18 RH internal</td>
<td>5/8&quot;-18 RH internal</td>
</tr>
<tr>
<td>299-016-1B</td>
<td>2 gas mixer high capacity 700 SCFH</td>
<td>Argon, CO₂</td>
<td>0-100% 100-0%</td>
<td>105-115 7.3-7.9</td>
<td>50 3.45</td>
<td>20-700 9.4-330</td>
<td>1/4&quot; FNPT</td>
<td>1/2&quot; FNPT</td>
</tr>
<tr>
<td>299-016-16B</td>
<td>2 gas mixer high capacity 700 SCFH</td>
<td>Argon, Hydrogen</td>
<td>50-100% 50-0%</td>
<td>105-115 7.3-7.9</td>
<td>50 3.45</td>
<td>20-700 9.4-330</td>
<td>1/4&quot; FNPT</td>
<td>1/2&quot; FNPT</td>
</tr>
<tr>
<td>299-039B</td>
<td>3 gas mixer std. capacity 180 SCFH</td>
<td>Argon, Oxygen CO₂</td>
<td>85-100% 0-15% 0-15%</td>
<td>105-115 7.3-7.9</td>
<td>50 3.45</td>
<td>10-180 4.8-85.7</td>
<td>5/8&quot;-18 RH internal</td>
<td>5/8&quot;-18 RH internal</td>
</tr>
</tbody>
</table>
### 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.
- CA 3500 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.
### Specification & Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Torch Handle</th>
<th>Welding Nozzle</th>
<th>Cutting Attachment</th>
<th>Cutting Tip</th>
<th>Heating Nozzle</th>
<th>Oxygen Regulators</th>
<th>Fuel Gas Regulator</th>
<th>Accessories</th>
<th>Replaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>0384-2009</td>
<td>Journeyman® H315FC</td>
<td>(W) 1,3,5</td>
<td>CA 2460</td>
<td>1-1-101</td>
<td>8-MFA</td>
<td>CSR 450D-540</td>
<td>CSR460A-510</td>
<td></td>
<td></td>
<td>0384-2009</td>
</tr>
<tr>
<td>0384-2011</td>
<td>Journeyman® H315FC</td>
<td>(W) 1,3,5</td>
<td>CA 2460</td>
<td>1-1-101</td>
<td>8-MFA</td>
<td>CSR 450D-540</td>
<td>CSR460A-300</td>
<td></td>
<td></td>
<td>0384-2011</td>
</tr>
<tr>
<td>0384-2020</td>
<td>Journeyman II™ 315FC</td>
<td>(W) 2</td>
<td>CA 2460</td>
<td>1-1-101</td>
<td>CSR 450D-540</td>
<td>CSR460A-510</td>
<td></td>
<td></td>
<td></td>
<td>0384-2020</td>
</tr>
<tr>
<td>0384-2021</td>
<td>Journeyman II™ 315FC</td>
<td>(W) 2</td>
<td>CA 2460</td>
<td>1-1-101</td>
<td>CSR 450D-540</td>
<td>CSR460A-300</td>
<td></td>
<td></td>
<td></td>
<td>0384-2021</td>
</tr>
<tr>
<td>0384-0834</td>
<td>SuperRange II™ 100FC</td>
<td>(W-1) 2</td>
<td>CA 1350</td>
<td>0-3-101</td>
<td>CSR 350D-540</td>
<td>CSR360A-510</td>
<td></td>
<td></td>
<td></td>
<td>0384-0834</td>
</tr>
<tr>
<td>0384-0836</td>
<td>SuperRange II™ 100FC</td>
<td>(W-1) 2</td>
<td>CA 1350</td>
<td>0-3-101</td>
<td>CSR 350D-540</td>
<td>CSR360A-300</td>
<td></td>
<td></td>
<td></td>
<td>0384-0836</td>
</tr>
<tr>
<td>0384-0839</td>
<td>SuperRange II™ 100FC</td>
<td>(W-1) 2</td>
<td>CA 1350</td>
<td>0-3-101</td>
<td>6-MFA</td>
<td>CSR 350D-540</td>
<td>CSR360A-510</td>
<td></td>
<td></td>
<td>0384-0839</td>
</tr>
<tr>
<td>0384-0822</td>
<td>SuperRange II™ 100FC</td>
<td>(W-1) 2</td>
<td>CA 1350</td>
<td>0-3-101</td>
<td>6-MFA</td>
<td>CSR 350D-540</td>
<td>CSR360A-300</td>
<td></td>
<td></td>
<td>0384-0822</td>
</tr>
<tr>
<td>0384-0865</td>
<td>Performer® 100FC</td>
<td>(W-1) 2</td>
<td>CA 1350</td>
<td>0-3-101</td>
<td>CSR 250C-540</td>
<td>CSR260A-510</td>
<td></td>
<td></td>
<td></td>
<td>0384-0865</td>
</tr>
<tr>
<td>0384-0867</td>
<td>Performer® 100FC</td>
<td>(W-1) 2</td>
<td>CA 1350</td>
<td>0-3-101</td>
<td>CSR 250C-540</td>
<td>CSR260A-300</td>
<td></td>
<td></td>
<td></td>
<td>0384-0867</td>
</tr>
</tbody>
</table>

### Portable Torch Kit™ Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Torch Handle</th>
<th>Welding Nozzle</th>
<th>Cutting Attachment</th>
<th>Cutting Tip</th>
<th>Heating Nozzle</th>
<th>Oxygen Regulators</th>
<th>Fuel Gas Regulator</th>
<th>Accessories</th>
<th>Replaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>0384-0936</td>
<td>With cylinder 100FC</td>
<td>(W-1) 1, 3, 5</td>
<td>CA 1350</td>
<td>0-3-101</td>
<td>-</td>
<td>CSR 150CF-540</td>
<td>CSR160AR (MC)</td>
<td></td>
<td></td>
<td>0384-0936</td>
</tr>
<tr>
<td>0384-0935</td>
<td>Without cylinder 100FC</td>
<td>(W-1) 1, 3, 5</td>
<td>CA 1350</td>
<td>0-3-101</td>
<td>-</td>
<td>CSR 150CF-540</td>
<td>CSR160AR (MC)</td>
<td></td>
<td></td>
<td>0384-0935</td>
</tr>
</tbody>
</table>

---

### Safety First!

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torch Handle</th>
<th>Cutting Attachment</th>
<th>Multi-flame Heating Assembly</th>
<th>Cutting Tip (Propane)</th>
<th>Cutting Tip (Propylene or MAPP)</th>
<th>Oxygen Regulators</th>
<th>Fuel Gas Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>0384-2022</td>
<td>H315FC</td>
<td>CA2460</td>
<td>8-Type 55</td>
<td>1-GPN</td>
<td>1-1-303MP</td>
<td>CSR450D-540</td>
<td>CSR461B-510</td>
</tr>
<tr>
<td>0384-2023</td>
<td>H315FC</td>
<td>CA2460</td>
<td>8-Type 55</td>
<td>1-GPN</td>
<td>1-1-303MP</td>
<td>CSR450D-300</td>
<td>CSR461B-300</td>
</tr>
<tr>
<td>0384-2024</td>
<td>H315FC</td>
<td>CA2460</td>
<td>8-Type 55</td>
<td>1-GPN</td>
<td>1-1-303MP</td>
<td>CSR450D-992</td>
<td>CSR461B-993</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torch Handle</th>
<th>Cutting Attachment</th>
<th>Oxygen Regulators</th>
<th>Fuel Gas Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>0384-0812</td>
<td>315FC</td>
<td>CA 2460</td>
<td>CSR 450D-540</td>
<td>CSR460A-510</td>
</tr>
<tr>
<td>0384-0813</td>
<td>315FC</td>
<td>CA 2461</td>
<td>CSR 450D-540</td>
<td>CSR460A-510</td>
</tr>
<tr>
<td>0384-0814</td>
<td>315FC</td>
<td>CA 2460</td>
<td>CSR 450D-540</td>
<td>CSR460A-300</td>
</tr>
<tr>
<td>0384-0816</td>
<td>315FC</td>
<td>CA 2460</td>
<td>CSR 450D-540</td>
<td>CSR461B-510LP</td>
</tr>
</tbody>
</table>

**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).

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torch Handle</th>
<th>Cutting Attachment</th>
<th>Oxygen Regulators</th>
<th>Fuel Gas Regulator</th>
</tr>
</thead>
<tbody>
<tr>
<td>0384-2603</td>
<td>WH370FC-V</td>
<td>CA 370-V</td>
<td>CS 450-510</td>
<td>CS 460-510</td>
</tr>
<tr>
<td>0384-2604</td>
<td>WH370FC-V</td>
<td>CA 370-V</td>
<td>CS 450-300</td>
<td>CS 460-300</td>
</tr>
<tr>
<td>0384-2605</td>
<td>WH370FC-V</td>
<td>CA 370-V</td>
<td>CS 450-992</td>
<td>CS 460-993</td>
</tr>
</tbody>
</table>
"Cutter Select™" Cutting Outfits

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

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

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).
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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Description</th>
<th>Hose Connection</th>
<th>Gas</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0382-0034</td>
<td>315FC</td>
<td>Boxed</td>
<td>9/16”-18</td>
<td>All</td>
<td>18 oz.</td>
<td>9”</td>
</tr>
</tbody>
</table>

High Flow Torch Handle

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Description</th>
<th>Hose Connection</th>
<th>Gas</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0382-0316</td>
<td>H315FC</td>
<td>Boxed</td>
<td>9/16”-18</td>
<td>All</td>
<td>18 oz.</td>
<td>9”</td>
</tr>
</tbody>
</table>

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™

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Cutting Range</th>
<th>Tip Series</th>
<th>Head Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>0381-0816</td>
<td>CA2460</td>
<td>8”/200 mm</td>
<td>1</td>
<td>90˚</td>
</tr>
<tr>
<td>0381-0817</td>
<td>CA2461</td>
<td>8”/200 mm</td>
<td>1</td>
<td>75˚</td>
</tr>
<tr>
<td>0381-0818</td>
<td>CA2462</td>
<td>8”/200 mm</td>
<td>1</td>
<td>180˚</td>
</tr>
</tbody>
</table>

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

Design and Construction

- Stainless Steel Tubes for added torch strength and heat resistance
- Smooth Cutting Oxygen Valve for precise ease-on control (push type)
- Stainless Steel Lever for extra durability & operator safety
- Stainless Steel Lever for extra durability & operator safety
- Brass Coupling Nut & Double “O” Ring Seal gives quick gas-tight seal without a tightening wrench
- Forged Brass Body
- Spiral Mixer blends oxygen and fuel for optimum performance
- Die-Forged Brass Head for maximum durability
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Hose Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0382-0136</td>
<td>WH370FC-FS</td>
<td>Clamshell</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Hose Description</th>
<th>Cutting Range</th>
<th>Tip Series</th>
<th>Head Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>0381-0744</td>
<td>CA350-FS</td>
<td>Clamshell</td>
<td>6”/150mm</td>
<td>1-101</td>
<td>90°</td>
</tr>
</tbody>
</table>

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.
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 flash 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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Hose Description</th>
<th>Connection</th>
<th>Gas</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0382-0032</td>
<td>100FC</td>
<td>Boxed</td>
<td>9/16”-18</td>
<td>All</td>
<td>14 oz.</td>
<td>8-1/2”</td>
</tr>
</tbody>
</table>

*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.

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Hose Description</th>
<th>Cutting Range</th>
<th>Tip Series</th>
<th>Head Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>0381-0418</td>
<td>CA1350</td>
<td>Boxed</td>
<td>6’/150 mm</td>
<td>3</td>
<td>90°</td>
</tr>
<tr>
<td>0381-0420</td>
<td>CA1351</td>
<td>Boxed</td>
<td>6’/150 mm</td>
<td>3</td>
<td>75°</td>
</tr>
<tr>
<td>0381-0421</td>
<td>CA1352</td>
<td>Boxed</td>
<td>6’/150 mm</td>
<td>3</td>
<td>180°</td>
</tr>
</tbody>
</table>

*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.

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Hose Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0382-0143</td>
<td>WH270FC-FS</td>
<td>Clamshell</td>
</tr>
</tbody>
</table>

*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.
FirePower® Cutting Attachment - Medium-Duty

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Hose Description</th>
<th>Cutting Range</th>
<th>Tip Series</th>
<th>Head Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>0381-0740</td>
<td>CA250-FS</td>
<td>Clamshell</td>
<td>3&quot;/76.2mm</td>
<td>3-101</td>
<td>90°</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Hose Connection</th>
<th>Gas</th>
<th>Weight</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0382-0006</td>
<td>J-40</td>
<td>3/24&quot;-18</td>
<td>All</td>
<td>5-1/2 oz.</td>
<td>3-3/4&quot;</td>
</tr>
<tr>
<td>0382-0127</td>
<td>J-28*</td>
<td>3/24&quot;-18</td>
<td>All</td>
<td>8-1/2 oz.</td>
<td>6'</td>
</tr>
</tbody>
</table>

* 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

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. (0.4 kg).

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Cutting Range</th>
<th>Tip Series</th>
<th>Head Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>0381-0162</td>
<td>CA1260</td>
<td>3&quot;/75 mm</td>
<td>3</td>
<td>90°</td>
</tr>
</tbody>
</table>

* 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.
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](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Application and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0323-0328</td>
<td>8</td>
<td>High capacity heating head.</td>
</tr>
<tr>
<td>0323-0324</td>
<td>10*</td>
<td>Sizes 10, 15, &amp; 20</td>
</tr>
<tr>
<td>0323-0325</td>
<td>15*</td>
<td></td>
</tr>
<tr>
<td>0323-0326</td>
<td>20*</td>
<td>Use HD 310C (length 28”) series torch handle &amp; 3/8” hose.</td>
</tr>
</tbody>
</table>

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

Type 55 Components

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Application/Description</th>
<th>Available Size</th>
<th>Available Length</th>
<th>Available Angles</th>
</tr>
</thead>
<tbody>
<tr>
<td>0311-0241</td>
<td>Multi-Flame Heads (Only)</td>
<td>8</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0311-0230</td>
<td></td>
<td>10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0311-0231</td>
<td></td>
<td>15</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0311-0232</td>
<td></td>
<td>20</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0304-0094</td>
<td>Multi-Flame Elbows</td>
<td>-</td>
<td>28˚</td>
<td>180˚</td>
</tr>
<tr>
<td>0304-0011</td>
<td></td>
<td>-</td>
<td>26˚</td>
<td>65˚</td>
</tr>
</tbody>
</table>

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

Model MFA
Acetylene or Hydrogen

![Model MFA](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Application and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0323-0250</td>
<td>4</td>
<td>Multi-flame heating head for heat treating, straightening &amp; priming.</td>
</tr>
<tr>
<td>0323-0251</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>0323-0252</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>0323-0260</td>
<td>10</td>
<td>Sizes 4-8 (length 12”)</td>
</tr>
<tr>
<td>0323-0261</td>
<td>12*</td>
<td>Size 10-15 (length 17-1/2”)</td>
</tr>
<tr>
<td>0323-0262</td>
<td>15*</td>
<td></td>
</tr>
</tbody>
</table>

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

Model MFN
Propane & Natural Gas

![Model MFN](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Application and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0323-0292</td>
<td>8</td>
<td>Multi-flame heating head for pre-heating, priming, straightening, etc.</td>
</tr>
<tr>
<td>0323-0302</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>0323-0303</td>
<td>12*</td>
<td></td>
</tr>
<tr>
<td>0323-0304</td>
<td>15*</td>
<td></td>
</tr>
<tr>
<td>0323-0305</td>
<td>20*</td>
<td></td>
</tr>
</tbody>
</table>

*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.
Multi-Flame Welding Nozzles - Heavy-Duty
For Use with 300 Series Torch Handles

Model W
Acetylene and Hydrogen

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

Heating Nozzles - Medium-Duty
Use with 100 Series Torch Handles

Model MFA-1
Acetylene or Hydrogen

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Application and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0324-0108</td>
<td>2</td>
<td>Multi-flame heating head for pre-heating, priming &amp; straightening Sizes 2, 4, 6, 8 (length 12&quot;)</td>
</tr>
<tr>
<td>0324-0109</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>0324-0110</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>0324-0111</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Model MFN-1
Natural Gas & Propane

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Application and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0324-0117</td>
<td>6</td>
<td>Multi-flame heating head for pre-heating, priming, straightening, etc. (length 12&quot;)</td>
</tr>
</tbody>
</table>

Model W-1

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Application &amp; Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0324-0068</td>
<td>000</td>
<td>General purpose welding &amp; pre-heating.</td>
</tr>
<tr>
<td>0324-0069</td>
<td>00</td>
<td>One piece copper elbow tip.</td>
</tr>
<tr>
<td>0324-0070</td>
<td>0</td>
<td>Long cone flame</td>
</tr>
<tr>
<td>0324-0071</td>
<td>1</td>
<td>Sizes 000-7 (length 4-1/2&quot;)</td>
</tr>
<tr>
<td>0324-0072</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>0324-0073</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>0324-0074</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>0324-0075</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>0324-0076</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>0324-0077</td>
<td>7</td>
<td></td>
</tr>
</tbody>
</table>
### Welding Nozzles - Light-Duty

**For Use with J Series Torch Handles**

**Model W-J**

Acetylene and Hydrogen

- **65˚**

**W-J (Elbow Only)**

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Application and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0325-0082</td>
<td>00</td>
<td>General purpose welding &amp; pre-heating.</td>
</tr>
<tr>
<td>0325-0083</td>
<td>0</td>
<td>One piece copper elbow tip</td>
</tr>
<tr>
<td>0325-0084</td>
<td>1</td>
<td>Long cone flame</td>
</tr>
<tr>
<td>0325-0085</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>0325-0086</td>
<td>3</td>
<td>Sizes 000-4 (Length 14-1/2&quot;)</td>
</tr>
<tr>
<td>0325-0087</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Size</th>
<th>Application and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0311-0124</td>
<td>00</td>
<td>General purpose welding &amp; pre-heating.</td>
</tr>
<tr>
<td>0311-0125</td>
<td>0</td>
<td>One piece copper elbow tip</td>
</tr>
<tr>
<td>0311-0126</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>0311-0127</td>
<td>2</td>
<td>Long cone flame</td>
</tr>
<tr>
<td>0311-0128</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

---

### Multi-Flame Heating Nozzle Data

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

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

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

<table>
<thead>
<tr>
<th>Tip Size</th>
<th>Oxygen Pressure (PSIG)</th>
<th>Fuel Pressure (PSIG)</th>
<th>Oxygen Consumption</th>
<th>Fuel Consumption (SCFH)</th>
<th>BTU per Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>8/12</td>
<td>6/10</td>
<td>7/22</td>
<td>6/20</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>10/15</td>
<td>8/12</td>
<td>15/44</td>
<td>14/40</td>
<td></td>
</tr>
<tr>
<td>8*</td>
<td>20/30</td>
<td>10/15</td>
<td>33/88</td>
<td>30/80</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>30/40</td>
<td>12/15</td>
<td>44/110</td>
<td>40/100</td>
<td></td>
</tr>
<tr>
<td>12*</td>
<td>50/60</td>
<td>12/15</td>
<td>66/165</td>
<td>60/150</td>
<td></td>
</tr>
<tr>
<td>15*</td>
<td>50/60</td>
<td>12/15</td>
<td>99/244</td>
<td>90/220</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Tip Size</th>
<th>Oxygen Pressure (PSIG)</th>
<th>Fuel Pressure (PSIG)</th>
<th>Oxygen Consumption</th>
<th>Fuel Consumption (SCFH)</th>
<th>BTU per Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>8/20</td>
<td>2/10</td>
<td>20/80</td>
<td>5.5/20</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>10/20</td>
<td>10/15</td>
<td>40/140</td>
<td>10/35</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>10/30</td>
<td>12/20</td>
<td>80/320</td>
<td>20/80</td>
<td></td>
</tr>
<tr>
<td>12*</td>
<td>30/125</td>
<td>15/25</td>
<td>200/800</td>
<td>50/200</td>
<td></td>
</tr>
<tr>
<td>15*</td>
<td>30/125</td>
<td>15/25</td>
<td>200/800</td>
<td>50/200</td>
<td></td>
</tr>
<tr>
<td>20*</td>
<td>40/135</td>
<td>15/25</td>
<td>300/1000</td>
<td>75/250</td>
<td></td>
</tr>
</tbody>
</table>

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

---

**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.

---

Victor Equipment
Vendor Code: VIC

[www.middlesexgases.com](http://www.middlesexgases.com)
Multi-Gas Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torch Series</th>
<th>Type</th>
<th>Fuel Gas Usage</th>
<th>Application and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0323-0192</td>
<td>300*</td>
<td>DFE</td>
<td>Multi-Gas Fuel Service</td>
<td>Dual flexible elbow nozzle assembly for special welding, heating, brazing needs. Uses replaceable tip ends.</td>
</tr>
<tr>
<td>0324-0092</td>
<td>100**</td>
<td>DFE-1</td>
<td>Multi-Gas Fuel Service</td>
<td>Dual flexible elbow nozzle assembly for special welding, heating, brazing needs. Uses replaceable tip ends.</td>
</tr>
<tr>
<td>0323-0242</td>
<td>300*</td>
<td>UN</td>
<td>Multi-Gas Fuel Service</td>
<td>Standard bend nozzle for welding, heating, and brazing. Uses replaceable tip ends.</td>
</tr>
</tbody>
</table>

*Use with 315FC, HD310C  **Use with 100FC Torch Handles  ***Use with J-28 Torch Handle

Oxy-Acetylene Universal Mixer Nozzle

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Torch Series</th>
<th>Type</th>
<th>Fuel Gas Usage</th>
<th>Application and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0323-0329</td>
<td>300*</td>
<td>0-UM-350</td>
<td>Oxy-Acetylene</td>
<td>Oxy-Acetylene universal mixers used with exact performance &amp; individual nozzles are not needed. Uses replaceable tip ends.</td>
</tr>
<tr>
<td>0328-0005</td>
<td>100*</td>
<td>4-UM-1</td>
<td>Oxy-Acetylene</td>
<td>Oxy-Acetylene universal mixers used with exact performance &amp; individual nozzles are not needed. For use with replaceable elbow tips; Type ET</td>
</tr>
</tbody>
</table>

*Use with 315FC, HD310C  **Use with 100FC Torch Handles
# Straight Cutting Torches & Cutting Machine Reference Guide

<table>
<thead>
<tr>
<th>Torch Model</th>
<th>Tip Usage</th>
<th>Fuel Gas Usage</th>
<th>Cut Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>“FC” Models</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ST2600FC VanGuard™</td>
<td>Series 1</td>
<td>Any Fuel Gas</td>
<td>1/8”/3.25mm to 8’/203mm</td>
</tr>
<tr>
<td>ST1000FC VanGuard™</td>
<td>Series 1</td>
<td>Any Fuel Gas</td>
<td>1/8”/3.25mm to 5’/127mm</td>
</tr>
<tr>
<td>ST900FC VanGuard™</td>
<td>Series 1</td>
<td>Any Fuel Gas</td>
<td>1/8”/3.25mm to 5’/127mm</td>
</tr>
<tr>
<td>CST800FC VanGuard™</td>
<td>Series 3</td>
<td>Any Fuel Gas</td>
<td>1/8”/3.25mm to 4’/102mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Machine Torches</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MT 200</td>
<td>2 Hose Series 1</td>
<td>LP/NG**, ACET.*</td>
<td>7’/179 mm</td>
</tr>
<tr>
<td>MT 300</td>
<td>3 Hose Series 1</td>
<td>LP/NG**, ACET.*</td>
<td>12’/305mm</td>
</tr>
<tr>
<td>MT 1065</td>
<td>3 Hose Series 1</td>
<td>ACET.</td>
<td>7’/179 mm</td>
</tr>
<tr>
<td>MT 5</td>
<td>3 Hose Series 1</td>
<td>ALL</td>
<td>7’/179 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mill &amp; Foundry Torches</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HC 1400</td>
<td>Series HDNL</td>
<td>Butane, Propane, NG</td>
<td>30’/76.2 mm</td>
</tr>
<tr>
<td>HC 1500</td>
<td>Series 2-285N</td>
<td>NG, Propane</td>
<td>48’/1230 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cutting Machines</th>
<th>Length</th>
<th>Circle</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCM 200</td>
<td>72’/1.83 m</td>
<td>96’/2.44 m</td>
</tr>
<tr>
<td>Auto 24</td>
<td>2’ x 2’</td>
<td>600 mm x 600 mm</td>
</tr>
</tbody>
</table>

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

---

**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.

---

On the job... CAN make all the difference.

---

the proper tools
**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”.

- **Die-forged brass head** for maximum durability.
- **Stainless steel tubes** for greater strength & durability.
- **Universal gas mixer** gives top performance with any fuel gas.
- **Built-in reverse flow check valve** for added operator safety.
- **Stainless steel cutting oxygen lever** for extra durability & operator comfort.
- **Built-in flashback arrestors** for added safety.
- **Ribbed brass handle** for sure grip & operator comfort.
- **Smooth cutting oxygen valve** provides precise low-to-full flow oxygen control.

**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”™**

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

Note: Other torch models available. Ask for details.

(Model ST2600FC illustrated)

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

---

**Victor® “Universal Torches”**

**Part No.**

- 0381-1486
- 0381-1487
- 0381-1480
- 0381-1482
- 0381-1484
- 0381-1496
- 0381-1498
- 0381-1500
- 0381-1502
- 0381-1503
- 0381-1504
- 0381-1506
- 0381-1508
- 0381-1510

**Model No.**

- SST 2600FC
- SST 2601FC
- ST 2600FC
- ST 2601FC
- ST 2602FC
- ST 2630FC
- ST 2631FC
- ST 2632FC
- ST 2650FC
- ST 2651FC
- ST 2652FC
- ST 2670FC
- ST 2671FC
- ST 2672FC

**Lever Position**

- Top rear

**Tip Series**

- 1

**Head Angle**

- 90°
- 75°
- 180°

**Length**

- 17”/43cm
- 17”/43cm
- 21”/53cm
- 21”/53cm
- 21”/53cm
- 36”/91cm
- 36”/91cm
- 36”/91cm
- 48”/122cm
- 48”/122cm
- 72”/184cm
- 72”/184cm
- 72”/184cm
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

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

Note: Other torch models available. Ask for details.

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Lever Position</th>
<th>Tip Series</th>
<th>Head Angle</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0381-1620</td>
<td>SST 900FC</td>
<td>Top front</td>
<td>3</td>
<td>90°</td>
<td>17”/43 cm</td>
</tr>
<tr>
<td>0381-1621</td>
<td>SST 901FC</td>
<td>Top front</td>
<td>3</td>
<td>75°</td>
<td>17”/43 cm</td>
</tr>
<tr>
<td>0381-1622</td>
<td>ST 900FC</td>
<td>Top front</td>
<td>3</td>
<td>90°</td>
<td>21”/53 cm</td>
</tr>
<tr>
<td>0381-1623</td>
<td>ST 901FC</td>
<td>Top front</td>
<td>3</td>
<td>75°</td>
<td>21”/53 cm</td>
</tr>
<tr>
<td>0381-1624</td>
<td>ST 930FC</td>
<td>Top front</td>
<td>3</td>
<td>90°</td>
<td>36”/91 cm</td>
</tr>
<tr>
<td>0381-1625</td>
<td>ST 931FC</td>
<td>Top front</td>
<td>3</td>
<td>75°</td>
<td>36”/91 cm</td>
</tr>
<tr>
<td>0381-1626</td>
<td>ST 932FC</td>
<td>Top front</td>
<td>3</td>
<td>180°</td>
<td>36”/91 cm</td>
</tr>
<tr>
<td>0381-1629</td>
<td>ST 950FC</td>
<td>Top front</td>
<td>3</td>
<td>90°</td>
<td>48”/122 cm</td>
</tr>
<tr>
<td>0381-1630</td>
<td>ST 951FC</td>
<td>Top front</td>
<td>3</td>
<td>75°</td>
<td>48”/122 cm</td>
</tr>
</tbody>
</table>

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”/102 mm.
- Built-in reverse flow check valves.
- Uses series 3 cutting tips.
- Hose connections are 9/16”-18”.

Outfits with “FC” Models VanGuard™ Series

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Lever Position</th>
<th>Tip Series</th>
<th>Head Angle</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>0381-0392</td>
<td>CST 800FC</td>
<td>Top front</td>
<td>3</td>
<td>90°</td>
<td>17”/43 cm</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Total Length</th>
<th>Barrel Length</th>
<th>Racking Length</th>
<th>Gas</th>
<th>Cutting Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0380-0215</td>
<td>MT 204A</td>
<td>8-1/2”/203 mm</td>
<td>4-1/2”/104 mm</td>
<td>N/A</td>
<td>ACET*</td>
<td>7”/176 mm</td>
</tr>
<tr>
<td>0380-0217</td>
<td>MT 210A</td>
<td>14”/355 mm</td>
<td>10”/252 mm</td>
<td>7”/176 mm</td>
<td>ACET*</td>
<td>7”/176 mm</td>
</tr>
<tr>
<td>0380-0216</td>
<td>MT 210N</td>
<td>14”/355 mm</td>
<td>10”/252 mm</td>
<td>7”/176 mm</td>
<td>LP/NG**</td>
<td>7”/176 mm</td>
</tr>
</tbody>
</table>

Model MT 300 Series - 3 Hose Torches

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Total Length</th>
<th>Barrel Length</th>
<th>Racking Length</th>
<th>Gas</th>
<th>Cutting Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0380-0222</td>
<td>MT 310A</td>
<td>14”/355 mm</td>
<td>10”/252 mm</td>
<td>7”/180 mm</td>
<td>ACET*</td>
<td>12”/305 mm</td>
</tr>
<tr>
<td>0380-0220</td>
<td>MT 310N</td>
<td>14”/355 mm</td>
<td>10”/252 mm</td>
<td>7”/180 mm</td>
<td>LP/NG**</td>
<td>12”/305 mm</td>
</tr>
<tr>
<td>0380-0221</td>
<td>MT 310NV</td>
<td>14”/355 mm</td>
<td>10”/252 mm</td>
<td>7”/180 mm</td>
<td>LP/NG**</td>
<td>12”/305 mm</td>
</tr>
<tr>
<td>0380-0223</td>
<td>MT 310AV</td>
<td>14”/355 mm</td>
<td>10”/252 mm</td>
<td>7”/180 mm</td>
<td>ACET*</td>
<td>12”/305 mm</td>
</tr>
<tr>
<td>0380-0227</td>
<td>MT 316A</td>
<td>221/2”/585 mm</td>
<td>18”/460 mm</td>
<td>15”/375 mm</td>
<td>ACET</td>
<td>12”/305 mm</td>
</tr>
<tr>
<td>0380-0228</td>
<td>MT 318AV</td>
<td>221/2”/585 mm</td>
<td>18”/460 mm</td>
<td>15”/375 mm</td>
<td>ACET*</td>
<td>12”/305 mm</td>
</tr>
<tr>
<td>0380-0225</td>
<td>MT 318N</td>
<td>221/2”/585 mm</td>
<td>18”/460 mm</td>
<td>15”/375 mm</td>
<td>LP/NG**</td>
<td>12”/305 mm</td>
</tr>
<tr>
<td>0380-0226</td>
<td>MT 318NV</td>
<td>221/2”/585 mm</td>
<td>18”/460 mm</td>
<td>15”/375 mm</td>
<td>LP/NG**</td>
<td>12”/305 mm</td>
</tr>
</tbody>
</table>

*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

The Check Valve
Prevents the reverse flow of gases

Accessory reverse slow check valves supplied with all machine torches for added operator safety.
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.

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.

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 3-1/4”/8.3cm with proper nozzle (W-1).
- Two year warranty.

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

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.

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.
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’/138 mm (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.

Part No. Description
0200-0220 VCM 200
0200-0240 VCM 200HT*
0200-0221 VCM 201

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

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

VCM 00 Series Accessories

Model BHA
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 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.
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).

**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).

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0384-2600</td>
<td>Outfit (510)</td>
</tr>
<tr>
<td>0384-2601</td>
<td>Outfit (300)</td>
</tr>
<tr>
<td>0384-2602</td>
<td>Outfit (992-993)*</td>
</tr>
</tbody>
</table>

* British Fitting
One Piece Acetylene Cutting Tips

**Series 1 1-101**
General purpose hand & machine torch cutting.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>0330-0003</td>
</tr>
<tr>
<td>00</td>
<td>0330-0004</td>
</tr>
<tr>
<td>0</td>
<td>0330-0013</td>
</tr>
<tr>
<td>1</td>
<td>0330-0014</td>
</tr>
<tr>
<td>2</td>
<td>0330-0015</td>
</tr>
<tr>
<td>3</td>
<td>0330-0016</td>
</tr>
<tr>
<td>4</td>
<td>0330-0017</td>
</tr>
<tr>
<td>5</td>
<td>0330-0018</td>
</tr>
</tbody>
</table>

*Clamshell package

**Series 3 3-101**
General purpose hand & machine torch cutting.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>0331-0002</td>
</tr>
<tr>
<td>00</td>
<td>0331-0009</td>
</tr>
<tr>
<td>00</td>
<td>0387-0144*</td>
</tr>
<tr>
<td>0</td>
<td>0331-0013</td>
</tr>
<tr>
<td>1</td>
<td>0331-0014</td>
</tr>
<tr>
<td>2</td>
<td>0331-0015</td>
</tr>
<tr>
<td>3</td>
<td>0331-0016</td>
</tr>
<tr>
<td>4</td>
<td>0331-0017</td>
</tr>
<tr>
<td>5</td>
<td>0331-0018</td>
</tr>
</tbody>
</table>

*Clamshell package

**Series 1 1-101L**
General purpose extra length tips.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0330-0531</td>
</tr>
<tr>
<td>6</td>
<td>0330-0535</td>
</tr>
</tbody>
</table>

**Series 1 1-108**
Boiler tube removal. Tip is short to insert head & tip inside tube.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0330-0058</td>
</tr>
<tr>
<td>1</td>
<td>0330-0059</td>
</tr>
<tr>
<td>2</td>
<td>0330-0063</td>
</tr>
<tr>
<td>3</td>
<td>0330-0064</td>
</tr>
<tr>
<td>4</td>
<td>0330-0065</td>
</tr>
</tbody>
</table>

**Series 1 1-112**
Cutting close to bulkheads and hand cutting of river heads. Machine cutting 45° with torch perpendicular.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0330-0086</td>
</tr>
</tbody>
</table>

**Series 1 1-118 & 3 3-118**
Deseaming, scarfing, gouging, wild preparation, removing defective welds and washing rivets.

**Series 1 1-118**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0330-0109</td>
</tr>
<tr>
<td>2</td>
<td>0330-0113</td>
</tr>
<tr>
<td>4</td>
<td>0330-0114</td>
</tr>
<tr>
<td>6</td>
<td>0330-0115</td>
</tr>
<tr>
<td>8</td>
<td>0330-0116</td>
</tr>
</tbody>
</table>

**Series 3 3-118**

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0331-0035</td>
</tr>
</tbody>
</table>
# 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

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>0333-0261</td>
</tr>
<tr>
<td>0</td>
<td>0333-0262</td>
</tr>
<tr>
<td>1</td>
<td>0333-0263</td>
</tr>
<tr>
<td>2</td>
<td>0333-0264</td>
</tr>
<tr>
<td>3</td>
<td>0333-0265</td>
</tr>
<tr>
<td>4</td>
<td>0333-0266</td>
</tr>
<tr>
<td>5</td>
<td>0333-0267</td>
</tr>
<tr>
<td>6</td>
<td>0333-0268</td>
</tr>
</tbody>
</table>

### Series 3 GPP

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0333-0352</td>
</tr>
</tbody>
</table>

## Series 1 GPM
General purpose hand and machine cutting torches.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>0333-0221</td>
</tr>
<tr>
<td>0</td>
<td>0333-0222</td>
</tr>
<tr>
<td>1</td>
<td>0333-0223</td>
</tr>
<tr>
<td>2</td>
<td>0333-0224</td>
</tr>
<tr>
<td>3</td>
<td>0333-0225</td>
</tr>
<tr>
<td>4</td>
<td>0333-0226</td>
</tr>
</tbody>
</table>

## Series 1 HPP
Heavy preheat for scrap, bevel & other heavy preheat requirements.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0333-0286</td>
</tr>
</tbody>
</table>

## Series 1 MTHP
High speed machine cutting through 10’/252mm.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>0333-0352</td>
</tr>
<tr>
<td>0</td>
<td>0333-0353</td>
</tr>
<tr>
<td>1</td>
<td>0333-0354</td>
</tr>
<tr>
<td>2</td>
<td>0333-0355</td>
</tr>
<tr>
<td>3</td>
<td>0333-0356</td>
</tr>
<tr>
<td>4</td>
<td>0333-0357</td>
</tr>
<tr>
<td>5</td>
<td>0333-0358</td>
</tr>
</tbody>
</table>

## Series 1 MTHM
High speed machine cutting through 10’/252mm.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>0333-0339</td>
</tr>
<tr>
<td>0</td>
<td>0333-0340</td>
</tr>
<tr>
<td>1</td>
<td>0333-0341</td>
</tr>
<tr>
<td>2</td>
<td>0333-0342</td>
</tr>
</tbody>
</table>

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

### Series 1 1-303MP
General purpose hand and machine cutting.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0330-0188</td>
</tr>
<tr>
<td>1</td>
<td>0330-0189</td>
</tr>
<tr>
<td>2</td>
<td>0330-0193</td>
</tr>
<tr>
<td>3</td>
<td>0330-0194</td>
</tr>
<tr>
<td>4</td>
<td>0330-0195</td>
</tr>
</tbody>
</table>

### Series 1 1-318MP
Scarring, gouging, deseaming, rivet cutting and removing defective metal or welds.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0330-0335</td>
</tr>
</tbody>
</table>
Cutting Tips

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

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0333-0209</td>
</tr>
<tr>
<td>5</td>
<td>0333-0210</td>
</tr>
<tr>
<td>6</td>
<td>0333-0211</td>
</tr>
</tbody>
</table>

One Piece Propane & Natural Gas Cutting Tips

Series 1 1-200
General purpose hand and machine cutting.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0330-0144</td>
</tr>
<tr>
<td>2</td>
<td>0330-0145</td>
</tr>
</tbody>
</table>

Series 1 1-207
Using for “blowing” rivets. Popular with various railroads.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0330-0166</td>
</tr>
</tbody>
</table>

Series 1 1-200L
General purpose extra length tips.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0330-0537</td>
</tr>
</tbody>
</table>

Series 1 1-218
Deseaming, gouging, weld preparation, removing defective welds, and washing rivets.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0330-0178</td>
</tr>
<tr>
<td>6</td>
<td>0330-0179</td>
</tr>
</tbody>
</table>

Series 1 1-234
Cutting close to bulkheads, rivet cutting, etc.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0330-0341</td>
</tr>
</tbody>
</table>
One Piece Propane & Natural Gas Cutting Tips

**Series 1 MCN**
For applications requiring extra heavy preheat and wide kerf.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>0330-0543</td>
</tr>
</tbody>
</table>

**Series 1 HDNL**
For extra heavy duty cutting torches, emergency billet cutting, caster cut-off, steel mill scrap cutting, and foundry.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>0330-0554</td>
</tr>
<tr>
<td>10</td>
<td>0330-0547</td>
</tr>
<tr>
<td>12</td>
<td>0330-0548</td>
</tr>
</tbody>
</table>

**Series 1 GPN**
General purpose hand and machine cutting torches.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>0333-0300</td>
</tr>
<tr>
<td>0</td>
<td>0333-0301</td>
</tr>
<tr>
<td>1</td>
<td>0333-0302</td>
</tr>
<tr>
<td>2</td>
<td>0333-0303</td>
</tr>
<tr>
<td>3</td>
<td>0333-0304</td>
</tr>
<tr>
<td>4</td>
<td>0333-0305</td>
</tr>
<tr>
<td>5</td>
<td>0333-0306</td>
</tr>
<tr>
<td>6</td>
<td>0333-0307</td>
</tr>
<tr>
<td>7</td>
<td>0333-0308</td>
</tr>
<tr>
<td>8</td>
<td>0333-0309</td>
</tr>
</tbody>
</table>

**Series 3-GPN**
General purpose hand and machine cutting torches.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>033-0300</td>
</tr>
<tr>
<td>0</td>
<td>033-0301</td>
</tr>
<tr>
<td>1</td>
<td>033-0302</td>
</tr>
<tr>
<td>2</td>
<td>033-0303</td>
</tr>
<tr>
<td>3</td>
<td>033-0304</td>
</tr>
</tbody>
</table>

**Series 1 1-MTHN**
High speed machine cutting through 10’/252mm length tips.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>0333-0363</td>
</tr>
<tr>
<td>0</td>
<td>0333-0364</td>
</tr>
<tr>
<td>1</td>
<td>0333-0365</td>
</tr>
<tr>
<td>2</td>
<td>0333-0366</td>
</tr>
<tr>
<td>3</td>
<td>0333-0367</td>
</tr>
<tr>
<td>4</td>
<td>0333-0368</td>
</tr>
<tr>
<td>5</td>
<td>0333-0369</td>
</tr>
<tr>
<td>6</td>
<td>0333-0370</td>
</tr>
</tbody>
</table>

**Series 1 1-HPN**
Heavy preheat for scrap, bevel and other heavy preheat requirements.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0333-0323</td>
</tr>
<tr>
<td>2</td>
<td>0333-0324</td>
</tr>
<tr>
<td>3</td>
<td>0333-0325</td>
</tr>
<tr>
<td>4</td>
<td>0333-0326</td>
</tr>
<tr>
<td>5</td>
<td>0333-0327</td>
</tr>
<tr>
<td>6</td>
<td>0333-0328</td>
</tr>
<tr>
<td>7</td>
<td>0333-0330</td>
</tr>
<tr>
<td>10</td>
<td>0333-0331</td>
</tr>
<tr>
<td>12</td>
<td>0333-0332</td>
</tr>
</tbody>
</table>
Cutting / Heating Tips

One Piece Propane & Natural Gas Cutting Tips

**Series 1 BTN**
High performance bevel cutting for use with mild steel.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0333-0206</td>
</tr>
<tr>
<td>5</td>
<td>0333-0207</td>
</tr>
<tr>
<td>6</td>
<td>0333-0208</td>
</tr>
</tbody>
</table>

**Series 1 CSN**
A coarse splined scrap cutting tip for use with natural gas.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>0333-0411</td>
</tr>
</tbody>
</table>

Acetylene Heating Tips

**Series 1 MFTA**
For preheating before welding, descaling, paint burning, etc.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>0330-0527</td>
</tr>
<tr>
<td>8</td>
<td>0330-0528</td>
</tr>
<tr>
<td>10*</td>
<td>0330-0523</td>
</tr>
<tr>
<td>12*</td>
<td>0330-0524</td>
</tr>
</tbody>
</table>

*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.

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0330-0521</td>
</tr>
</tbody>
</table>

Required pressures: 15/30 PSI Fuel; 70/80 PSIG Oxy.
Note: Not for use with cutting attachments.

Don’t Forget your Tip Cleaners! Check out page 372
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Description</th>
<th>BTU's</th>
</tr>
</thead>
<tbody>
<tr>
<td>0384-1251</td>
<td>HS-101</td>
<td>Fire-Stick™ with R-LP regulator</td>
<td>350,000 ea.</td>
</tr>
</tbody>
</table>

Safety & Convenience Accessories

Flamebuster™ Flashback Arrestor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0656-0001</td>
<td>FB-1</td>
<td>Torch pair pak (oxy &amp; fuel)</td>
</tr>
<tr>
<td>0656-0004</td>
<td>FBR-1</td>
<td>Regulator pair pak (oxy &amp; fuel)</td>
</tr>
<tr>
<td>0657-0011</td>
<td>FB-F</td>
<td>Torch (fuel) flash arrestor</td>
</tr>
<tr>
<td>0657-0015</td>
<td>FB-FR</td>
<td>Regulator (fuel) flash arrestor</td>
</tr>
<tr>
<td>0657-0010</td>
<td>FB-O</td>
<td>Torch (oxy) flash arrestor</td>
</tr>
<tr>
<td>0657-0014</td>
<td>FB-OR</td>
<td>Regulator (oxy) flash arrestor</td>
</tr>
</tbody>
</table>

Flamebuster™ Plus Flashback Arrestor

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0656-0002</td>
<td>FBP-1</td>
<td>Torch pair pak</td>
</tr>
</tbody>
</table>

VanGuard™ Flashback Arrestor Replacement Cartridge

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0657-0036</td>
<td>Torch handle replacement cartridge (315FC, 100FC, J-100FC, &amp; CST800FC) (both gases)</td>
</tr>
</tbody>
</table>

Kwik Connect™ Torch/Hose Connections

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0656-0000</td>
<td>KC-1 Kwik Connect™ pair pak (oxy &amp; fuel)</td>
</tr>
</tbody>
</table>
Reverse Flow Check Valves for Torches & Regulators

Check Valve-Pair Pack

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0690-0012</td>
<td>CRO &amp; CRF regulator pair</td>
</tr>
<tr>
<td>0690-0035</td>
<td>CRF regulator (fuel)</td>
</tr>
<tr>
<td>0690-0034</td>
<td>CRO regulator (oxy)</td>
</tr>
<tr>
<td>0690-0011</td>
<td>CTO &amp; CTF torch pair pack</td>
</tr>
<tr>
<td>0690-0032</td>
<td>CTO torch (oxy)</td>
</tr>
<tr>
<td>0690-0033</td>
<td>CTF torch (fuel)</td>
</tr>
</tbody>
</table>

The Flashback Arrestor
Prevents the Reverse Flow of Gases and Flashback.

Nut and swivel assembly
Gas-tight O-ring seal
Brass housing
Check-valve assembly

Outlet Side
Gas Flow

Threads for connection to torch or regulator
Seating cup
Stainless-steel sintered filter acts as a flame block

The Check Valve
Prevents the reverse flow of gases

Guide
Seat
Retainer

Outlet Side
Gas Flow

Spring compresses under normal flow, moving disk assembly forward and allowing gas flow
Disk assembly seals tight against seat in event of reverse flow
Overview for Specifying Regulators

Sample Model Number

<table>
<thead>
<tr>
<th>Regulator Model Identification</th>
<th>Regulator Delivery Ranges (PSIG)</th>
<th>CGA Inlet Connection</th>
<th>Commercial Gases</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR</td>
<td>A 2-15</td>
<td>CGA 200</td>
<td>Acetylene (MC)</td>
</tr>
<tr>
<td></td>
<td>B 2-40</td>
<td>CGA 240</td>
<td>Ammonia</td>
</tr>
<tr>
<td></td>
<td>C 4-80</td>
<td>CGA 300</td>
<td>Acetylene (commercial)</td>
</tr>
<tr>
<td></td>
<td>D 5-125</td>
<td>CGA 320</td>
<td>Carbon dioxide</td>
</tr>
<tr>
<td></td>
<td>E 10-200</td>
<td>CGA 326</td>
<td>Nitrous oxide</td>
</tr>
<tr>
<td></td>
<td>F 50-750</td>
<td>CGA 346</td>
<td>Air (formerly 1340)</td>
</tr>
<tr>
<td></td>
<td>G 100-1500</td>
<td>CGA 347</td>
<td>Air</td>
</tr>
<tr>
<td></td>
<td>J 200-3000</td>
<td>CGA 350</td>
<td>Fuel gas, hydrogen</td>
</tr>
<tr>
<td></td>
<td>K 300-4500</td>
<td>CGA 500</td>
<td>Medical mixtures</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 510</td>
<td>Acetylene (POL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 520</td>
<td>Acetylene (B)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 540</td>
<td>Oxygen</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 555</td>
<td>Propane, butane</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 577</td>
<td>Oxygen</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 580</td>
<td>Nitrogen, argon, helium</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 590</td>
<td>Air (Industrial)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 660</td>
<td>Corrosive</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 667</td>
<td>Inert Gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 680</td>
<td>Nitrogen, argon</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 701</td>
<td>Oxygen</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 992</td>
<td>British oxygen, inert gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 996</td>
<td>Manifold oxy, inert gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 997</td>
<td>Manifold fuel gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 024</td>
<td>Station oxygen</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 025</td>
<td>Station fuel gas</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CGA 034</td>
<td>Station inert gas</td>
</tr>
</tbody>
</table>

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.

Regulators SHOULD NOT BE USED for a shut-off.

Note: When ordering be certain to specify delivery range, CGA inlet connections and regulator part number.
**Manifold Regulators**

**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.

![Image of Model No. SR700](image1)

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model No.</th>
<th>Delivery Range (PSIG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0780-0797</td>
<td>Air, Oxygen,</td>
<td>SR 700MD-996</td>
<td>5-125</td>
</tr>
<tr>
<td>0780-0798</td>
<td>Inert Gas</td>
<td>SR 700ME-996</td>
<td>10-200</td>
</tr>
</tbody>
</table>

**Two Stage**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model No.</th>
<th>Delivery Range (PSIG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0781-3961</td>
<td>Methane</td>
<td>VTS 452MD-997</td>
<td>5-125</td>
</tr>
<tr>
<td>0781-3962</td>
<td>Hydrogen</td>
<td>VTS 452ME-997</td>
<td>10-200</td>
</tr>
</tbody>
</table>

**Two Stage, High Flow**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model No.</th>
<th>Delivery Range (PSIG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0780-0997</td>
<td>Air, Oxygen</td>
<td>VTS 700MD-996</td>
<td>5-125</td>
</tr>
<tr>
<td>0780-0998</td>
<td>Inert Gas</td>
<td>VTS 700ME-996</td>
<td>10-200</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model No.</th>
<th>Delivery Range (PSIG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0781-1601</td>
<td>Inert gas</td>
<td>SR600-350-580</td>
<td>5-350 PSIG</td>
</tr>
<tr>
<td>0781-1605</td>
<td>High pressure air</td>
<td>SR600-350-347</td>
<td>5-350 PSIG</td>
</tr>
</tbody>
</table>

**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.
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 1/2" W x 7" H x 51/8" D (18.56 cm x 17.92 cm x 13.12 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.
- 3-1/4" diaphragm stainless steel.
- Delrin® cap bushing for smooth adjustments.
- External self reseating relief valve not designed to protect downstream apparatus.
- Venturi® "Select™" Journeyman® II Cutter with SR 450 & CSR 450 Regulators

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.
- 3-1/4" diaphragm - 2", 3-1/4" (Stainless steel).
- Delrin® cap bushing for smooth adjustments.
- External self reseating relief valve NOT designed to protect downstream apparatus.
- Venturi® "Select™" Journeyman® "Select™" Journeyman® II Cutter with VTS 461 series regulators.

Gauge Guards
**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.

**Delivery Range Key:**

- A: 2-15 PSIG
- B: 5-125 PSIG

**Outlet Connections:** Cylinder Type

- 9/16” - 18 (M), 5/8” - 18 (F) RH, 9/16” - 18 (F) LH
- WQ (Fits Linde WQ type acetylene cylinders)

---

**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.

---

**Gauge Guards**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1429-0058</td>
<td>Steel green-oxygen</td>
</tr>
<tr>
<td>1429-0059</td>
<td>Steel red-acetylene</td>
</tr>
</tbody>
</table>

**Delivery Range Key:**

- A: 2-15 PSIG
- B: 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)
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.

---

**Gauge Guards**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1429-0062</td>
<td>Steel green-oxygen</td>
</tr>
<tr>
<td>1429-0063</td>
<td>Steel red-acetylene</td>
</tr>
</tbody>
</table>

---

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.

---

**Part No.** | **Gas Service** | **Model No.** | **Delivery Range (PSIG)**
---|---|---|---
0781-3513 | Inert gas | VTS250D-5804 | 5-125
0781-3573 | CO₂ | VTS253B-3204 | 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

---

**Part No.** | **Gas Service** | **Model No.** | **Delivery Range (PSIG)**
---|---|---|---
0780-2520 | Oxygen | SR5-60-540 | 4-60
0780-2544 | CO₂ | SR5B-3206 | 2-40
0780-2537 | Inert Gas | SR5B-5806 | 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 2-40 PSIG (B Range)  
- 60 4-60 PSIG (C Range)

**Outlet Connections:** 9/16’ - 18 (M),  6 = 5/8’ - 18 (F)
Fuel Gas Equipment

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model No.</th>
<th>Delivery Range (PSIG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0781-2545</td>
<td>Oxygen, CO₂, Inert Gas</td>
<td>SR150CF-540</td>
<td>4-80</td>
</tr>
<tr>
<td>0781-2546</td>
<td>Acetylene</td>
<td>SR160AR-200</td>
<td>2-15</td>
</tr>
</tbody>
</table>

**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)

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model No.</th>
<th>Delivery Range (PSIG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0781-1405</td>
<td>Oxygen</td>
<td>SR 4F-540</td>
<td>50-750</td>
</tr>
<tr>
<td>0781-1425</td>
<td>Oxygen</td>
<td>SR 4G-540</td>
<td>100-1500</td>
</tr>
<tr>
<td>0781-1445</td>
<td>Oxygen</td>
<td>SR 4J-540</td>
<td>200-3000</td>
</tr>
<tr>
<td>0781-1408</td>
<td>Inert Gas</td>
<td>SR 4F-580</td>
<td>50-750</td>
</tr>
<tr>
<td>0781-1410</td>
<td>Inert Gas</td>
<td>SR 4F-680</td>
<td>50-750</td>
</tr>
<tr>
<td>0781-1428</td>
<td>Inert Gas</td>
<td>SR 4G-580</td>
<td>100-1500</td>
</tr>
<tr>
<td>0781-1430</td>
<td>Inert Gas</td>
<td>SR 4G-680</td>
<td>100-1500</td>
</tr>
<tr>
<td>0781-1448</td>
<td>Inert Gas</td>
<td>SR 4J-580</td>
<td>200-3000</td>
</tr>
<tr>
<td>0781-1450</td>
<td>Inert Gas</td>
<td>SR 4J-680</td>
<td>200-3000</td>
</tr>
<tr>
<td>0781-1453</td>
<td>Inert Gas</td>
<td>SR 4J-677</td>
<td>200-3000</td>
</tr>
<tr>
<td>0781-1473</td>
<td>Air</td>
<td>SR 4K-677</td>
<td>300-4500</td>
</tr>
<tr>
<td>0781-1463</td>
<td>Air</td>
<td>SR 4K-347</td>
<td>300-4500</td>
</tr>
<tr>
<td>0781-1404</td>
<td>Methane/ Hydrogen</td>
<td>SR 4F-350</td>
<td>50-750</td>
</tr>
<tr>
<td>0781-1401</td>
<td>Carbon Dioxide</td>
<td>SR 4F-320</td>
<td>50-750</td>
</tr>
</tbody>
</table>

**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

---

**Victor Equipment**

Vendor Code: VIC

www.middlesexgases.com
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).

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.

Performance
- Maximum inlet pressure: 3000 PSIG
- Outlet pressure preset: 25 PSIG
- HRF 2425
- HRF 2480
- Flow capacity: See chart

Materials
- Body: Brass
- Diaphragm: Fabric neoprene
- Housing cap: Brass
- Inlet filter: Sinter bronze
- Flowtube: Lexan
- Flowtube cover: Lexan

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.
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.

---

**SR 310, SR 311 & 312 High Flow CO₂ Flowmeter / Flowgauge**

- Designed for CO₂ application (non-siphoned tube cylinders).
- High flow CO₂ 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.**
- 0781-0355: SR 310 Adjustable
- 0781-0353 (Preset @ 80 PSIG) Flowmeter: SR 311
- 0781-0354: SR 312 Flow Gauge

**Flow Range**
- 10 - 150 PSIG
- 25 - 100 SCFH
- 0 - 100 SCFH

**CGA Inlet Connection**
- 320

**Outlet Connection:** 5/8" - 18 RH (F)

---

**NOTE:** High gas withdrawal rates may cause regulator freeze up and will require cylinder manifolding. 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.

### Units with Two Gas Calibration

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Flow Range</th>
<th>Inlet Fitting</th>
<th>Outlet Fitting</th>
<th>Flowtube</th>
<th>Inlet Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000-0256</td>
<td>FM145</td>
<td>4-18 SCFH argon 10-50 SCFH helium</td>
<td>5/8-18 RH M</td>
<td>5/8-18 RH F</td>
<td>1015-0063</td>
<td>25 PSIG</td>
</tr>
<tr>
<td>1000-0261</td>
<td>FM137</td>
<td>15-65 SCFH argon 40-200 SCFH helium</td>
<td>9/16-18 RH F</td>
<td>5/8-18 RH F</td>
<td>1015-0064</td>
<td>25 PSIG</td>
</tr>
<tr>
<td>1000-0262</td>
<td>FM147</td>
<td>15-70 SCFH argon 40-200 SCFH helium</td>
<td>5/8-18 RH M</td>
<td>5/8-18 RH F</td>
<td>1015-0064</td>
<td>25 PSIG</td>
</tr>
<tr>
<td>1000-0263</td>
<td>FM157</td>
<td>15-65 SCFH argon 40-200 SCFH helium</td>
<td>1/4 NPT M</td>
<td>5/8-18 RH F</td>
<td>1015-0064</td>
<td>25 PSIG</td>
</tr>
</tbody>
</table>

### Units with Three Gas Calibration

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Model No.</th>
<th>Flow Range</th>
<th>Inlet Fitting</th>
<th>Outlet Fitting</th>
<th>Flowtube</th>
<th>Inlet Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000-0258</td>
<td>FM370</td>
<td>5-40 SCFH CO₂ 5-50 SCFH argon 20-150 SCFH helium</td>
<td>9/16-18 RH F</td>
<td>5/8-18 RH F</td>
<td>1015-0057</td>
<td>25 PSIG</td>
</tr>
<tr>
<td>1000-0182</td>
<td>FM372</td>
<td>5-40 SCFH CO₂ 5-50 SCFH argon 20-150 SCFH helium</td>
<td>1/4 NPT M</td>
<td>5/8-18 RH F</td>
<td>1015-0057</td>
<td>25 PSIG</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Model No.</th>
<th>Delivery Range (PSIG)</th>
<th>Inlet &amp; Outlet Ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>0780-1209</td>
<td>Air, Oxygen, Inert Gas, CO₂, N₂₀</td>
<td>L 700D-750</td>
<td>5-125</td>
<td>3/4&quot; - NPT(F)</td>
</tr>
<tr>
<td>0780-1201</td>
<td>Acetylene</td>
<td>L 710A-750</td>
<td>2-15</td>
<td>3/4&quot; - NPT(F)</td>
</tr>
</tbody>
</table>
Fuel Gas Equipment

**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.

---

**Regulators**

**Part No.** | **Gas Service** | **Model No.** | **Delivery Range (PSIG)**
---|---|---|---
0781-2493 | Oxygen | S350D-024 | 5-125
0781-2458 | Rear Inlet | S350BR-024 | 2-40
0781-2459 | S350CR-024 | 4-80
0781-2509 | CS50DR-024* | 5-125
0781-2500 | Acetylene | S360A-025 | 2-15
0781-2505 | Hydrogen | S361C-025 | 4-80
0781-2506 | L.P. Gas | S361D-025 | 5-125
0781-2472 | Acetylene | S360AR-025 | 2-15
0781-2486 | L.P. Gas | S361DR-025 | 5-125

---

**Part No.** | **Gas Service** | **Model No.** | **Delivery Range (PSIG)**
---|---|---|---
0781-1254 | Oxygen | S250C-024 | 4-80
0781-1255 | L.P. Gas | S250D-024 (w/ flowmeter) | 5-125
0781-1256 | Acetylene | S260A-025 | 2-15

---

**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 61/2” 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.

---

**Part No.** | **Gas Service** | **Model No.** | **Delivery Range (PSIG)** | **Outlet Gauge (PSIG)** | **Inlet & Outlet Ports**
---|---|---|---|---|---
0781-2455 | Air, Oxygen Inert Gas CO₂, N₂₀ | L350D-250 | 5-125 | 0-200 | 1/4” NPT (F)

**Delivery Range Key:**
A 2-15 PSIG  B 2-40 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 CO₂ applications.

**Note:** Not designed for cylinder use

---

**Part No.** | **Gas Service** | **Model No.** | **Delivery Range (PSIG)**
---|---|---|---
0781-1254 | Oxygen | S250C-024 | 4-80
0781-1255 | L.P. Gas | S250D-024 (w/ flowmeter) | 5-125
0781-1256 | Acetylene | S260A-025 | 2-15

---

**Connections Key:**
024-CGA Inlet Connection: 7/8”-14 RH(F) Outlet Connection: “B” 916”-18 RH(M) 025-CGA Inlet Connection: 7/8”-14 LH(F) Outlet Connection: “B” 916”-18 LH(M)

**Delivery Range Key:**
A 2-15 PSIG  B 2-40 PSIG  C 4-80 PSIG  D 5-125 PSIG

---

www.middlesexgases.com
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

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
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

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"

250 Series - Medium Duty

350 Series - Heavy Duty
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.

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

HRF 1400 Medalist™ Flowmeter
Single Stage
- Single stage piston design.
- Argon, Argon/CO₂ mix & CO₂ 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 CO₂ 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

AF & CF 150 Medalist™ Flowgauge Regulators
Single Stage
- Forged brass body & housing cap.
- Stem type seat mechanism.
- Argon, Argon/CO₂ Mix & CO₂ models.
- Maximum inlet pressure: 3000 PSIG/204 BAR.
- Up to 50 CFH/24 LPM for Argon and up to 38 CFH/18 LPM for CO₂.
- 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.
Extreme® Standard Torch Kits

Listed Components
Color Coded O-Rings for Gas Identification
Quick Disconnect Handle and Tip

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-5 tip. • A-14 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.
- 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
### Extreme® Standard Torch Tips

- Use with large tank only. Use with G-4 Handle (0386-0308).

### Listed Components
- Self Igniting Trigger
- Color Coded O-Rings for Gas Identification

#### Patented Swirl Combustion Technology

#### Air Acetylene Tips

<table>
<thead>
<tr>
<th>Tip No.</th>
<th>Tip Size</th>
<th>Gas Flow</th>
<th>Copper Tubing Size Capacity</th>
<th>Replacement Orifice Model</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In.</td>
<td>mm.</td>
<td>@14 PSI FT3/hr.</td>
<td>(0.9 Bar) M3/hr.</td>
</tr>
<tr>
<td>A-2</td>
<td>1/8</td>
<td>4.8</td>
<td>2.0</td>
<td>.17</td>
</tr>
<tr>
<td>A-3</td>
<td>3/16</td>
<td>6.4</td>
<td>3.6</td>
<td>.31</td>
</tr>
<tr>
<td>A-5</td>
<td>1/4</td>
<td>7.9</td>
<td>5.7</td>
<td>.48</td>
</tr>
<tr>
<td>A-8</td>
<td>5/16</td>
<td>9.5</td>
<td>8.3</td>
<td>.71</td>
</tr>
<tr>
<td>A-11</td>
<td>7/16</td>
<td>11.1</td>
<td>11.0</td>
<td>.94</td>
</tr>
<tr>
<td>A-14</td>
<td>1/2</td>
<td>12.7</td>
<td>14.5</td>
<td>1.23</td>
</tr>
<tr>
<td>A-32*</td>
<td>3/4</td>
<td>19.0</td>
<td>33.2</td>
<td>2.82</td>
</tr>
<tr>
<td>MSA-8</td>
<td>3/8</td>
<td>9.5</td>
<td>5.8</td>
<td>.50</td>
</tr>
</tbody>
</table>
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).
• “MC” tank connections.
• Instruction manual.

Part No. 0386-0834
PL-8ADLX-MC 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.

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.

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Soft Solder Size</th>
<th>Operating Pressure Range</th>
<th>Acetylene Consumption Range</th>
<th>Replacement Orifice No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0386-1153</td>
<td>1/16-1/8 in.</td>
<td>2-3 PSI</td>
<td>0.35-1.0 SCFH</td>
<td>OR-SI</td>
</tr>
<tr>
<td>0386-1154</td>
<td>1/8-3/8 in.</td>
<td>3-9 PSI</td>
<td>0.35-1.0 SCFH</td>
<td>OR-A2</td>
</tr>
<tr>
<td>0386-0112</td>
<td>3/8-1/2 in.</td>
<td>9-13 PSI</td>
<td>0.35-1.0 SCFH</td>
<td>OR-A11</td>
</tr>
<tr>
<td>0386-0113</td>
<td>1/2-1 in.</td>
<td>13-25 PSI</td>
<td>0.35-1.0 SCFH</td>
<td>OR-A5</td>
</tr>
<tr>
<td>0386-0114</td>
<td>3/4-1-1/2 in.</td>
<td>19-40 PSI</td>
<td>0.35-1.0 SCFH</td>
<td>OR-A11</td>
</tr>
<tr>
<td>0386-0115</td>
<td>1-4 in.</td>
<td>25-100 PSI</td>
<td>0.35-1.0 SCFH</td>
<td>OR-A14</td>
</tr>
</tbody>
</table>

Swirl Air Acetylene Accessories

WA-400
Part No. 0386-0410

PLF-A5 Proline
Part No. 0386-0672

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.

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-R pressure regulator CGA 600.**
**ST-3 tip.**
**Easy to change orifice.**
**Swivels 360°.**
**Instruction manual.**
**Part No. 0386-0403**

**STK-9 Kit**

**STK-1 Kit**

**TX-500 Kit**

**TX-503 Kit**

**TX-504 Kit**

**Listed Components**

- 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.
• Swivel tip-concentrates heat/reduces heat time.
• Diaphragm regulator.

**Part No. 0386-1298**

**TX-0 Kit**

**Self Lighting Hand Torch**

• Includes TX-504 torch
• Swivel tip-concentrates heat/reduces heat time
• Diaphragm regulator

**Part No. 0386-1296**

**Torch Tips**

<table>
<thead>
<tr>
<th>Tip No.</th>
<th>Tip Size</th>
<th>Gas Flow</th>
<th>Copper Tubing Size Capacity Propane Gas</th>
<th>Copper Tubing Size Capacity MAPP® Gas</th>
<th>Replacement Orifice</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>@24 PSI Lbs/hr</td>
<td>@36 PSI Lbs/hr</td>
<td>Soft Solder</td>
<td>Silver Solder</td>
</tr>
<tr>
<td>T-2</td>
<td>5/16</td>
<td>8.0</td>
<td>.14</td>
<td>.17</td>
<td>1/6 - 1/4</td>
</tr>
<tr>
<td>T-3</td>
<td>7/16</td>
<td>11.1</td>
<td>.20</td>
<td>.25</td>
<td>1/4 - 1</td>
</tr>
<tr>
<td>T-4</td>
<td>1/2</td>
<td>12.7</td>
<td>.39</td>
<td>.48</td>
<td>1/4 - 1/2</td>
</tr>
<tr>
<td>T-5</td>
<td>3/4</td>
<td>19.0</td>
<td>1.10</td>
<td>1.3</td>
<td>1-1/2 - 2</td>
</tr>
<tr>
<td>T-6</td>
<td>1</td>
<td>25.4</td>
<td>2.10</td>
<td>2.5</td>
<td>1-1/2 - 4</td>
</tr>
</tbody>
</table>

*TurboTorch Tips are for use with H-4 Handle Part No. 0386-0300*
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. Description
WB-101 Heavy Duty
WB-102 Standard Duty
WB-100 Professional

Replacement Parts
<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB-100-25</td>
<td>10’ Hose Assembly for WB-101 and WB-102 only</td>
</tr>
<tr>
<td>WB-100-13</td>
<td>Handle Assembly - for WB-101 only</td>
</tr>
<tr>
<td>WB-100-19</td>
<td>Handle Assembly - for WB-102 only</td>
</tr>
</tbody>
</table>

WEED Burning
ICE Melting
PAINT Removal
ROOFING Repair

HUNDREDS of USES!

ASPHALT Repair
SNOW Removal
TAR Sealing
PREHEATING Metal

www.middlesexgases.com
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.

- 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.

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.

- 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.

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.

- 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.

www.middlesexgases.com
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>CGA Inlet/ Gas Service</th>
<th>Flow Capacity SCFH</th>
<th>Inlet Pressure PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF-3-P</td>
<td>580 Argon</td>
<td>0-70</td>
<td>0-3000</td>
</tr>
<tr>
<td>RF-4-P</td>
<td>320 Carbon Dioxide</td>
<td>0-70</td>
<td>0-3000</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>CGA Inlet/ Gas Service</th>
<th>Flow Capacity SCFH</th>
<th>Inlet Pressure PSIG</th>
<th>Outlet Connections (both provided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFS-3-P</td>
<td>580 Argon</td>
<td>0-50</td>
<td>0-3000</td>
<td>9/16”-18 RHM and 5/8”-18 RHF</td>
</tr>
<tr>
<td>RFS-4-P</td>
<td>320 Carbon Dioxide</td>
<td>0-50</td>
<td>0-3000</td>
<td>9/16”-18 RHM and 5/8”-18 RHF</td>
</tr>
<tr>
<td>RFS-7-P</td>
<td>580 Nitrogen</td>
<td>0-50</td>
<td>0-3000</td>
<td>9/16”-18 RHM and 5/8”-18 RHF</td>
</tr>
<tr>
<td>RFD-3-P</td>
<td>580 Argon</td>
<td>0-50</td>
<td>0-3000</td>
<td>9/16”-18 RHM and 5/8”-18 RHF</td>
</tr>
<tr>
<td>RFD-4-P</td>
<td>320 Carbon Dioxide</td>
<td>0-50</td>
<td>0-3000</td>
<td>9/16”-18 RHM and 5/8”-18 RHF</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Flow Capacity SCFH</th>
<th>Inlet Connection</th>
<th>Calibrated Inlet Pressure PSIG</th>
<th>Outlet Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>RWS-2-7</td>
<td>Nitrogen</td>
<td>0-100</td>
<td>1/8” NPT F</td>
<td>50</td>
<td>9/16”-18 RHM and 5/8”-18 RHF</td>
</tr>
<tr>
<td>RWS-2-13</td>
<td>Argon/CO₂</td>
<td>0-70</td>
<td>1/8” NPT F</td>
<td>50</td>
<td>9/16”-18 RHM and 5/8”-18 RHF</td>
</tr>
</tbody>
</table>

Part No. RF-3-P

Part No. RFS-3-P

Part No. RWS-2-13
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”.

- 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 CO₂.
- 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>CGA Inlet / Gas Service</th>
<th>Capacity SCFH</th>
<th>Inlet Pressure PSIG</th>
<th>Hose Barb Outfit</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP22320</td>
<td>320 Carbon Dioxide</td>
<td>22</td>
<td>0-3000</td>
<td>Works with 3/16” and 1/4” ID hose</td>
</tr>
<tr>
<td>RP30580</td>
<td>580 Argon</td>
<td>30</td>
<td>0-3000</td>
<td>Works with 3/16” and 1/4” ID hose</td>
</tr>
<tr>
<td>RP30580G*</td>
<td>580 Argon</td>
<td>30</td>
<td>0-3000</td>
<td>Works with 3/16” and 1/4” ID hose</td>
</tr>
</tbody>
</table>

*RP30580G includes gauge

Preset Pressure Regulator
RP Series models are designed to supply a preset pressure for portable CO₂ 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>CGA Inlet</th>
<th>Max. Inlet Pressure PSIG</th>
<th>Preset Output Pressure PSIG</th>
<th>Side Outlet Port</th>
</tr>
</thead>
<tbody>
<tr>
<td>RP320030</td>
<td>320 Carbon Dioxide</td>
<td>3000</td>
<td>30</td>
<td>1/4” NPT F</td>
</tr>
<tr>
<td>RP320050</td>
<td>320 Carbon Dioxide</td>
<td>3000</td>
<td>50</td>
<td>1/4” NPT F</td>
</tr>
<tr>
<td>RP320075</td>
<td>320 Carbon Dioxide</td>
<td>3000</td>
<td>75</td>
<td>1/4” NPT F</td>
</tr>
<tr>
<td>RP320100</td>
<td>320 Carbon Dioxide</td>
<td>3000</td>
<td>100</td>
<td>1/4” NPT F</td>
</tr>
<tr>
<td>RP320125</td>
<td>320 Carbon Dioxide</td>
<td>3000</td>
<td>125</td>
<td>1/4” NPT F</td>
</tr>
<tr>
<td>RP320150</td>
<td>320 Carbon Dioxide</td>
<td>3000</td>
<td>150</td>
<td>1/4” NPT F</td>
</tr>
<tr>
<td>RP320175</td>
<td>320 Carbon Dioxide</td>
<td>3000</td>
<td>175</td>
<td>1/4” NPT F</td>
</tr>
<tr>
<td>RP320200</td>
<td>320 Carbon Dioxide</td>
<td>3000</td>
<td>200</td>
<td>1/4” NPT F</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Delivery Pressure Range PSIG</th>
<th>Max. Rated Flow SCFH</th>
<th>Inlet Pressure PSIG</th>
<th>Outlet Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>REB-1-1</td>
<td>510 Acetylene</td>
<td>0-15</td>
<td>230</td>
<td>0-400</td>
<td>9/16”-18 LHM</td>
</tr>
<tr>
<td>REB-1A-1</td>
<td>300 Acetylene</td>
<td>0-15</td>
<td>230</td>
<td>0-400</td>
<td>9/16”-18 LHM</td>
</tr>
<tr>
<td>REB-4-3</td>
<td>320 Carbon Dioxide</td>
<td>0-100</td>
<td>800</td>
<td>0-3000</td>
<td>9/16”-18 RHM</td>
</tr>
<tr>
<td>REB-9-3</td>
<td>540 Oxygen</td>
<td>0-100</td>
<td>1000</td>
<td>0-3000</td>
<td>9/16”-18 RHM</td>
</tr>
</tbody>
</table>

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.

- 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Max Inlet Pressure PSIG</th>
<th>Max Flow Pressure SCFH</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST347</td>
<td>347 Compressed Air</td>
<td>5500</td>
<td>6000</td>
<td>1/4” NPT M</td>
</tr>
<tr>
<td>ST577</td>
<td>577 Oxygen</td>
<td>4000</td>
<td>5700</td>
<td>1/4” NPT M</td>
</tr>
<tr>
<td>ST680</td>
<td>680 Inert Gases</td>
<td>5500</td>
<td>6,120 (Nitrogen)</td>
<td>1/4” NPT M</td>
</tr>
<tr>
<td>ST695</td>
<td>695 Flammable</td>
<td>5500</td>
<td>N/A</td>
<td>1/4” NPT M</td>
</tr>
<tr>
<td>ST701</td>
<td>701 Oxygen</td>
<td>5500</td>
<td>5700</td>
<td>1/4” NPT M</td>
</tr>
</tbody>
</table>
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.

### RS Series Models

<table>
<thead>
<tr>
<th>Part No.</th>
<th>CGA Inlet / Gas Service</th>
<th>Delivery Pressure Range PSIG</th>
<th>Maximum Flow SCFH</th>
<th>Inlet Pressure PSIG</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-1-1**</td>
<td>510 Acetylene</td>
<td>0-15</td>
<td>420</td>
<td>0-400</td>
<td>9/16&quot;-18 LH M</td>
</tr>
<tr>
<td>RS-1A-1**</td>
<td>300 Acetylene</td>
<td>0-15</td>
<td>420</td>
<td>0-400</td>
<td>9/16&quot;-18 LH M</td>
</tr>
<tr>
<td>RS-2-3*</td>
<td>346 Air</td>
<td>0-80</td>
<td>3000</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-2-4*</td>
<td>346 Air</td>
<td>0-180</td>
<td>6500</td>
<td>0-3000</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RS-2-4H</td>
<td>346 Air Hand-Tight</td>
<td>0-180</td>
<td>6500</td>
<td>0-3000</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RS-2-5</td>
<td>346 Air</td>
<td>0-450</td>
<td>10,000</td>
<td>0-3000</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RS-4-3*</td>
<td>320 Carbon Dioxide</td>
<td>0-80</td>
<td>2200</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-4-4*</td>
<td>320 Carbon Dioxide</td>
<td>0-180</td>
<td>5000</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-6-3*</td>
<td>350 Hydrogen, Methane</td>
<td>0-80</td>
<td>12,800</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-6-4*</td>
<td>350 Hydrogen, Methane</td>
<td>0-180</td>
<td>28,400</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-7-3*</td>
<td>580 Inert Gases</td>
<td>0-80</td>
<td>3430</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-7-4*</td>
<td>580 Inert Gases</td>
<td>0-180</td>
<td>7570</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-7-5</td>
<td>580 Inert Gases</td>
<td>0-450</td>
<td>8500</td>
<td>0-3000</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RS-8-3*</td>
<td>326 Nitrous Oxide</td>
<td>0-80</td>
<td>2200</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-8-4*</td>
<td>326 Nitrous Oxide</td>
<td>0-180</td>
<td>5000</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-9-3*</td>
<td>540 Oxygen</td>
<td>0-80</td>
<td>3230</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-9-4*</td>
<td>540 Oxygen</td>
<td>0-180</td>
<td>7100</td>
<td>0-3000</td>
<td>9/16&quot;-18 RH M</td>
</tr>
<tr>
<td>RS-9-5</td>
<td>540 Oxygen</td>
<td>0-450</td>
<td>7900</td>
<td>0-3000</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RS-10-2**</td>
<td>510 Liquified Fuel Gases</td>
<td>0-45</td>
<td>1380</td>
<td>0-3000</td>
<td>9/16&quot;-18 LH M</td>
</tr>
</tbody>
</table>

* UL Listed

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).

### REB-7-5AC

<table>
<thead>
<tr>
<th>Part No.</th>
<th>CGA Inlet/ Gas Service</th>
<th>Delivery Pressure Range PSIG</th>
<th>Maximum Flow SCFH</th>
<th>Inlet Pressure PSIG</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>REB-7-SAC</td>
<td>580 Nitrogen</td>
<td>0-450</td>
<td>1500</td>
<td>0-3000</td>
<td>1/4&quot; SAE flare</td>
</tr>
</tbody>
</table>
**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 Stage™ 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>CGA Inlet/Gas Service</th>
<th>Delivery Pressure Range PSIG</th>
<th>Maximum Flow SCFH</th>
<th>Outlet Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-9-15</td>
<td>Diaphragm</td>
<td>540 Oxygen</td>
<td>0-1500</td>
<td>2500</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RS-9-20</td>
<td>Diaphragm</td>
<td>540 Oxygen</td>
<td>0-2000</td>
<td>2800</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RS-11-15</td>
<td>Piston</td>
<td>580 Inert</td>
<td>0-1500</td>
<td>2550</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RS-11-20</td>
<td>Piston</td>
<td>580 Inert</td>
<td>0-2000</td>
<td>2850</td>
<td>1/4&quot; NPT F</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Style</th>
<th>CGA Inlet/Gas Service</th>
<th>Delivery Pressure Range PSIG</th>
<th>Maximum Flow SCFH</th>
<th>Outlet Connections</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHP-2-4*</td>
<td>Diaphragm</td>
<td>347 Compressed Air</td>
<td>0-180</td>
<td>3200</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RHP-2-5*</td>
<td>Diaphragm</td>
<td>347 Compressed Air</td>
<td>0-450</td>
<td>3700</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RHP-2-30</td>
<td>Piston</td>
<td>347 Compressed Air</td>
<td>0-3000</td>
<td>2964</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RHP-2-45</td>
<td>Piston</td>
<td>347 Compressed Air</td>
<td>0-4500</td>
<td>3735</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RHP-9-15</td>
<td>Piston</td>
<td>577 Oxygen</td>
<td>0-1500</td>
<td>2500</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RHP-11-4*</td>
<td>Diaphragm</td>
<td>680 Inert</td>
<td>0-180</td>
<td>3280</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RHP-11-15</td>
<td>Piston</td>
<td>680 Inert</td>
<td>0-1500</td>
<td>2550</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RHP-11-20</td>
<td>Piston</td>
<td>680 Inert</td>
<td>0-2000</td>
<td>2850</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RHP-11-30</td>
<td>Piston</td>
<td>680 Inert</td>
<td>0-3000</td>
<td>3014</td>
<td>1/4&quot; NPT F</td>
</tr>
<tr>
<td>RHP-11-45</td>
<td>Piston</td>
<td>680 Inert</td>
<td>0-4500</td>
<td>3798</td>
<td>1/4&quot; NPT F</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Service</th>
<th>Inlet Connection</th>
<th>Inlet Pressure PSIG</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPB-3</td>
<td>Argon (CO₂)</td>
<td>5/8&quot;-18 RH M</td>
<td>0-200</td>
<td>9/16&quot;-18 RH M &amp; 5/8&quot;-18 RH F</td>
</tr>
</tbody>
</table>
**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.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>RM-1-1</td>
<td>Acetylene</td>
<td>15</td>
<td>10</td>
<td>850</td>
<td>1-15</td>
<td>400</td>
<td>1 - 11-1/2&quot; NPS LH M</td>
<td>1 - 11-1/2&quot; NPS LH F</td>
<td>RWC-3-59</td>
</tr>
<tr>
<td>RM-2-4</td>
<td>Compressed Air</td>
<td>50</td>
<td>45</td>
<td>960</td>
<td>20-160</td>
<td>3000</td>
<td>1 - 11-1/2&quot; NPS RH M</td>
<td>1 - 11-1/2&quot; NPS RH F</td>
<td>RWC-3-49</td>
</tr>
<tr>
<td>RM-4-4</td>
<td>Carbon Dioxide</td>
<td>50</td>
<td>45</td>
<td>960</td>
<td>20-160</td>
<td>3000</td>
<td>1 - 11-1/2&quot; NPS RH M</td>
<td>1 - 11-1/2&quot; NPS LH F</td>
<td>RWC-3-49</td>
</tr>
<tr>
<td>RM-6-4</td>
<td>Hydrogen</td>
<td>50</td>
<td>45</td>
<td>960</td>
<td>20-160</td>
<td>3000</td>
<td>1 - 11-1/2&quot; NPS LH M</td>
<td>1 - 11-1/2&quot; NPS RH F</td>
<td>RWC-3-49</td>
</tr>
<tr>
<td>RM-7-4</td>
<td>Nitrogen, Helium and Argon</td>
<td>50</td>
<td>45</td>
<td>960</td>
<td>20-160</td>
<td>3000</td>
<td>1 - 11-1/2&quot; NPS LH M</td>
<td>1 - 11-1/2&quot; NPS RH F</td>
<td>RWC-3-49</td>
</tr>
<tr>
<td>RM-8-4</td>
<td>Nitrous Oxide</td>
<td>50</td>
<td>45</td>
<td>960</td>
<td>20-160</td>
<td>3000</td>
<td>1 - 11-1/2&quot; NPS LH M</td>
<td>1 - 11-1/2&quot; NPS RH F</td>
<td>RWC-3-49</td>
</tr>
<tr>
<td>RDM-9-3</td>
<td>Oxygen</td>
<td>50</td>
<td>45</td>
<td>310</td>
<td>950</td>
<td>20-100</td>
<td>1 - 11-1/2&quot; NPS RH M</td>
<td>1 - 11-1/2&quot; NPS RH F</td>
<td>RWD-2-19 1st Stage RWD-2-36 2nd Stage</td>
</tr>
<tr>
<td>RDM-9-4</td>
<td>Oxygen</td>
<td>50</td>
<td>45</td>
<td>310</td>
<td>950</td>
<td>20-160</td>
<td>1 - 11-1/2&quot; NPS RH M</td>
<td>1 - 11-1/2&quot; NPS RH F</td>
<td>RWD-2-19 1st Stage RWD-2-36 2nd Stage</td>
</tr>
<tr>
<td>RM-10-2</td>
<td>LPG Fuel Gas</td>
<td>45</td>
<td>40</td>
<td>480</td>
<td>940</td>
<td>0-45</td>
<td>1 - 11-1/2&quot; NPS LH M</td>
<td>1 - 11-1/2&quot; NPS LH F</td>
<td>RWC-3-59</td>
</tr>
<tr>
<td>RS-300-MAN</td>
<td>Nitrogen</td>
<td>170</td>
<td>160-150</td>
<td>800-1422</td>
<td>40-300</td>
<td>3000</td>
<td>1 - 11-1/2&quot; NPS RH M</td>
<td>1 - 11-1/2&quot; NPS RH F</td>
<td>RK-1022 (repair kit)</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Inlet/Outlet Connection (Female)</th>
<th>Delivery Pressure PSIG</th>
<th>Air at 50 PSIG 100 SCFH</th>
<th>Air at 100 PSIG 250 SCFH Inlet Delivery SCFH</th>
<th>Gauge Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMR-2-2</td>
<td>1/2’ NPT</td>
<td>1-50</td>
<td>3,000</td>
<td>3,000</td>
<td>0-100</td>
</tr>
<tr>
<td>WMR-2-3</td>
<td>3/4’ NPT</td>
<td>50-125</td>
<td>11,000</td>
<td>21,000</td>
<td>0-200</td>
</tr>
<tr>
<td>WMR-2-4</td>
<td>1/2’ NPT</td>
<td>50-125</td>
<td>5,000</td>
<td>10,000</td>
<td>0-200</td>
</tr>
<tr>
<td>WMR-2-5</td>
<td>1/2’ NPT</td>
<td>100-200</td>
<td>3,500</td>
<td>12,500</td>
<td>0-400</td>
</tr>
<tr>
<td>WMR-2-6</td>
<td>3/4’ NPT</td>
<td>100-200</td>
<td>6,000</td>
<td>20,000</td>
<td>0-400</td>
</tr>
<tr>
<td>WMR-2-8</td>
<td>1’ NPT</td>
<td>100-200</td>
<td>6,000</td>
<td>20,000</td>
<td>0-400</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Delivery Lock-Up</th>
<th>Flowing Pressure SCFH</th>
<th>Flow Connection SCFH</th>
<th>Inlet</th>
<th>Outlet Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSR-1-1</td>
<td>Oxygen</td>
<td>125 PSIG</td>
<td>120</td>
<td>760</td>
<td>7/8'-14 RH F, CGA-024</td>
<td>9/16'-18 RH M, CGA-022</td>
</tr>
<tr>
<td>WSR-1-2</td>
<td>Acetylene</td>
<td>15 PSIG</td>
<td>10</td>
<td>420</td>
<td>7/8'-14 LH F, CGA-025</td>
<td>9/16'-18 LH M, CGA-023</td>
</tr>
</tbody>
</table>

www.middlesexgases.com
## 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.

### 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.

### 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.

### Replacement Valve and Tip Attachments

#### 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

#### Part No. | Description
--- | ---
R PB-5-1F | Mylar balloon tip attachment
R PB-5-1L | Latex balloon tip attachment
R PB-5-1N | Needle tip for valved, plugged latex balloons
R PB-5-1X | Helium/air mixer attachment (60% helium/40% air)
R PB-5-1Z | Adjustable helium/air mixer

*Accepts all tips listed above
### Hose Nuts
Pressures To 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>0009</td>
<td>Oxygen RH</td>
<td>A-Size CGA-020 Brass</td>
</tr>
<tr>
<td>0010</td>
<td>Acetylene/F. Gases LH</td>
<td>A-Size CGA-021 Brass</td>
</tr>
<tr>
<td>0007</td>
<td>Oxygen RH</td>
<td>B-SIZE CGA-022 Brass</td>
</tr>
<tr>
<td>0008</td>
<td>Acetylene/F. Gases LH</td>
<td>B-SIZE CGA-023 St. Steel</td>
</tr>
</tbody>
</table>

### Barbed Hose Nipples
Pressures To 200 PSIG (1400 kPa)

- Part No. 0018
- Part No. 0019

### Spiral and NPT Hose Nipples
Pressures To 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>0011</td>
<td>1/8&quot; NPT to A-Size RH Brass</td>
<td></td>
</tr>
<tr>
<td>0012</td>
<td>3/16&quot; ID Hose to A-Size RH Brass</td>
<td></td>
</tr>
<tr>
<td>0013</td>
<td>3/16&quot; ID Hose to B-Size LH Brass</td>
<td></td>
</tr>
<tr>
<td>0014</td>
<td>1/4&quot; ID Hose to B-Size LH Brass</td>
<td></td>
</tr>
<tr>
<td>0015</td>
<td>1/4&quot; ID Hose to A-Size LH Brass</td>
<td></td>
</tr>
<tr>
<td>0016</td>
<td>3/8&quot; ID Hose to A-Size LH Brass</td>
<td></td>
</tr>
</tbody>
</table>

### Regulator Outlet Bushings
(Adaptors)
Pressures To 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>0132</td>
<td>1/8&quot; NPT to A-Size RH Brass</td>
<td></td>
</tr>
<tr>
<td>0133</td>
<td>1/8&quot; NPT to A-Size LH Brass</td>
<td></td>
</tr>
<tr>
<td>0134</td>
<td>1/4&quot; NPT to A-Size RH Brass</td>
<td></td>
</tr>
<tr>
<td>0135</td>
<td>1/4&quot; NPT to A-Size LH Brass</td>
<td></td>
</tr>
<tr>
<td>0136</td>
<td>1/8&quot; NPT to B-Size RH Brass</td>
<td></td>
</tr>
<tr>
<td>0137</td>
<td>1/8&quot; NPT to B-Size LH Brass</td>
<td></td>
</tr>
<tr>
<td>0032</td>
<td>1/4&quot; NPT to B-Size RH Brass</td>
<td></td>
</tr>
<tr>
<td>SS-32</td>
<td>1/4&quot; NPT to B-Size RH St. Steel</td>
<td></td>
</tr>
<tr>
<td>0033</td>
<td>1/4&quot; NPT to B-Size LH Brass</td>
<td></td>
</tr>
<tr>
<td>0142</td>
<td>3/8&quot; NPT to B-Size RH Brass</td>
<td></td>
</tr>
<tr>
<td>SS-142</td>
<td>3/8&quot; NPT to B-Size RH St. Steel</td>
<td></td>
</tr>
<tr>
<td>0143</td>
<td>3/8&quot; NPT to B-Size LH Brass</td>
<td></td>
</tr>
</tbody>
</table>

Male NPT to Oxygen RH — Male NPT to acetylene/F. gases LH
Hose Couplers, Brass
Pressures To 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>0107</td>
<td>90° Male NPT to Female B-Size, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0108</td>
<td>90° Male NPT to Female B-Size, LH</td>
<td>Acet/F. Gases</td>
</tr>
<tr>
<td>0127</td>
<td>45° 1/4&quot; Male NPT to Male B-Size, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0128</td>
<td>45° 1/4&quot; Male NPT to Male B-Size, LH</td>
<td>Acet/F. Gases</td>
</tr>
<tr>
<td>0253</td>
<td>90° 1/4&quot; Male NPT to Male B-Size, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0254</td>
<td>90° 1/4&quot; Male NPT to Male B-Size, LH</td>
<td>Acet/F. Gases</td>
</tr>
<tr>
<td>0123</td>
<td>1/4&quot; Male NPT to Female Swivel B-Size, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0124</td>
<td>1/4&quot; Male NPT to Female Swivel B-Size, LH</td>
<td>Acet/F. Gases</td>
</tr>
<tr>
<td>0125</td>
<td>1/4&quot; Male NPT to Female Swivel A-Size, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0126</td>
<td>1/4&quot; Male NPT to Female Swivel A-Size, LH</td>
<td>Acet/F. Gases</td>
</tr>
<tr>
<td>0153</td>
<td>Female Swivel B-Size to 1/4&quot; Male NPT, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0154</td>
<td>Female Swivel B-Size to 1/4&quot; Male NPT, LH</td>
<td>Acet/F. Gases</td>
</tr>
<tr>
<td>0234</td>
<td>1/4&quot; Female NPT to Female Swivel B-Size, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0235</td>
<td>1/4&quot; Female NPT to Female Swivel B-Size, LH</td>
<td>Acet/F. Gases</td>
</tr>
<tr>
<td>0244</td>
<td>1/4&quot; Female NPT to Male B-Size, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0245</td>
<td>1/4&quot; Female NPT to Male B-Size, LH</td>
<td>Acet/F. Gases</td>
</tr>
<tr>
<td>0103</td>
<td>Male A-Size to Female B-Size, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0104</td>
<td>Male A-Size to Female B-Size, LH</td>
<td>Acet/F. Gases</td>
</tr>
<tr>
<td>0105</td>
<td>Male B-Size to Female A-Size, RH</td>
<td>Oxygen</td>
</tr>
<tr>
<td>0106</td>
<td>Male B-Size to Female A-Size, LH</td>
<td>Acet/F. Gases</td>
</tr>
</tbody>
</table>

Hose Adaptors, Brass
Pressures To 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>0130</td>
<td>Oxygen RH, A-Size to A-Size</td>
<td>A-Size</td>
</tr>
<tr>
<td>0131</td>
<td>Acet/F. Gases LH, A-Size to A-Size</td>
<td>A-Size</td>
</tr>
<tr>
<td>0230</td>
<td>Oxygen RH, A-Size to B-Size</td>
<td>A-Size/B-Size</td>
</tr>
<tr>
<td>0231</td>
<td>Acet/F. Gases LH, A-Size to B-Size</td>
<td>A-Size/B-Size</td>
</tr>
<tr>
<td>0030</td>
<td>Oxygen RH, B-Size to B-Size</td>
<td>B-Size</td>
</tr>
<tr>
<td>0031</td>
<td>Acet/F. Gases LH, B-Size to B-Size</td>
<td>B-Size</td>
</tr>
<tr>
<td>C-30</td>
<td>Oxygen RH, C-Size to C-Size</td>
<td>C-Size</td>
</tr>
<tr>
<td>C-31</td>
<td>Acetylene/F. Gases LH, C-Size to C-Size</td>
<td>C-Size</td>
</tr>
<tr>
<td>D-30</td>
<td>Oxygen RH, D-Size to D-Size</td>
<td>D-Size</td>
</tr>
<tr>
<td>D-31</td>
<td>Acetylene/F. Gases LH, D-Size to D-Size</td>
<td>D-Size</td>
</tr>
</tbody>
</table>
Hose Splicers, Brass
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Style</th>
</tr>
</thead>
<tbody>
<tr>
<td>0035</td>
<td>3/16” to 3/16” ID Hose</td>
<td>Spiral Hex</td>
</tr>
<tr>
<td>0034</td>
<td>1/4” to 1/4” ID Hose</td>
<td>Spiral Hex</td>
</tr>
<tr>
<td>0238</td>
<td>3/8” to 3/8” ID Hose</td>
<td>Spiral Hex</td>
</tr>
<tr>
<td>0038</td>
<td>3/16” to 3/16” ID Hose</td>
<td>Barb Hex</td>
</tr>
<tr>
<td>0039</td>
<td>3/16” to 1/4” ID Hose</td>
<td>Barb Hex</td>
</tr>
<tr>
<td>0037</td>
<td>1/4” to 1/4” ID Hose</td>
<td>Barb Hex</td>
</tr>
<tr>
<td>0139</td>
<td>5/16” to 5/16” ID Hose</td>
<td>Barb Hex</td>
</tr>
<tr>
<td>0149</td>
<td>3/8” to 3/8” ID Hose</td>
<td>Barb Hex</td>
</tr>
<tr>
<td>C-38</td>
<td>1/2” to 1/2” ID Hose</td>
<td>Barb Hex</td>
</tr>
<tr>
<td>D-38</td>
<td>3/4” to 3/4” ID Hose</td>
<td>Barb Hex</td>
</tr>
<tr>
<td>0045</td>
<td>3/16” to 3/16” ID Hose</td>
<td>Bar Round</td>
</tr>
<tr>
<td>0044</td>
<td>1/4” to 1/4” ID Hose</td>
<td>Bar Round</td>
</tr>
<tr>
<td>0046</td>
<td>5/16” to 5/16” ID Hose</td>
<td>Bar Round</td>
</tr>
<tr>
<td>0047</td>
<td>3/8” to 3/8” ID Hose</td>
<td>Bar Round</td>
</tr>
<tr>
<td>0048</td>
<td>1/2” to 1/2” ID Hose</td>
<td>Bar Round</td>
</tr>
<tr>
<td>0053</td>
<td>1/8” to 1/8” ID Hose</td>
<td>Bar No Stop</td>
</tr>
<tr>
<td>0055</td>
<td>3/16” to 3/16” ID Hose</td>
<td>Bar No Stop</td>
</tr>
<tr>
<td>0054</td>
<td>1/4” to 1/4” ID Hose</td>
<td>Bar No Stop</td>
</tr>
<tr>
<td>0056</td>
<td>5/16” to 5/16” ID Hose</td>
<td>Bar No Stop</td>
</tr>
<tr>
<td>0057</td>
<td>3/8” to 3/8” ID Hose</td>
<td>Bar No Stop</td>
</tr>
<tr>
<td>C-37</td>
<td>1/2” to 1/2” ID Hose</td>
<td>Bar No Stop</td>
</tr>
</tbody>
</table>

Torch Tip Nut Replacements/Tip Nuts for Cutting Torches & Attachments

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Thread Size</th>
<th>Material</th>
<th>Replaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>TN1-1</td>
<td>7/8” - 20</td>
<td>Brass</td>
<td>Harris 2459</td>
</tr>
<tr>
<td>TN1-2</td>
<td>7/8” - 20</td>
<td>Brass</td>
<td>Harris 6259-B</td>
</tr>
<tr>
<td>TN2-1</td>
<td>15/16” - 18</td>
<td>Brass</td>
<td>Victor 0309-0018</td>
</tr>
<tr>
<td>TN2-2</td>
<td>7/8” - 20</td>
<td>Brass</td>
<td>Victor 0309-0003</td>
</tr>
<tr>
<td>TN3-1</td>
<td>7/8” - 20</td>
<td>Brass</td>
<td>Linde 33-A-59</td>
</tr>
<tr>
<td>TN4-1</td>
<td>7/8” - 20</td>
<td>Brass</td>
<td>Airco 831-2259</td>
</tr>
</tbody>
</table>

Chain & Plug Assemblies, Brass
Pressure to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Size</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>0927</td>
<td>2-Piece Assembly, Gas Tight Seal, Female Oxygen RH Nut &amp; Plug</td>
<td>B-Size</td>
<td>CGA-022</td>
</tr>
<tr>
<td>0928</td>
<td>2-Piece Assembly, Gas Tight Seal, Female Acetylene LH Nut &amp; Plug</td>
<td>B-Size</td>
<td>CGA-023</td>
</tr>
<tr>
<td>DC-B7</td>
<td>1-Piece Dust Cap, Not Gas Tight, Female Oxygen RH</td>
<td>B-Size</td>
<td>CGA-022</td>
</tr>
<tr>
<td>DC-B8</td>
<td>1-Piece Dust Cap, Not Gas Tight, Female Acetylene LH</td>
<td>B-Size</td>
<td>CGA-023</td>
</tr>
<tr>
<td>C-907</td>
<td>2-Piece Assembly, Gas Tight Seal, Female Oxygen, RH Nut &amp; Plug</td>
<td>C-Size</td>
<td>CGA-024</td>
</tr>
<tr>
<td>C-908</td>
<td>2-Piece Assembly, Gas Tight Seal, Female Acetylene LH Nut &amp; Plug</td>
<td>C-Size</td>
<td>CGA-025</td>
</tr>
<tr>
<td>DC-C7</td>
<td>1-Piece Dust Cap, Not Gas Tight, Female Oxygen RH</td>
<td>C-Size</td>
<td>CGA-024</td>
</tr>
<tr>
<td>DC-C8</td>
<td>1-Piece Dust Cap, Not Gas Tight, Female Acetylene LH</td>
<td>C-Size</td>
<td>CGA-025</td>
</tr>
<tr>
<td>D-907</td>
<td>2-Piece Assembly, Gas Tight Seal, Female Oxygen RH, Nut &amp; Plug</td>
<td>D-Size</td>
<td>CGA-026</td>
</tr>
<tr>
<td>D-908</td>
<td>2-Piece Assembly, Gas Tight Seal, Female Acetylene, LH, Nut &amp; Plug</td>
<td>D-Size</td>
<td>CGA-027</td>
</tr>
</tbody>
</table>
## Inert Arc Fittings for MIG/TIG Torches

### Inert Arc Nuts, Brass (TIG)
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Size</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Size (3/8&quot;-24)</td>
<td>* B-Size (5/8&quot;-18)</td>
<td>* C-Size (7/8&quot;-14)</td>
<td></td>
</tr>
<tr>
<td>0009</td>
<td>Inert Gas, Female RH</td>
<td>A-Size</td>
<td>CGA-020</td>
</tr>
<tr>
<td>0010</td>
<td>Water, Female LH</td>
<td>A-Size</td>
<td>CGA-021</td>
</tr>
<tr>
<td>AW-21</td>
<td>Water, Male LH</td>
<td>A-Size</td>
<td>CGA-031</td>
</tr>
<tr>
<td>AW-21A</td>
<td>Inert Gas, Male RH</td>
<td>A-Size</td>
<td>CGA-030</td>
</tr>
</tbody>
</table>

**Use Above With AW-13, AW-24, A-Size Cable Nipples**

| AW-7     | Air-Water, Female RH | B-Size |         |

**Use Above With AW-30 and AW-32 Couplers**

| AW-14    | Water, Male LH       | B-Size | CGA-033 |
| AW-14A   | Inert Gas, Male RH   | B-Size | CGA-032 |

**Use Above With All B-Size Inert Arc Nipples**

| AW-10    | Water, Male LH       | C-Size | CGA-035 |
| AW-10A   | Inert Gas, Male RH   | C-Size | CGA-034 |

**Use Above With All C-Size Power Cable Nipples**

### Inert Arc Nipples, Brass (TIG)
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Size (3/8&quot;-24)</td>
<td>* B-Size (5/8&quot;-18)</td>
<td></td>
</tr>
<tr>
<td>AW-24</td>
<td>2&quot; Long, Barb for 1/8&quot; ID Hose</td>
<td>A-Size</td>
</tr>
<tr>
<td>AW-13</td>
<td>2&quot; Long, Barb for 3/16&quot; ID Hose</td>
<td>A-Size</td>
</tr>
</tbody>
</table>

**Use Above With 9, 10, AW-21, AW-21A Nuts**

| AW-3     | 2.175" Long, 1/8" NPT | B-Size |
| AW-16    | 2-7/32" Long, Barb for 1/8" ID Hose | B-Size |
| AW-17    | 2-7/32" Long, Barb for 1/4" ID Hose | B-Size |
| AW-18    | 2-7/32" Long, Barb for 3/16" ID Hose | B-Size |
| AW-19    | 2-7/32" Long, Barb for 3/8" ID Hose | B-Size |
| AW-20    | 2-7/32" Long, Barb for 5/16" ID Hose | B-Size |

**Use Above with AW-14, AW-14A, AW-7 Nuts**

| AW-16B   | 1-13/32" Long, for 1/8" ID Hose, .190 OD | B-Size |
| AW-40    | 2" Long, Undersized 1/8" Barb | B-Size |
| AW-47    | 2-7/32" Long, Special 1/4" Barb | B-Size |

### Inert Arc Adaptors, Brass
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Size (3/8&quot;-24)</td>
<td>* B-Size (5/8&quot;-18)</td>
<td>* C-Size (7/8&quot;-14)</td>
</tr>
<tr>
<td>AW-12</td>
<td>1/8&quot; NPT Male to A-Size Female LH Water</td>
<td>A-Size</td>
</tr>
<tr>
<td>AW-12A</td>
<td>1/8&quot; NPT Male to A-Size Female RH Inert Gas</td>
<td>A-Size</td>
</tr>
<tr>
<td>AW-152</td>
<td>1/8&quot; NPT Male to B-Size Female LH Inert Gas</td>
<td>A-Size</td>
</tr>
<tr>
<td>AW-152A</td>
<td>1/8&quot; NPT Male to B-Size Female RH Inert Gas</td>
<td>B-Size</td>
</tr>
<tr>
<td>AW-15</td>
<td>1/4&quot; NPT Male to B-Size Female LH Water</td>
<td>B-Size</td>
</tr>
<tr>
<td>AW-15A</td>
<td>1/4&quot; NPT Male to B-Size Female RH Inert Gas</td>
<td>B-Size</td>
</tr>
<tr>
<td>AW-28</td>
<td>9/16-18 Male to B-Size Female LH</td>
<td>B-Size</td>
</tr>
<tr>
<td>AW-28A</td>
<td>9/16-18 Male to B-Size Female RH</td>
<td>B-Size</td>
</tr>
<tr>
<td>AW-27</td>
<td>1/4&quot; NPT Male to C-Size Female LH Water</td>
<td>C-Size</td>
</tr>
<tr>
<td>AW-27A</td>
<td>1/4&quot; NPT Male to C-Size Female RH Inert Gas</td>
<td>C-Size</td>
</tr>
</tbody>
</table>
Inert Arc Fittings for MIG/TIG Torches

### Inert Arc Hose & Torch Adaptors, Brass
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-403</td>
<td>RHM to CGA-022 9/16&quot;-18 RHM</td>
</tr>
<tr>
<td>AW-404</td>
<td>LHM to B-Size RHM</td>
</tr>
<tr>
<td>AW-405</td>
<td>RHF to CGA-022 9/16&quot;-18 RHF</td>
</tr>
<tr>
<td>AW-406</td>
<td>LHF to B-Size RHF</td>
</tr>
<tr>
<td>AW-407</td>
<td>RHM to B-Size RHF -90°</td>
</tr>
<tr>
<td>AW-408</td>
<td>RHM to B-Size LHF -90°</td>
</tr>
<tr>
<td>AW-409</td>
<td>RHM to B-Size RHM</td>
</tr>
<tr>
<td>AW-423</td>
<td>RHM to CGA-023 9/16&quot;-18 LHM</td>
</tr>
<tr>
<td>AW-424</td>
<td>LHM to CGA-023 9/16&quot;-18 LHM</td>
</tr>
<tr>
<td>AW-425</td>
<td>RHF to CGA-023 9/16&quot;-18 LHF</td>
</tr>
<tr>
<td>AW-426</td>
<td>LHF to CGA-023 9/16&quot;-18 LHF</td>
</tr>
<tr>
<td>AW-427</td>
<td>RHM to 1/4&quot; NPT M</td>
</tr>
<tr>
<td>AW-428</td>
<td>LHM to 1/4&quot; NPT M</td>
</tr>
<tr>
<td>AW-432</td>
<td>RHM to CGA-022 9/16&quot;-18 RHF</td>
</tr>
<tr>
<td>AW-432B</td>
<td>9/16&quot; - 18 F to 5/8&quot; - 18 F</td>
</tr>
<tr>
<td>AW-433</td>
<td>RHM to CGA-023 9/16&quot;-18 LHF</td>
</tr>
</tbody>
</table>

### Inert Arc Hose Couplers, Brass
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-430A</td>
<td>CGA-030 RH Female to A-Size RH Female A-Size</td>
</tr>
<tr>
<td>AW-431A</td>
<td>CGA-031 LH Female to A-Size LH Female A-Size</td>
</tr>
<tr>
<td>AW-430</td>
<td>CGA-032 RH Female to B-Size RH Female B-Size</td>
</tr>
<tr>
<td>AW-431</td>
<td>CGA-033 LH Female to B-Size LH Female B-Size</td>
</tr>
<tr>
<td>AW-430B</td>
<td>1/4&quot; NPT Female to CGA-032 RH Female B-Size</td>
</tr>
<tr>
<td>AW-431B</td>
<td>1/4&quot; NPT Female to CGA-033 LH Female B-Size</td>
</tr>
<tr>
<td>AW-430C</td>
<td>CGA-034 RH Female to C-Size RH Female C-Size</td>
</tr>
<tr>
<td>AW-431C</td>
<td>CGA-035 LH Female to C-Size LH Female C-Size</td>
</tr>
</tbody>
</table>

### Inert Arc Air-Water Couplers, Brass
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-30</td>
<td>Male RH to B-Size Male RH</td>
</tr>
<tr>
<td>AW-32</td>
<td>1/4&quot;-18 NPT Male to B-Size Male RH B-Size</td>
</tr>
<tr>
<td>AW-34</td>
<td>Male RH to 9/16&quot;-18 Male RH</td>
</tr>
<tr>
<td>AW-35</td>
<td>Male LH to 9/16&quot;-18 Male LH</td>
</tr>
</tbody>
</table>

### Inert Arc Power Cable Adaptors, Brass (TIG)
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-110</td>
<td>RH Female to A-Size RH Female, 2-15/16&quot; Long B-Size</td>
</tr>
<tr>
<td>AW-105</td>
<td>RH Female to B-Size RH Female, 3/4&quot; Hex, 2-1/8&quot; Long B-Size</td>
</tr>
<tr>
<td>AW-107</td>
<td>LH Female to B-Size LH Female, 3/4&quot; Hex, 2-1/8&quot; Long B-Size</td>
</tr>
<tr>
<td>AW-108</td>
<td>RH Female to B-Size RH Female, 1-1/8&quot; Hex, 2&quot; Long C-Size</td>
</tr>
<tr>
<td>AW-109</td>
<td>LH Female to B-Size LH Female, 1-1/8&quot; Hex, 2&quot; Long C-Size</td>
</tr>
</tbody>
</table>
Inert Arc Fittings for MIG/TIG Torches

**Inert Arc Power Cable Nipples & Connector Assemblies, Brass**
Pressures To 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-44</td>
<td>1/8&quot; ID Hose, .22 OD Tube, 1-3/4&quot; Long</td>
<td>A-Size</td>
</tr>
<tr>
<td>AW-45</td>
<td>3/16&quot; ID Hose, .245 OD Tube, 2-3/8&quot; Long</td>
<td>A-Size</td>
</tr>
<tr>
<td>AW-46</td>
<td>3/8&quot; ID Hose, .36 OD Tube, 2-3/4&quot; Long</td>
<td>B-Size</td>
</tr>
<tr>
<td>AW-49</td>
<td>.219&quot; OD Copper Tube, 2-3/8&quot; Long Overall</td>
<td>B-Size</td>
</tr>
<tr>
<td>AW-22</td>
<td>.312” OD Copper Tube, 3-11/32” Long</td>
<td>C-Size</td>
</tr>
<tr>
<td>AW-26</td>
<td>.225” OD Brass Tube, 1.45” Long</td>
<td>C-Size</td>
</tr>
<tr>
<td>AW-51</td>
<td>.375” OD Copper Tube, 3-3/8” Long</td>
<td>C-Size</td>
</tr>
<tr>
<td>AW-52</td>
<td>.218” OD Copper Tube, 3-3/8” Long</td>
<td>C-Size</td>
</tr>
</tbody>
</table>

**Inert Arc Power Cable Nut, Nipples & Copper Tube Assemblies**
Pressures To 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW-22</td>
<td>Nipple &amp; .312 OD Copper Tube with Brass A-Size LH Swivel Nut, 2-13/16” Long</td>
</tr>
<tr>
<td>AW-22A</td>
<td>Nipple &amp; .312 OD Copper Tube with Brass A-Size RH Swivel Nut, 2-13/16” Long</td>
</tr>
<tr>
<td>AW-25</td>
<td>Nipple &amp; .312 OD Copper Tube with Brass A-Size Female Swivel Nut, 2-5/8” Long</td>
</tr>
<tr>
<td>AW-51</td>
<td>Nipple &amp; .375” OD Copper Tube with 7/16”-20 Female Nut, 2-5/16” Long</td>
</tr>
<tr>
<td>AW-53</td>
<td>Nipple &amp; .218” OD Copper Tube with RH 1/4”-28 Female Nut, 1-15/16” Long</td>
</tr>
<tr>
<td>AW-55</td>
<td>Nipple &amp; .312” OD Copper Tube with 7/16”-20 Female Nut, 2” Long</td>
</tr>
<tr>
<td>AW-56</td>
<td>Nipple &amp; .375” OD Copper Tube with 5/8”-18 RH Male Nut (AW14-A), 3-1/4” Long</td>
</tr>
</tbody>
</table>

Your Best Investment for Efficiency and Reliability.

Industrial Regulators • Flashback Arrestors
Quick Disconnects • Check Valves • Gas Fittings
Pigtails and Related Manifold Equipment
"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

Valved "Y" Connections, Brass
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>0111</td>
<td>Oxygen RH: B-Size F Inlet to B-Size M Outlets</td>
<td>CGA-022</td>
</tr>
<tr>
<td>0112*</td>
<td>Acetylene/F. Gases LH: B-Size F Inlet to B-Size M Outlets</td>
<td>CGA-023</td>
</tr>
<tr>
<td>0115</td>
<td>Oxygen RH: A-Size F Inlet to A-Size M Outlets</td>
<td>CGA-020</td>
</tr>
<tr>
<td>0116*</td>
<td>Acetylene/F. Gases LH: A-Size F Inlet to A-Size M Outlets</td>
<td>CGA-021</td>
</tr>
<tr>
<td>0411</td>
<td>Inert Gas RH: 5/8'-18 M Inlet to 5/8'-18 F Outlets</td>
<td>CGA-032</td>
</tr>
<tr>
<td>0412</td>
<td>Water, Industrial Air LH: 5/8'-18 M Inlet to 5/8'-18 F Outlets</td>
<td>CGA-033</td>
</tr>
</tbody>
</table>

*Sold in retail clamshell packaging

Valves, Brass
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSV-1-1</td>
<td>RH, Gas Tight Plug/Chain</td>
<td>CGA-026</td>
</tr>
<tr>
<td>WSV-1-2</td>
<td>LH, Gas Tight Plug/Chain</td>
<td>CGA-026</td>
</tr>
<tr>
<td>WSV-1-1P</td>
<td>RH, No Outlet Protection</td>
<td>CGA-026</td>
</tr>
<tr>
<td>WSV-1-2P</td>
<td>LH, No Outlet Protection</td>
<td>CGA-026</td>
</tr>
</tbody>
</table>

Brass Body Valves
for Non-Corrosive Gases
Pressures to 200 PSIG (1400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Service</th>
<th>Inlet</th>
<th>Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>0101</td>
<td>Oxygen</td>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Male</td>
</tr>
<tr>
<td>0102</td>
<td>Acetylene/F. Gases</td>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Male</td>
</tr>
<tr>
<td>0113</td>
<td>Oxygen</td>
<td>1/4&quot; NPT Male</td>
<td>1/4&quot; NPT Male</td>
</tr>
<tr>
<td>0114</td>
<td>Acetylene/F. Gases</td>
<td>1/4&quot; NPT Male</td>
<td>1/4&quot; NPT Male</td>
</tr>
<tr>
<td>0115</td>
<td>Oxygen</td>
<td>1/4&quot; NPT Male</td>
<td>1/4&quot; NPT Male</td>
</tr>
<tr>
<td>0116</td>
<td>Acetylene/F. Gases</td>
<td>1/4&quot; NPT Male</td>
<td>1/4&quot; NPT Male</td>
</tr>
<tr>
<td>0117</td>
<td>Oxygen</td>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Female</td>
</tr>
<tr>
<td>0118</td>
<td>Acetylene/F. Gases</td>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Female</td>
</tr>
<tr>
<td>0119</td>
<td>Oxygen</td>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Female</td>
</tr>
<tr>
<td>0120</td>
<td>Acetylene/F. Gases</td>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Female</td>
</tr>
<tr>
<td>215-AR</td>
<td>Inert Gas</td>
<td>1/4&quot; NPT Male</td>
<td>5/8'-18 Female LH</td>
</tr>
<tr>
<td>215-AL</td>
<td>Inert Gas</td>
<td>1/4&quot; NPT Male</td>
<td>5/8'-18 Female LH</td>
</tr>
<tr>
<td>215-FR</td>
<td>Inert Gas</td>
<td>1/4&quot; NPT Male</td>
<td>5/8'-18 Female LH</td>
</tr>
</tbody>
</table>

Pressures to 3000 PSIG (20,700 kPa) All Non-Corrosive Gases

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Service</th>
<th>Inlet</th>
<th>Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>211-E</td>
<td>1/8&quot; NPT Male</td>
<td>1/8&quot; NPT Male</td>
<td></td>
</tr>
<tr>
<td>2111</td>
<td>1/4&quot; NPT Male</td>
<td>1/4&quot; NPT Male</td>
<td></td>
</tr>
<tr>
<td>2117</td>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Female</td>
<td></td>
</tr>
<tr>
<td>018</td>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Male</td>
<td></td>
</tr>
<tr>
<td>218-D</td>
<td>1/4&quot; NPT Female</td>
<td>1/4&quot; NPT Female</td>
<td></td>
</tr>
</tbody>
</table>
## Valves / Pipe Thread Fittings

### Cartridge Valves, Stainless Steel

1/4" NPT M x 1/4" NPT M

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Body &amp; Seat Style</th>
<th>Description</th>
<th>Max PSIG</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-110S</td>
<td>Male, Metal-To-Metal Seat</td>
<td>For corrosive gases</td>
<td>6000</td>
</tr>
<tr>
<td>SS-110K</td>
<td>Male, Soft Seat</td>
<td>Minimal force shut-off</td>
<td>3000</td>
</tr>
<tr>
<td>SS-110M</td>
<td>Male, Metering Seat</td>
<td>Fine thread for accuracy</td>
<td>6000</td>
</tr>
<tr>
<td>SS-120S</td>
<td>Male 90°, Metal-To-Metal Seat</td>
<td>For corrosive gases</td>
<td>6000</td>
</tr>
<tr>
<td>SS-120K</td>
<td>Male 90°, Soft Seat</td>
<td>Minimal force shut-off</td>
<td>3000</td>
</tr>
<tr>
<td>SS-120M</td>
<td>Male 90°, Metering Seat</td>
<td>Fine thread for accuracy</td>
<td>6000</td>
</tr>
<tr>
<td>SS-130S</td>
<td>Female, Metal-To-Metal Seat</td>
<td>For corrosive gases</td>
<td>6000</td>
</tr>
<tr>
<td>SS-130M</td>
<td>Female, Metering Seat</td>
<td>Fine thread for accuracy</td>
<td>6000</td>
</tr>
</tbody>
</table>

### Replacement Cartridges

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-CS</td>
<td>Metal-To-Metal Seat Cartridge</td>
</tr>
<tr>
<td>SS-CK</td>
<td>Soft Seat Cartridge</td>
</tr>
</tbody>
</table>

### Safety Relief Valves, Brass

- For gaseous or liquid nitrogen, oxygen, air and other cryogenic fluids

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Max PSIG (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMV-4-22</td>
<td>22 PSIG Setting</td>
<td>Brass</td>
<td>6900</td>
</tr>
<tr>
<td>WMV-4-35</td>
<td>35 PSIG Setting</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>WMV-4-50</td>
<td>50 PSIG Setting</td>
<td>Brass</td>
<td>6900</td>
</tr>
<tr>
<td>WMV-4-100</td>
<td>100 PSIG Setting</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>WMV-4-125</td>
<td>125 PSIG Setting</td>
<td>Brass</td>
<td>6900</td>
</tr>
<tr>
<td>WMV-4-230</td>
<td>230 PSIG Setting</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>WMV-4-235</td>
<td>235 PSIG Setting</td>
<td>Brass</td>
<td>6900</td>
</tr>
<tr>
<td>WMV-4-350</td>
<td>350 PSIG Setting</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>WMV-4-7</td>
<td>Pipe-away Adaptor, All Models</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Pipe Thread Fittings

#### Pipe Thread Crosses

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Max PSIG (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCR-4LP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>6900</td>
</tr>
<tr>
<td>BCR-4HP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>BCR-4SS</td>
<td>1/4&quot; NPT</td>
<td>St. Steel</td>
<td>41,300</td>
</tr>
</tbody>
</table>

#### Pipe Thread Tees

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Max PSIG (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BFT-2LP</td>
<td>1/8&quot; NPT</td>
<td>Brass</td>
<td>6900</td>
</tr>
<tr>
<td>BFT-2HP</td>
<td>1/8&quot; NPT</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>BFT-4LP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>6900</td>
</tr>
<tr>
<td>BFT-4HP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>BFT-4SS</td>
<td>1/4&quot; NPT</td>
<td>St. Steel</td>
<td>41,300</td>
</tr>
<tr>
<td>BFT-6HP</td>
<td>3/8&quot; NPT</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>BFT-12LP</td>
<td>3/4&quot; NPT</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>BMT-2HP</td>
<td>1/8&quot; NPT (Branch)</td>
<td>Brass</td>
<td>20,700</td>
</tr>
<tr>
<td>BMT-4LP</td>
<td>1/4&quot; NPT (Branch)</td>
<td>Brass</td>
<td>6900</td>
</tr>
<tr>
<td>BST-4LP</td>
<td>1/4&quot; NPT (Street)</td>
<td>Brass</td>
<td>6900</td>
</tr>
<tr>
<td>BST-4HP</td>
<td>1/4&quot; NPT (Branch)</td>
<td>Brass</td>
<td>20,700</td>
</tr>
</tbody>
</table>

www.middlesexgases.com
### Pipe Thread Fittings

#### Pipe Thread Reducer Couplings, Female to Female
Brass, Pressures to 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>BF-4-2HP</td>
<td>1/4&quot; NPT x 1/8&quot; NPT</td>
<td>1.093&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>BF-6-4HP</td>
<td>3/8&quot; NPT x 1/4&quot; NPT</td>
<td>1.281&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>BF-8-4HP</td>
<td>1/2&quot; NPT x 1/4&quot; NPT</td>
<td>1.671&quot;</td>
<td>1-1/8&quot;</td>
</tr>
<tr>
<td>BF-12-8HP</td>
<td>3/4&quot; NPT x 1/2&quot; NPT</td>
<td>1.700&quot;</td>
<td>1-3/8&quot;</td>
</tr>
</tbody>
</table>

#### Pipe Thread Adaptors, Female to Male
To 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Length</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA-4-2HP</td>
<td>1/4&quot; NPT x 1/8&quot; NPT</td>
<td>Brass</td>
<td>1.062&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>BA-4HP</td>
<td>1/4&quot; NPT x 1/4&quot; NPT</td>
<td>Brass</td>
<td>1.281&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>BA-6-4HP</td>
<td>3/8&quot; NPT x 1/4&quot; NPT</td>
<td>Brass</td>
<td>1.312&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>BA-8-4HP</td>
<td>1/2&quot; NPT x 1/4&quot; NPT</td>
<td>Brass</td>
<td>1.500&quot;</td>
<td>1-1/8&quot;</td>
</tr>
<tr>
<td>BA-8-6HP</td>
<td>1/2&quot; NPT x 3/8&quot; NPT</td>
<td>Brass</td>
<td>1.562&quot;</td>
<td>1-1/8&quot;</td>
</tr>
</tbody>
</table>

#### Pipe Thread Hex Nipples, Male to Male

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Length</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>To 3000 PSIG (20,700 kPa):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-2HP</td>
<td>1/8&quot; NPT x 1/8&quot; NPT</td>
<td>Brass</td>
<td>.937&quot;</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>B-4HP</td>
<td>1/4&quot; NPT x 1/4&quot; NPT</td>
<td>Brass</td>
<td>1.437&quot;</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>B-6HP</td>
<td>3/8&quot; NPT x 3/8&quot; NPT</td>
<td>Brass</td>
<td>1.500&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>B-8HP</td>
<td>1/2&quot; NPT x 1/2&quot; NPT</td>
<td>Brass</td>
<td>1.875&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>B-9HP</td>
<td>3/4&quot; NPT x 3/4&quot; NPT</td>
<td>Brass</td>
<td>1.937&quot;</td>
<td>1-1/8&quot;</td>
</tr>
<tr>
<td>To 6000 PSIG (41,300 kPa):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-4SS</td>
<td>1/4&quot; NPT x 1/4&quot; NPT</td>
<td>St. Steel</td>
<td>1.437&quot;</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>

#### Pipe Thread Couplings, Female to Female

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Length</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>To 3000 PSIG (20,700 kPa):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BF-2HP</td>
<td>1/8&quot; NPT x 1/8&quot; NPT</td>
<td>Brass</td>
<td>.800&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>BF-4HP</td>
<td>1/4&quot; NPT x 1/4&quot; NPT</td>
<td>Brass</td>
<td>1.187&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>BF-6HP</td>
<td>3/8&quot; NPT x 3/8&quot; NPT</td>
<td>Brass</td>
<td>1.180&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>BF-8HP</td>
<td>1/2&quot; NPT x 1/2&quot; NPT</td>
<td>Brass</td>
<td>1.500&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td>BF-12HP</td>
<td>3/4&quot; NPT x 3/4&quot; NPT</td>
<td>Brass</td>
<td>1.520&quot;</td>
<td>1-3/8&quot;</td>
</tr>
<tr>
<td>To 6000 PSIG (41,300 kPa):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BF-4SS</td>
<td>1/4&quot; NPT x 1/4&quot; NPT</td>
<td>St. Steel</td>
<td>1.187&quot;</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>

#### Pipe Thread Reducer Bushings, Male to Male
Pressures to 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Length</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-4-2HP</td>
<td>1/4&quot; NPT x 1/8&quot; NPT</td>
<td>Brass</td>
<td>1.250&quot;</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>B-6-4HP</td>
<td>3/8&quot; NPT x 1/4&quot; NPT</td>
<td>Brass</td>
<td>1.467&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>B-8-4HP</td>
<td>1/2&quot; NPT x 1/4&quot; NPT</td>
<td>Brass</td>
<td>1.667&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>B-8-6HP</td>
<td>1/2&quot; NPT x 3/8&quot; NPT</td>
<td>Brass</td>
<td>1.718&quot;</td>
<td>7/8&quot;</td>
</tr>
</tbody>
</table>

#### Pipe Thread Extension Adaptors, Female to Male
Pressures to 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Length</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE-2-25HP</td>
<td>1/8&quot; NPT</td>
<td>Brass</td>
<td>2-1/2&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>BE-4-3HP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>3&quot;</td>
<td>3/4&quot;</td>
</tr>
</tbody>
</table>
Pipe Thread Fittings

Pipe Thread Bushings, Female to Male
Pressures to 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Length</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB-2-4HP</td>
<td>1/8&quot; NPT x 1/4&quot; NPT</td>
<td>Brass</td>
<td>.875&quot;</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>BB-2-6HP</td>
<td>1/8&quot; NPT x 3/8&quot; NPT</td>
<td>Brass</td>
<td>.906&quot;</td>
<td>11/16&quot;</td>
</tr>
<tr>
<td>BB-4-6HP</td>
<td>1/4&quot; NPT x 3/8&quot; NPT</td>
<td>Brass</td>
<td>.968&quot;</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>BB-4-8HP</td>
<td>1/4&quot; NPT x 1/2&quot; NPT</td>
<td>Brass</td>
<td>1.125&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>BB-4-12HP</td>
<td>1/4&quot; NPT x 3/4&quot; NPT</td>
<td>Brass</td>
<td>1.168&quot;</td>
<td>1-1/8&quot;</td>
</tr>
<tr>
<td>BB-6-8HP</td>
<td>3/8&quot; NPT x 1/2&quot; NPT</td>
<td>Brass</td>
<td>1.125&quot;</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>BB-8-12HP</td>
<td>1/2&quot; NPT x 3/4&quot; NPT</td>
<td>Brass</td>
<td>1.168&quot;</td>
<td>1-1/8&quot;</td>
</tr>
</tbody>
</table>

Pipe Thread Caps & Plugs

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Hex</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC-2HP</td>
<td>Cap, 1/8&quot; NPT F</td>
<td>Brass</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>PC-4HP</td>
<td>Cap, 1/4&quot; NPT F</td>
<td>Brass</td>
<td>3/4&quot;</td>
</tr>
<tr>
<td>PC-6HP</td>
<td>Cap, 3/8&quot; NPT F</td>
<td>Brass</td>
<td>7/8&quot;</td>
</tr>
<tr>
<td>PC-8HP</td>
<td>Cap, 1/2&quot; NPT F</td>
<td>Brass</td>
<td>1-1/8&quot;</td>
</tr>
<tr>
<td>P-4HP</td>
<td>Hex Plug, 1/4&quot; NPT M</td>
<td>Brass</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>

Pressures to 6000 PSIG (41,300 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-4SS</td>
<td>Hex Plug, 1/4&quot; NPT</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

Pipe Thread Nipples, Male
Pressures to 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>BN-2-25HP</td>
<td>1/8&quot; NPT</td>
<td>Brass</td>
<td>2-1/2'</td>
</tr>
<tr>
<td>BN-4-15HP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>1-1/2'</td>
</tr>
<tr>
<td>BN-4-20HP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>2'</td>
</tr>
<tr>
<td>BN-4-30HP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>3'</td>
</tr>
<tr>
<td>BN-4-35HP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>3-1/2'</td>
</tr>
<tr>
<td>BN-4-50HP</td>
<td>1/4&quot; NPT</td>
<td>Brass</td>
<td>5'</td>
</tr>
<tr>
<td>BN-6-35HP</td>
<td>3/8&quot; NPT</td>
<td>Brass</td>
<td>3-1/2'</td>
</tr>
<tr>
<td>BN-8-35HP</td>
<td>1/2&quot; NPT</td>
<td>Brass</td>
<td>3-1/2'</td>
</tr>
</tbody>
</table>

Pipe Thread Elbows

(90° Female to Female NPT)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Max PSIG (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEL-4-4LP</td>
<td>1/4&quot; x 1/4'</td>
<td>Brass</td>
<td>1000 (6900)</td>
</tr>
<tr>
<td>BEL-4HP</td>
<td>1/4&quot; x 1/4'</td>
<td>Brass</td>
<td>3000 (20,700)</td>
</tr>
<tr>
<td>BEL-6HP</td>
<td>3/8&quot; x 3/8'</td>
<td>Brass</td>
<td>3000 (20,700)</td>
</tr>
<tr>
<td>BEL-8HP</td>
<td>1/2&quot; x 1/2'</td>
<td>Brass</td>
<td>3000 (20,700)</td>
</tr>
</tbody>
</table>

(90° Female to Male NPT)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Max PSIG (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BL-2-2LP</td>
<td>1/8&quot; x 1/8'</td>
<td>Brass</td>
<td>1000 (6900)</td>
</tr>
<tr>
<td>BL-2HP</td>
<td>1/8&quot; x 1/8'</td>
<td>Brass</td>
<td>3000 (20,700)</td>
</tr>
<tr>
<td>BL-4-2LP</td>
<td>1/4&quot; x 1/8'</td>
<td>Brass</td>
<td>1000 (6900)</td>
</tr>
<tr>
<td>BL-4-4LP</td>
<td>1/4&quot; x 1/4'</td>
<td>Brass</td>
<td>1000 (6900)</td>
</tr>
<tr>
<td>BL-4SS</td>
<td>1/4&quot; x 1/4'</td>
<td>Stainless Steel</td>
<td>6000 (41,300)</td>
</tr>
<tr>
<td>BL-4HP</td>
<td>1/4&quot; x 1/4'</td>
<td>Brass</td>
<td>3000 (20,700)</td>
</tr>
<tr>
<td>BL-6HP</td>
<td>3/8&quot; x 3/8'</td>
<td>Brass</td>
<td>3000 (20,700)</td>
</tr>
<tr>
<td>BL-8HP</td>
<td>1/2&quot; x 1/2'</td>
<td>Brass</td>
<td>3000 (20,700)</td>
</tr>
</tbody>
</table>

(45° Female to Male NPT)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Max PSIG (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSL-4-4LP</td>
<td>1/4&quot; x 1/4'</td>
<td>Brass</td>
<td>1000 (6900)</td>
</tr>
<tr>
<td>BSL-4HP</td>
<td>1/4&quot; x 1/4'</td>
<td>Brass</td>
<td>3000 (20,700)</td>
</tr>
</tbody>
</table>
**Filters for Regulator Inlet Nipples**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS-2</td>
<td>100 Mesh Stainless Steel: 140 Microns</td>
<td></td>
</tr>
<tr>
<td>OS-3</td>
<td>Porous Metal: Nickel Plated Bronze, 45 Microns</td>
<td></td>
</tr>
</tbody>
</table>

*May be used with all stainless steel and brass nipples, except for CGA-320 nipples*

**Retainer Ring for Selected Nipples**

*May be used with all stainless steel and brass nipples, except for CGA-320 nipples.

*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)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>170-2</td>
<td>Brass, .5625&quot;-18 UNS-2A, RH Female</td>
<td>CGA-170</td>
</tr>
<tr>
<td>170-3SF</td>
<td>Brass, 1/8&quot; NPT, 1-1/2&quot; Long</td>
<td>CGA-170</td>
</tr>
<tr>
<td>170-4</td>
<td>Washer Nylon</td>
<td>CGA-170</td>
</tr>
<tr>
<td>170-5</td>
<td>Adaptor Brass, 1/8&quot; NPT, 1-3/2&quot; Long</td>
<td>CGA-170</td>
</tr>
<tr>
<td>180-2</td>
<td>Brass, .625&quot;-18 UNF-2B, RH Female</td>
<td>CGA-180</td>
</tr>
<tr>
<td>180-3</td>
<td>Brass, 1/8&quot; NPT, 1-3/4&quot; Long</td>
<td>CGA-180</td>
</tr>
<tr>
<td>180-4</td>
<td>Washer Teflon</td>
<td>CGA-180</td>
</tr>
<tr>
<td>180-5</td>
<td>Adaptor Brass, CGA-180 to 1/4&quot; NPT Male</td>
<td>CGA-180</td>
</tr>
</tbody>
</table>

**Regulator Nuts & Nipples, Brass & Stainless Steel**

Pressures to 500 PSIG (3400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>305-2</td>
<td>Brass, &quot;MC&quot; T, .628&quot;-20 NGO, RH Female</td>
<td>CGA-200</td>
</tr>
<tr>
<td>305-3</td>
<td>Brass, 7/16&quot;-20, 1-1/4&quot; Long</td>
<td>CGA-200</td>
</tr>
<tr>
<td>305-3A</td>
<td>Brass, 1/8&quot; NPT, 1-1/4&quot; Long</td>
<td>CGA-200</td>
</tr>
</tbody>
</table>

**Regulator Nuts & Nipples, Brass**

Pressures to 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>0284</td>
<td>Brass, .750&quot;-14 NGO, RH Female</td>
<td>CGA-280</td>
</tr>
<tr>
<td>0283</td>
<td>Brass, 1/4&quot; NPT, 2&quot; Long</td>
<td>CGA-280</td>
</tr>
</tbody>
</table>

**Regulator Nuts & Nipples, Copper**

Pressures to 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>29-2</td>
<td>Brass, .803&quot;-14 UNS-2A, RH Male</td>
<td>CGA-296</td>
</tr>
<tr>
<td>29-3</td>
<td>Brass, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-296</td>
</tr>
<tr>
<td>6296</td>
<td>Brass, Hand-Tight, RH Male</td>
<td>CGA-296</td>
</tr>
<tr>
<td>6296-3</td>
<td>Hand-Tight, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-296</td>
</tr>
<tr>
<td>6296-0</td>
<td>O-Ring Replacement</td>
<td>CGA-296</td>
</tr>
</tbody>
</table>
## Regulator Inlet Nuts & Nipples

### Regulator Nuts & Nipples, Brass
Pressures to 500 PSIG (3445 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA - 300 for Commercial Acetylene:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16-2</td>
<td>Nut Brass, .830&quot;-14 NGO, RH Female</td>
<td>CGA-300</td>
</tr>
<tr>
<td>16-3</td>
<td>Nut Brass, 1/4&quot; NPT, 1-1/16&quot; Long</td>
<td>CGA-300</td>
</tr>
<tr>
<td>16-8</td>
<td>Nipple Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
<td>CGA-300</td>
</tr>
<tr>
<td>16-8CV</td>
<td>Nipple Brass, 1/4&quot; NPT, 2-1/2&quot; Long w/CV</td>
<td>CGA-300</td>
</tr>
<tr>
<td>616-2</td>
<td>Nut Brass, Hand-Tight RH Female</td>
<td>CGA-300</td>
</tr>
<tr>
<td>616-2P</td>
<td>Nut Hand-Tight, Plastic Grip, RH Female</td>
<td>CGA-300</td>
</tr>
<tr>
<td>616-3</td>
<td>Nipple Hand-Tight, 1/4&quot; NPT, 2-1/2&quot; Long</td>
<td>CGA-300</td>
</tr>
<tr>
<td>616-PT</td>
<td>Tip Soft Tip, Replacement</td>
<td>CGA-300</td>
</tr>
</tbody>
</table>

### Regulator Nuts & Nipples, Brass & Stainless Steel
Pressures to 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA - 320 for Carbon Dioxide:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO-2</td>
<td>Nut Brass, .830&quot;-14 NGO RH Female</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-3</td>
<td>Nipple Brass, 1/4&quot; NPT, 2&quot; Long</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-4</td>
<td>Nipple Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-4CV</td>
<td>Nipple Brass, 1/4&quot; NPT, 2-1/2&quot; Long w/Check</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-7</td>
<td>Nipple Brass, 1/2&quot;-27, 2-1/2&quot; Long</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-8</td>
<td>Nipple Brass, 1/4&quot; NPT, LH, 2&quot; Long</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-3M2</td>
<td>Nipple Recessed for 5/16&quot; OD Tube</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-2</td>
<td>Nut Brass, Hand-Tight, RH Female</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-2P</td>
<td>Nut Plastic Grip, Hand-Tight, RH Female</td>
<td>CGA-320</td>
</tr>
<tr>
<td>6-CO-2</td>
<td>Nut Brass, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-320</td>
</tr>
<tr>
<td>6-CO-3M1</td>
<td>Nipple Hand-Tight, 1/4&quot; NPT, 2-1/2&quot; Long</td>
<td>CGA-320</td>
</tr>
<tr>
<td>6-CO-4</td>
<td>Nut Hand-Tight, Recessed for 1/4&quot; Tube</td>
<td>CGA-320</td>
</tr>
<tr>
<td>SS-CO-2</td>
<td>Nut St. Steel, .830&quot;-14 NGO, RH Female</td>
<td>CGA-320</td>
</tr>
<tr>
<td>SS-CO-3</td>
<td>Nipple St. Steel, 1/4&quot; NPT, 2&quot; Long</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-1TW</td>
<td>Washer Teflon, Snap-In</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-5</td>
<td>Washer Fiber, Flat</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-6</td>
<td>Washer Teflon, Flat</td>
<td>CGA-320</td>
</tr>
<tr>
<td>CO-6N</td>
<td>Washer Nylon, Snap-In</td>
<td>CGA-320</td>
</tr>
</tbody>
</table>

### Regulator Nuts & Nipples, Brass & Stainless Steel
Pressures 3001 PSIG to 5500 PSIG (20,950 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA - 347 for Air/High Pressure:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>347-2</td>
<td>Nut Brass, .830&quot;-14 NGO, RH Female</td>
<td>CGA-347</td>
</tr>
<tr>
<td>347-3</td>
<td>Nipple Brass, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-347</td>
</tr>
<tr>
<td>347-3</td>
<td>Nut Hand-Tight, RH Female</td>
<td>CGA-347</td>
</tr>
<tr>
<td>347-3</td>
<td>Nipple Hand-Tight, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-347</td>
</tr>
<tr>
<td>347-3</td>
<td>O-Ring Replacement</td>
<td>CGA-347</td>
</tr>
<tr>
<td>SS-347-2</td>
<td>Nut St. Steel, .830&quot;-14 NGO, RH Female</td>
<td>CGA-347</td>
</tr>
<tr>
<td>SS-347-3</td>
<td>Nipple St. Steel, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-347</td>
</tr>
<tr>
<td>SS-347-3</td>
<td>Nipple Hand-Tight, St. Steel, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-347</td>
</tr>
<tr>
<td>SS-6347-3</td>
<td>Nut Hand-Tight, St. Steel, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-347</td>
</tr>
</tbody>
</table>
### Regulator Nuts & Nipples, Brass & Stainless Steel

**Pressures to 3000 PSIG (20,700 kPa)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA - 350 for Hydrogen/Natural Gas:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0082</td>
<td>Nut</td>
<td>Brass, .830&quot;-14 NGO, LH Female</td>
</tr>
<tr>
<td>0083</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>83-CV</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long w/Check V</td>
</tr>
<tr>
<td>83-M1</td>
<td>Nipple</td>
<td>Recessed for 1/4&quot; OD Tube</td>
</tr>
<tr>
<td>83-M2</td>
<td>Nipple</td>
<td>Recessed for 5/16&quot; OD Tube</td>
</tr>
<tr>
<td>0087</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 3&quot; Long</td>
</tr>
<tr>
<td>0682</td>
<td>Nut</td>
<td>Brass, Hand-Tight, LH Female</td>
</tr>
<tr>
<td>682P</td>
<td>Nut</td>
<td>Plastic Grip, Hand-Tight, LH Female</td>
</tr>
<tr>
<td>0683</td>
<td>Nipple</td>
<td>Hand-Tight, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>683-PT</td>
<td>Tip</td>
<td>Soft Tip Replacement</td>
</tr>
<tr>
<td>SS-82</td>
<td>Nut</td>
<td>St. Steel, .830&quot;-14 NGO, LH Female</td>
</tr>
<tr>
<td>SS-83</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>SS-83M1</td>
<td>Nipple</td>
<td>Recessed for 1/4&quot; OD Tube</td>
</tr>
<tr>
<td>CGA - 500 for Medical Mixtures:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500-2</td>
<td>Nut</td>
<td>Brass, .880&quot;-14 NGO, RH Male</td>
</tr>
<tr>
<td>15-8</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>15-8CV</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long w/CV</td>
</tr>
<tr>
<td>15-3</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 3&quot; Long</td>
</tr>
<tr>
<td>15-4</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 3-1/2&quot; Long</td>
</tr>
<tr>
<td>15-11</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 4-1/2&quot; Long</td>
</tr>
<tr>
<td>15-9</td>
<td>Nipple</td>
<td>Brass, 1/2&quot;-27, 3&quot; Long</td>
</tr>
<tr>
<td>15-8M1</td>
<td>Nipple</td>
<td>Recessed for 1/4&quot; OD Tube</td>
</tr>
<tr>
<td>15-8M2</td>
<td>Nipple</td>
<td>Recessed for 5/16&quot; OD Tube</td>
</tr>
<tr>
<td>15-8M3</td>
<td>Nipple</td>
<td>Recessed for 3/8&quot; OD Tube</td>
</tr>
</tbody>
</table>

### Regulator Nuts & Nipples, Brass & Stainless Steel

**Pressures to 3000 PSIG (20,700 kPa)**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA - 326 for Nitrous Oxide:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13-2</td>
<td>Nut</td>
<td>Brass, .830&quot;-14 NGO, RH Female</td>
</tr>
<tr>
<td>13-3</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>13-3CV</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long w/Check V</td>
</tr>
<tr>
<td>613-2</td>
<td>Nut</td>
<td>Brass, Hand-Tight, RH Female</td>
</tr>
<tr>
<td>613-2P</td>
<td>Nut</td>
<td>Plastic Grip, Hand-Tight, RH Female</td>
</tr>
<tr>
<td>613-5</td>
<td>Nipple</td>
<td>Hand-Tight, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>613-KPT</td>
<td>Tip</td>
<td>Soft Tip, Replacement</td>
</tr>
<tr>
<td>SS-13-2</td>
<td>Nut</td>
<td>St. Steel, .830&quot;-14 NGO, RH Female</td>
</tr>
<tr>
<td>SS-13-3</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>CGA - 330 for Non-Corrosive Gases (Brass) or Corrosive Gases (Stainless Steel):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0334</td>
<td>Nut</td>
<td>Brass, .830&quot;-14 NGO, LH Female</td>
</tr>
<tr>
<td>0333</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2&quot; Long</td>
</tr>
<tr>
<td>333-A</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>SS-334</td>
<td>Nut</td>
<td>St. Steel, .830&quot;-14 NGO, LH Female</td>
</tr>
<tr>
<td>SS-333</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 2&quot; Long</td>
</tr>
<tr>
<td>0335</td>
<td>Washer</td>
<td>Teflon</td>
</tr>
<tr>
<td>0336</td>
<td>Washer</td>
<td>Nylon, Snap-In</td>
</tr>
<tr>
<td>CGA - 346 for Air:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14-2</td>
<td>Nut</td>
<td>Brass, .830&quot;-14 NGO, RH Female</td>
</tr>
<tr>
<td>14-3</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>14-3CV</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long w/Check V</td>
</tr>
<tr>
<td>614-2</td>
<td>Nut</td>
<td>Long Brass, Hand-Tight, RH Female</td>
</tr>
<tr>
<td>614-2P</td>
<td>Nut</td>
<td>Plastic Grip, Hand-Tight, RH Female</td>
</tr>
<tr>
<td>614-5</td>
<td>Nipple</td>
<td>Hand-Tight, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>614-KPT</td>
<td>Tip</td>
<td>Soft Tip Replacement</td>
</tr>
<tr>
<td>SS-14-2</td>
<td>Nut</td>
<td>St. Steel, .830&quot;-14 NGO, RH Female</td>
</tr>
<tr>
<td>SS-14-3</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
</tbody>
</table>
# Regulator Inlet Nuts & Nipples

## Regulator Nuts & Nipples, Brass & Stainless Steel

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA - 510 for POL Acetylene:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15-2</td>
<td>Nut</td>
<td>Brass, .880&quot;-14 NGO, LH Male</td>
</tr>
<tr>
<td>15-3</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 3&quot; Long</td>
</tr>
<tr>
<td>15-4</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 3-1/2&quot; Long</td>
</tr>
<tr>
<td>15-5</td>
<td>Nipple</td>
<td>Brass, 1/2&quot;-27, 4&quot; Long</td>
</tr>
<tr>
<td>15-8</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>15-11</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 4-1/4&quot; Long</td>
</tr>
<tr>
<td>15-8M1</td>
<td>Nipple</td>
<td>Recessed for 1/4&quot; OD Tube</td>
</tr>
<tr>
<td>15-8M2</td>
<td>Nipple</td>
<td>Recessed for 5/16&quot; OD Tube</td>
</tr>
<tr>
<td>15-8M3</td>
<td>Nipple</td>
<td>Recessed for 3/8&quot; OD Tube</td>
</tr>
<tr>
<td>615-2</td>
<td>Nut</td>
<td>Brass, Hand-Tight, LH Male</td>
</tr>
<tr>
<td>615-2P</td>
<td>Nut</td>
<td>Plastic Grip, Hand-Tight, LH Male</td>
</tr>
<tr>
<td>615-3</td>
<td>Nipple</td>
<td>Hand-Tight, 1/4&quot; NPT, 3-1/2 Long, w/O-Ring</td>
</tr>
<tr>
<td>615-8M1T</td>
<td>Nipple</td>
<td>Hand-Tight, Recessed for 1/4&quot; Tube w/Soft Tip</td>
</tr>
<tr>
<td>615-0</td>
<td>O-Ring</td>
<td>Replacement O-Ring</td>
</tr>
<tr>
<td>615-PT</td>
<td>Tip</td>
<td>Soft Tip Replacement</td>
</tr>
<tr>
<td>SS-15-2</td>
<td>Nut</td>
<td>St. Steel, .880&quot;-14 NGO, LH Male</td>
</tr>
<tr>
<td>SS-15-3</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 3&quot; Long</td>
</tr>
<tr>
<td>SS-15-3CV</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 3&quot; Long w/CV</td>
</tr>
<tr>
<td>SS-15-8M1</td>
<td>Nipple</td>
<td>Recessed for 1/4&quot; OD Tube</td>
</tr>
<tr>
<td>CGA - 520 for &quot;B&quot; Tank - Acetylene:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300-2</td>
<td>Nut</td>
<td>Brass, .899&quot;-18 NGO, RH Female</td>
</tr>
<tr>
<td>300-3</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 1-3/4&quot; Long</td>
</tr>
</tbody>
</table>

## Regulator Nuts & Nipples, Brass & Stainless Steel

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA - 540 for Oxygen:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0062</td>
<td>Nut</td>
<td>Brass, .908&quot;-14 NGO, RH Female</td>
</tr>
<tr>
<td>63-CV</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2' Long w/CV</td>
</tr>
<tr>
<td>0063</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/6&quot; Long</td>
</tr>
<tr>
<td>0066</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>0069</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 3&quot; Long</td>
</tr>
<tr>
<td>0067</td>
<td>Nipple</td>
<td>Brass, 1/2'-27, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>63-M1</td>
<td>Nipple</td>
<td>Recessed for 1/4&quot; OD Tube</td>
</tr>
<tr>
<td>63-M2</td>
<td>Nipple</td>
<td>Recessed for 5/16&quot; OD Tube</td>
</tr>
<tr>
<td>0662</td>
<td>Nut</td>
<td>Brass, Hand-Tight, RH Female</td>
</tr>
<tr>
<td>662P</td>
<td>Nut</td>
<td>Plastic Grip, Hand-Tight, RH Female</td>
</tr>
<tr>
<td>0663</td>
<td>Nipple</td>
<td>Hand-Tight, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>663-KPT</td>
<td>Tip</td>
<td>Soft Tip Replacement</td>
</tr>
<tr>
<td>SS-62</td>
<td>Nut</td>
<td>St. Steel, .908&quot;-14 NGO, RH Female</td>
</tr>
<tr>
<td>SS-63</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>CGA - 555 for Butane, Propane (Liquid Withdrawal):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0072</td>
<td>Nut</td>
<td>Brass, .908&quot;-14 NGO, LH Female</td>
</tr>
<tr>
<td>0073</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/6&quot; Long</td>
</tr>
<tr>
<td>0076</td>
<td>Nipple</td>
<td>Brass, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>0672</td>
<td>Nut</td>
<td>Brass, Hand-Tight, LH Female</td>
</tr>
<tr>
<td>672-P</td>
<td>Nut</td>
<td>Plastic Grip, Hand-Tight, LH Female</td>
</tr>
<tr>
<td>0673</td>
<td>Nipple</td>
<td>Hand-Tight, 1/4&quot; NPT, 2-1/2&quot; Long</td>
</tr>
<tr>
<td>673-KPT</td>
<td>Tip</td>
<td>Soft Tip Replacement</td>
</tr>
<tr>
<td>CGA - 577 for Oxygen:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>577-2</td>
<td>Nut</td>
<td>Brass, .965&quot;-14 NGO, RH Female</td>
</tr>
<tr>
<td>577-4SF</td>
<td>Nipple</td>
<td>Brass w/Filter, 1/4&quot; NPT, 3&quot; Long</td>
</tr>
</tbody>
</table>
## Regulator Nuts & Nipples, Brass & Stainless Steel

**Pressures to 3000 PSIG (20,700 kPa)**

### CGA - 580 for Argon, Helium & Nitrogen:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>0092</td>
<td>Nut, .960'-14 NGO, RH Male</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-3</td>
<td>Nipple, 1/4' NPT, 3' Long</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-4</td>
<td>Nipple, 1/4' NPT, 3-1/2' Long</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-8</td>
<td>Nipple, 1/4' NPT, 2-1/2' Long</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-BCV</td>
<td>Nipple, 1/4' NPT, 2-1/2' Long w/CV</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-11</td>
<td>Nipple, 1/4' NPT, 4-1/2' Long</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-9</td>
<td>Nipple, 1/2'-27, 3' Long</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-5</td>
<td>Nipple, 1/2'-27, 4' Long</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-8M1</td>
<td>Nipple, Recessed For 1/4' OD Tube</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-8M2</td>
<td>Nipple, Recessed For 5/16' OD Tube</td>
<td>CGA-580</td>
</tr>
<tr>
<td>15-8M3</td>
<td>Nipple, Recessed For 3/8' OD Tube</td>
<td>CGA-580</td>
</tr>
<tr>
<td>0692</td>
<td>Nut, Brass, Hand-Tight, RH Male</td>
<td>CGA-580</td>
</tr>
<tr>
<td>692P</td>
<td>Nut, Plastic Grip, Hand-Tight, RH Male</td>
<td>CGA-580</td>
</tr>
<tr>
<td>615-8M1T</td>
<td>Nipple, Hand-Tight, Recessed for 1/4' Tube w/Soft Tip</td>
<td>CGA-580</td>
</tr>
<tr>
<td>615-0</td>
<td>O-Ring, Replacement O-Ring</td>
<td>CGA-580</td>
</tr>
<tr>
<td>615-PT</td>
<td>Tip, Soft Tip Replacement</td>
<td>CGA-580</td>
</tr>
<tr>
<td>SS-92</td>
<td>Nut, St. Steel, .960'-14 NGO, RH Male</td>
<td>CGA-580</td>
</tr>
<tr>
<td>SS-15-3</td>
<td>Nipple, St. Steel, 1/4' NPT, 3' Long</td>
<td>CGA-580</td>
</tr>
<tr>
<td>SS-15-3CV</td>
<td>Nipple, St. Steel, 1/4' NPT, 3' Long w/CV</td>
<td>CGA-580</td>
</tr>
<tr>
<td>SS-15-8M1</td>
<td>Nipple, Recessed For 1/4' OD Tube</td>
<td>CGA-580</td>
</tr>
</tbody>
</table>

### CGA - 90 for Industrial Air:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>0093</td>
<td>Nut, .960'-14 NGO, LH Male</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-3</td>
<td>Nipple, 1/4' NPT, 3' Long</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-4</td>
<td>Nipple, 1/4' NPT, 3-1/2' Long</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-8</td>
<td>Nipple, 1/4' NPT, 2-1/2' Long</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-BCV</td>
<td>Nipple, 1/4' NPT, 2-1/2' Long w/CV</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-9</td>
<td>Nipple, 1/2'-27, 3' Long</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-5</td>
<td>Nipple, 1/2'-27, 4' Long</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-11</td>
<td>Nipple, 1/4' NPT, 4-1/2' Long</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-8M1</td>
<td>Nipple, Recessed For 1/4' OD Tube</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-8M2</td>
<td>Nipple, Recessed For 5/16' OD Tube</td>
<td>CGA-590</td>
</tr>
<tr>
<td>15-8M3</td>
<td>Nipple, Recessed For 3/8' OD Tube</td>
<td>CGA-590</td>
</tr>
<tr>
<td>0693</td>
<td>Nut, Brass, Hand-Tight, LH Male</td>
<td>CGA-590</td>
</tr>
<tr>
<td>693P</td>
<td>Nut, Plastic Grip, Hand-Tight, LH Male</td>
<td>CGA-590</td>
</tr>
<tr>
<td>615-3</td>
<td>Nipple, Hand-Tight, 1/4' NPT, 3-1/2' Long, w/O-Ring</td>
<td>CGA-590</td>
</tr>
<tr>
<td>615-3T</td>
<td>Nipple, Hand-Tight, 1/4' NPT, 3' Long, w/Soft Tip</td>
<td>CGA-590</td>
</tr>
<tr>
<td>615-0</td>
<td>O-Ring, Replacement O-Ring</td>
<td>CGA-590</td>
</tr>
<tr>
<td>615-PT</td>
<td>Tip, Soft Tip Replacement</td>
<td>CGA-590</td>
</tr>
<tr>
<td>SS-93</td>
<td>Nut, St. Steel, .960'-14 NGO, LH Male</td>
<td>CGA-590</td>
</tr>
<tr>
<td>SS-15-3</td>
<td>Nipple, St. Steel, 1/4' NPT, 3' Long</td>
<td>CGA-590</td>
</tr>
<tr>
<td>SS-15-3CV</td>
<td>Nipple, St. Steel, 1/4' NPT, 3' Long w/CV</td>
<td>CGA-590</td>
</tr>
<tr>
<td>SS-15-8M1</td>
<td>Nipple, Recessed For 1/4' OD Tube</td>
<td>CGA-590</td>
</tr>
</tbody>
</table>

### CGA - 660 for Refrigerant Gases:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>0604</td>
<td>Nut, Brass, 1.035'-14 NGO, RH Female</td>
<td>CGA-660</td>
</tr>
<tr>
<td>0603</td>
<td>Nipple, 1/4' NPT, 1-3/4' Long</td>
<td>CGA-660</td>
</tr>
<tr>
<td>603-A</td>
<td>Nipple, 1/4' NPT, 2-1/4' Long</td>
<td>CGA-660</td>
</tr>
<tr>
<td>SS-603A</td>
<td>Nipple, St. Steel, 1/4' NPT, 2-1/4' Long</td>
<td>CGA-660</td>
</tr>
<tr>
<td>SS-604</td>
<td>Nut, St. Steel, 1.035'-14 NGO, RH Female</td>
<td>CGA-660</td>
</tr>
<tr>
<td>0665</td>
<td>Washer, Teflon</td>
<td>CGA-660</td>
</tr>
</tbody>
</table>
Regulator Inlet Nuts & Nipples

Regulator Nuts & Nipples, Stainless Steel
Pressures to 500 PSIG (3400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-704</td>
<td>Nut</td>
<td>St. Steel, 1/035&quot;-14 NGO, LH Female</td>
<td>CGA-670</td>
</tr>
<tr>
<td>SS-703A</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 2-1/2&quot; Long</td>
<td>CGA-670</td>
</tr>
</tbody>
</table>

Regulator Nuts & Nipples, Stainless Steel
Pressures to 7500 PSIG (41,300 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-60-2</td>
<td>Nut</td>
<td>St. Steel, 1/035&quot;-14 NGO, LH Female</td>
<td>CGA-677</td>
</tr>
<tr>
<td>SS-60-3</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 2-1/2&quot; Long</td>
<td>CGA-677</td>
</tr>
<tr>
<td>SS-60-4</td>
<td>Nipple</td>
<td>St. Steel, 3/8&quot; NPT, 3&quot; Long</td>
<td>CGA-677</td>
</tr>
<tr>
<td>SS-60M1</td>
<td>Nipple</td>
<td>Recessed For 1/4&quot; OD Tube</td>
<td>CGA-677</td>
</tr>
</tbody>
</table>

Regulator Nuts & Nipples, Brass
Pressures 3000 PSIG (20,700 kPa) to 5500 PSIG (37,950 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-60-2</td>
<td>Nut</td>
<td>St. Steel, 1/035&quot;-14 NGO, LH Female</td>
<td>CGA-677</td>
</tr>
<tr>
<td>SS-60-3</td>
<td>Nipple</td>
<td>St. Steel, 1/4&quot; NPT, 2-1/2&quot; Long</td>
<td>CGA-677</td>
</tr>
<tr>
<td>SS-60-4</td>
<td>Nipple</td>
<td>St. Steel, 3/8&quot; NPT, 3&quot; Long</td>
<td>CGA-677</td>
</tr>
<tr>
<td>SS-60M1</td>
<td>Nipple</td>
<td>Recessed For 1/4&quot; OD Tube</td>
<td>CGA-677</td>
</tr>
</tbody>
</table>

Regulator Nuts & Nipples, Brass
Pressures 4000 PSIG (27,600 kPa) to 5500 PSIG (37,950 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-680-2</td>
<td>Nut</td>
<td>Brass, 1.040&quot;-14 NGO RH Male</td>
<td>CGA-680</td>
</tr>
<tr>
<td>SS-680-3SF</td>
<td>Nipple</td>
<td>Brass w/Filter, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-680</td>
</tr>
<tr>
<td>SS-680-4SF</td>
<td>Nipple</td>
<td>Brass w/Filter, 1/4&quot; NPT, 3-1/2&quot; Long</td>
<td>CGA-680</td>
</tr>
<tr>
<td>SS-695-2</td>
<td>Nut</td>
<td>Brass, 1.040&quot;-14 NGO LH Male</td>
<td>CGA-695</td>
</tr>
<tr>
<td>SS-695-3SF</td>
<td>Nipple</td>
<td>Brass w/Filter, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-695</td>
</tr>
<tr>
<td>SS-695-4SF</td>
<td>Nipple</td>
<td>Brass w/Filter, 1/4&quot; NPT, 3-1/2&quot; Long</td>
<td>CGA-695</td>
</tr>
<tr>
<td>SS-6695</td>
<td>Nut</td>
<td>Hand-Tight (Use With 680-4SF Nipple)</td>
<td>CGA-695</td>
</tr>
</tbody>
</table>

Regulator Nuts & Nipples, Brass
Pressures 5500 PSIG (37,950 kPa) to 7500 PSIG (51,750 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-680-2</td>
<td>Nut</td>
<td>Brass, 1.120&quot;-14 NGO, RH Female</td>
<td>CGA-701</td>
</tr>
<tr>
<td>SS-680-3SF</td>
<td>Nipple</td>
<td>Brass w/Filter, 1/4&quot; NPT, 3&quot; Long</td>
<td>CGA-701</td>
</tr>
</tbody>
</table>

Regulator Nuts & Nipples, Stainless Steel
Pressures to 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS-705</td>
<td>Nut</td>
<td>St. Steel, 1/035&quot;-14 UNS-2A, RH Female</td>
<td>CGA-705</td>
</tr>
<tr>
<td>SS-705-3</td>
<td>Nipple</td>
<td>1/4&quot; NPT, 2-1/2&quot; Long</td>
<td>CGA-705</td>
</tr>
<tr>
<td>SS-705W</td>
<td>Washer</td>
<td>Teflon</td>
<td>CGA-705</td>
</tr>
</tbody>
</table>
**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV-A9</td>
<td>Oxygen RH, A-Size Male to A-Size Female Nut, to 125 PSIG (800 kPa)</td>
<td>CGA-020</td>
</tr>
<tr>
<td>CV-A10</td>
<td>Fuel Gas LH, A-Size Male to A-Size Female Nut, to 50 PSIG (345 kPa)</td>
<td>CGA-021</td>
</tr>
<tr>
<td>WE-63</td>
<td>Torch Style - Set CV-A9 &amp; CV-A10</td>
<td>–</td>
</tr>
</tbody>
</table>

---

**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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV-7R</td>
<td>Oxygen RH, B-Size Male to B-Size Female Nut, to 125 PSIG (800 kPa)</td>
<td>CGA-022</td>
</tr>
<tr>
<td>CV-8L</td>
<td>Fuel Gas LH, B-Size Male to B-Size Female Nut, to 50 PSIG (345 kPa)</td>
<td>CGA-023</td>
</tr>
<tr>
<td>WE-60</td>
<td>Torch Style - Set CV-7R &amp; CV-8L</td>
<td>–</td>
</tr>
</tbody>
</table>

* 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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV-30R</td>
<td>Oxygen RH, B-Size Female Nut to B-Size Male, to 125 PSIG (800 kPa)</td>
<td>CGA-022</td>
</tr>
<tr>
<td>CV-31L</td>
<td>Fuel Gas LH, B-Size Female Nut to B-Size Male, to 50 PSIG (345 kPa)</td>
<td>CGA-023</td>
</tr>
<tr>
<td>WE-61*</td>
<td>Regulator Adaptor - Set CV-30R &amp; CV-31L</td>
<td>–</td>
</tr>
</tbody>
</table>

* Sold in retail clamshell packaging

---

**Check Valves**

- **Inline NPT Check Valves, Heavy Duty**
  - CV-4M 1/4” NPT Male to Male Brass 3000
  - CV-6M 3/8” NPT Male to 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

- **Check Valve Adaptors, same as CGA Both Ends**
  - CV-346 Air RH, Female CGA-346
  - CV-540 Oxygen RH, Female CGA-540

- **1/4” NPT Inline Check Valves, to 200 PSI (1400 kPa)**
  - CV-4 1/4” NPT Male to 1/4” NPT Male
  - CV-5 1/4” NPT 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

### Quick Connect Sets

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDB10*</td>
<td>Torch-to-Hose Set w/Check Valves</td>
<td>QDB811–Fuel Gas QDB812–Oxygen/Inert</td>
</tr>
<tr>
<td>QDB20*</td>
<td>Hose-to-Hose Set w/Check Valves</td>
<td>QDB821–Fuel Gas QDB822–Oxygen/Inert</td>
</tr>
<tr>
<td>QDB30*</td>
<td>Regulator-to-Hose w/Check Valves</td>
<td>QDB831–Fuel Gas QDB832–Oxygen</td>
</tr>
</tbody>
</table>

### Quick Connect Individual Units

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torch-to-Hose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QDB11*</td>
<td>Fuel Gas w/ Check Valve</td>
<td>QDB801–Male Plug QDB802–Female Socket</td>
</tr>
<tr>
<td>QDB12*</td>
<td>Oxygen/Inert Gas w/Check Valve</td>
<td>QDB810–Male Plug QDB811–Female Socket</td>
</tr>
<tr>
<td>Hose-to-Hose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QDB21*</td>
<td>Fuel Gas w/ Check Valve</td>
<td>QDB820–Male Plug QDB821–Female Socket</td>
</tr>
<tr>
<td>QDB22*</td>
<td>Oxygen/Inert Gas w/Check Valve</td>
<td>QDB830–Male Plug QDB831–Female Socket</td>
</tr>
<tr>
<td>Regulator-to-Hose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>QDB31*</td>
<td>Fuel Gas w/Check Valve</td>
<td>QDB840–Male Plug QDB841–Female Socket</td>
</tr>
<tr>
<td>QDB32*</td>
<td>Oxygen w/Check Valve</td>
<td>QDB850–Male Plug QDB851–Female Socket</td>
</tr>
<tr>
<td>QDB33*</td>
<td>Inert Gas–Regulator-to-Hose</td>
<td>QDB860–Male Plug QDB861–Female Socket</td>
</tr>
<tr>
<td>QDB34*</td>
<td>Inert Gas–Hose-to-Machine</td>
<td>QDB870–Male Plug QDB871–Female Socket</td>
</tr>
</tbody>
</table>

* Sold in retail clamshell packaging

Flashback Arrestors

B-Size, 9/16” - 18

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA-10</td>
<td>Torch Style</td>
</tr>
<tr>
<td>FA-30</td>
<td>Regulator Adaptor Style</td>
</tr>
<tr>
<td>FAU-10</td>
<td>Torch Style</td>
</tr>
<tr>
<td>FAU-30</td>
<td>Regulator Adaptor Style</td>
</tr>
</tbody>
</table>

Flashback Arrestor Components

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA-100P</td>
<td>Oxygen, Torch Style</td>
</tr>
<tr>
<td>FA-200P</td>
<td>Fuel Gas, Torch Style</td>
</tr>
<tr>
<td>FA-130P</td>
<td>Oxygen, Regulator Adaptor Style</td>
</tr>
<tr>
<td>FA-230P</td>
<td>Fuel Gas, Regulator Adaptor Style</td>
</tr>
</tbody>
</table>

Manifold Pigtail with Flash Arrestors

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
<th>W/CV</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP-510</td>
<td>FP-510PCV</td>
<td>Horizontal, 24” length</td>
<td>CGA 510, POL Acetylene</td>
<td></td>
</tr>
<tr>
<td>FP-510P</td>
<td>FP-510PCV</td>
<td>Horizontal, 18” length</td>
<td>CGA 510, POL Acetylene</td>
<td></td>
</tr>
</tbody>
</table>

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.
Caliber™ Nickel Plated Flashback Arrestors
- Nickel plated brass for greater surface hardness and exceptional corrosion resistance.
- Soft seat Buno 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.

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.

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.

Flash Arrestors–Bodies & CGA Adaptor Assemblies
- Part No. FA-2CV
- Flow
- CGA-510 Nut & Check Valve Nipple
- CGA-510 Cylinder Valve
- Part No. FA-510CV

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAU10</td>
<td>Torch style</td>
</tr>
<tr>
<td>FAU30</td>
<td>Regulator style</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAU10</td>
<td>Torch to hose set w/ check valves (Oxy/Fuel Gas)</td>
</tr>
<tr>
<td>FAU20</td>
<td>Set hose to torch</td>
</tr>
<tr>
<td>FAU30</td>
<td>Regulator to hose (Oxy/Fuel Gas)</td>
</tr>
<tr>
<td>FAU33</td>
<td>Inert regulator to hose</td>
</tr>
<tr>
<td>FAU34</td>
<td>Inert machine to hose</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAU10</td>
<td>Torch</td>
</tr>
<tr>
<td>FAU30</td>
<td>Regulator</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2</td>
<td>1/4&quot; NPT Female x 1/4&quot; NPT Female</td>
</tr>
<tr>
<td>FA-2CV</td>
<td>with Female Inlet Nut Check Valve</td>
</tr>
<tr>
<td>FA-3</td>
<td>1/4&quot; NPT Female x 1/4&quot; NPT Male</td>
</tr>
<tr>
<td>FA-3CV</td>
<td>with Female Inlet Nut Check Valve</td>
</tr>
<tr>
<td>FA-300</td>
<td>CGA-300 Commercial Acetylene</td>
</tr>
<tr>
<td>FA-300CV</td>
<td>CGA-300 Commercial Acetylene w/Inlet Check Valve</td>
</tr>
<tr>
<td>FA-510</td>
<td>CGA-510 POL Acetylene</td>
</tr>
<tr>
<td>FA-510CV</td>
<td>CGA-510 POL Acetylene w/Inlet Check Valve</td>
</tr>
</tbody>
</table>
Pressure Gauges

Regulator Gauges & Gauge Crystals

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gauge Type</th>
<th>Part No.</th>
<th>Gauge Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-2-30RLW</td>
<td>30 PSIG Red Line</td>
<td>G-25-30RLW</td>
<td>30 PSIG Red Line</td>
</tr>
<tr>
<td>G-2-30W</td>
<td>30 PSIG</td>
<td>G-25-30W</td>
<td>30 PSIG</td>
</tr>
<tr>
<td>G-2-60W</td>
<td>60 PSIG</td>
<td>G-25-60W</td>
<td>60 PSIG</td>
</tr>
<tr>
<td>G-2-100W</td>
<td>100 PSIG</td>
<td>G-25-100W</td>
<td>100 PSIG</td>
</tr>
<tr>
<td>G-2-200W</td>
<td>200 PSIG</td>
<td>G-25-200W</td>
<td>200 PSIG</td>
</tr>
<tr>
<td>G-2-400W</td>
<td>400 PSIG</td>
<td>G-25-400W</td>
<td>400 PSIG</td>
</tr>
<tr>
<td>G-2-600W</td>
<td>600 PSIG</td>
<td>G-25-600W</td>
<td>600 PSIG</td>
</tr>
<tr>
<td>G-2-1000W</td>
<td>1000 PSIG</td>
<td>G-25-2000W</td>
<td>1000 PSIG</td>
</tr>
<tr>
<td>G-2-4000W</td>
<td>4000 PSIG</td>
<td>G-25-4000W</td>
<td>4000 PSIG</td>
</tr>
<tr>
<td>G-2-CW</td>
<td>Lexan Crystal</td>
<td>G-25-CW</td>
<td>Lexan Crystal</td>
</tr>
</tbody>
</table>

Installation Requires Teflon Tape or Oxygen Safe Compound To Guard Against Leakage

Cylinder Pressure Testing Gauges

2" Brass

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>PSIG Scale</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-204</td>
<td>&quot;MC&quot; Acetylene Tank</td>
<td>400</td>
<td>CGA-200</td>
</tr>
<tr>
<td>G-304</td>
<td>Commercial Acetylene</td>
<td>400</td>
<td>CGA-300</td>
</tr>
<tr>
<td>G-304H</td>
<td>Commercial Acetylene with Hand-Tight Nut</td>
<td>400</td>
<td>CGA-300</td>
</tr>
<tr>
<td>G-324</td>
<td>Carbon Dioxide</td>
<td>3000</td>
<td>CGA-320</td>
</tr>
<tr>
<td>G-324H</td>
<td>Carbon Dioxide with Hand-Tight Nut</td>
<td>3000</td>
<td>CGA-320</td>
</tr>
<tr>
<td>G-326</td>
<td>Nitrous Oxide</td>
<td>3000</td>
<td>CGA-326</td>
</tr>
<tr>
<td>G-346</td>
<td>Air</td>
<td>4000</td>
<td>CGA-346</td>
</tr>
<tr>
<td>G-346H</td>
<td>Air with Hand-Tight Nut</td>
<td>4000</td>
<td>CGA-346</td>
</tr>
<tr>
<td>G-354</td>
<td>Hydrogen</td>
<td>3000</td>
<td>CGA-350</td>
</tr>
<tr>
<td>G-354H</td>
<td>Hydrogen with Hand-Tight Nut</td>
<td>3000</td>
<td>CGA-350</td>
</tr>
<tr>
<td>G-514</td>
<td>POL Acetylene, Straight</td>
<td>400</td>
<td>CGA-510</td>
</tr>
<tr>
<td>G-514A</td>
<td>POL Acetylene, 90°</td>
<td>400</td>
<td>CGA-510</td>
</tr>
<tr>
<td>G-514AH</td>
<td>POL Acetylene, 90° with Hand-Tight Nut</td>
<td>400</td>
<td>CGA-510</td>
</tr>
<tr>
<td>G-514H</td>
<td>POL Acetylene with Hand-Tight Nut</td>
<td>400</td>
<td>CGA-510</td>
</tr>
<tr>
<td>G-524</td>
<td>&quot;B&quot; Tank Acetylene</td>
<td>400</td>
<td>CGA-520</td>
</tr>
<tr>
<td>G-544</td>
<td>Oxygen</td>
<td>3000</td>
<td>CGA-540</td>
</tr>
<tr>
<td>G-544A</td>
<td>Oxygen</td>
<td>4000</td>
<td>CGA-540</td>
</tr>
<tr>
<td>G-544H</td>
<td>Oxygen with Hand-Tight Nut</td>
<td>3000</td>
<td>CGA-540</td>
</tr>
<tr>
<td>G-544AH</td>
<td>Oxygen with Hand-Tight Nut</td>
<td>4000</td>
<td>CGA-540</td>
</tr>
<tr>
<td>G-584</td>
<td>Nitrogen, Argon, Helium</td>
<td>4000</td>
<td>CGA-580</td>
</tr>
<tr>
<td>G-584H</td>
<td>Nitrogen, Argon, Helium, Hand-Tight Nut</td>
<td>4000</td>
<td>CGA-580</td>
</tr>
<tr>
<td>G-594</td>
<td>Industrial Air</td>
<td>4000</td>
<td>CGA-590</td>
</tr>
</tbody>
</table>
**Manifold Accessories**

### Fuel Gas Equipment

<table>
<thead>
<tr>
<th>Part No.</th>
<th>OD &amp; Wall</th>
<th>Length</th>
<th>Style</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT-40</td>
<td>1/4” x .065</td>
<td>50 Feet</td>
<td>Coil</td>
<td>Copper, Annealed</td>
</tr>
<tr>
<td>CT-50</td>
<td>5/16” x .065</td>
<td>50 Feet</td>
<td>Coil</td>
<td>Copper, Annealed</td>
</tr>
<tr>
<td>CT-60</td>
<td>3/8” x .065</td>
<td>50 Feet</td>
<td>Coil</td>
<td>Copper, Annealed</td>
</tr>
</tbody>
</table>

### Manifold Tubing

- **Part No.** CT-40, 50 Feet Coil, Material: Copper, Annealed
- **Part No.** CT-50, 50 Feet Coil, Material: Copper, Annealed
- **Part No.** CT-60, 50 Feet Coil, Material: Copper, Annealed

### Manifold Tubing Adaptor Bushings

**Part No. BT-2M2**

### Manifold Pipe & Pipe Fittings, Brass

**Brass Alloy 360**

Pressures to 3000 PSIG (20,700 kPa)

### Nominal Pipe Lengths

**Brass Alloy 360**

Pressures to 3000 PSIG (20,700 kPa)

### Pipe Tees, Female

Pressures to 3000 PSI (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>OD &amp; Wall</th>
<th>Length</th>
<th>Style</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHF-3-1</td>
<td>1/2&quot; NPT</td>
<td>1-1/2&quot;</td>
<td>1/2&quot; NPT</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>WHF-3-2</td>
<td>1/2&quot; NPT</td>
<td>2&quot;</td>
<td>1/2&quot; NPT</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>WHF-3-3</td>
<td>1/2&quot; NPT</td>
<td>4&quot;</td>
<td>1/2&quot; NPT</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>WHF-3-4</td>
<td>1/2&quot; NPT</td>
<td>6&quot;</td>
<td>1/2&quot; NPT</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>WHF-3-5</td>
<td>1/2&quot; NPT</td>
<td>8-1/2&quot;</td>
<td>1/2&quot; NPT</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>WHF-3-6</td>
<td>1/2&quot; NPT</td>
<td>11-1/2&quot;</td>
<td>1/2&quot; NPT</td>
<td>3/4&quot; NPT</td>
</tr>
</tbody>
</table>

Cleaned for Oxygen Service—Suitable For Acetylene Service

### Pipe Nipple Length

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHF-3-23</td>
<td>2'</td>
<td>1/2&quot; Nom</td>
</tr>
<tr>
<td>WHF-3-4</td>
<td>4'</td>
<td>1/2&quot; Nom</td>
</tr>
</tbody>
</table>

*Cleaned for Oxygen*

### Threaded Pipe Nipples

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHF-3-20</td>
<td>6'</td>
<td>1/2&quot; Nom</td>
</tr>
<tr>
<td>WHF-3-6</td>
<td>8-1/2&quot;</td>
<td>1/2&quot; Nom</td>
</tr>
</tbody>
</table>

*Not Cleaned for Oxygen*

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Length</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHF-3-120</td>
<td>6'</td>
<td>1/2&quot; Nom</td>
</tr>
<tr>
<td>WHF-3-18</td>
<td>12'</td>
<td>1/2&quot; Nom</td>
</tr>
</tbody>
</table>

Note: 12 Foot Lengths Must Ship Via Common Carrier

---

*.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)

- 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

\[.843"-.847" = 1/2" \text{ Pipe Slip} \]
\[1.053"-1.057" = 3/4" \text{ Pipe Slip} \]

**Pipe Crosses, Female**
Pressures to 3000 PSIG (20,700 kPa)

- 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

\[.843"-.847" = 1/2" \text{ Pipe Slip} \]

**Female NPT Outlet Adaptors for Manifold Pipeline, Brass & Stainless Steel**

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-1</td>
<td>CGA-300</td>
<td>Commercial Acetylene, to 500 PSIG: RH Male .825&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>CO-2-1</td>
<td>CGA-320</td>
<td>Carbon Dioxide to 3000 PSIG: RH Male .825&quot;-14 NGO, to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>1321-1</td>
<td>CGA-326</td>
<td>Nitrous Oxide to 3000 PSIG: RH Male .825&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>1341-1</td>
<td>CGA-346</td>
<td>Air to 3000 PSIG: RH Male .825&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>SS-1341-1</td>
<td>CGA-346</td>
<td>Air to 3000 PSIG: RH Male .825&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>St. Steel</td>
</tr>
<tr>
<td>347-1</td>
<td>CGA-347</td>
<td>Air to 5000 PSIG: RH Male .825&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>SS-347-1</td>
<td>CGA-347</td>
<td>Air from 3,001 to 5500 PSIG: RH Male .825&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>St. Steel</td>
</tr>
<tr>
<td>800-1</td>
<td>CGA-350</td>
<td>Hydrogen, Natural Gas to 3000 PSIG: LH Male .825&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>500-1</td>
<td>CGA-500</td>
<td>Medical Mixtures to 3000 PSIG: RH Female .885&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>16-1</td>
<td>CGA-510</td>
<td>POL Acetylene, Propane to 500 PSIG: LH Female .885&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>300-1</td>
<td>CGA-510</td>
<td>POL Acetylene, Propane to 500 PSIG: 90° LH Female Nut .885&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>415-1</td>
<td>CGA-540</td>
<td>Oxygen to 3000 PSIG: RH Male .903&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>SS-415-1</td>
<td>CGA-540</td>
<td>Oxygen to 3000 PSIG: RH Male .903&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>St. Steel</td>
</tr>
<tr>
<td>414-1</td>
<td>CGA-555</td>
<td>Butane, Propane Liquid 3000 PSIG: LH Male .903&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>416-1</td>
<td>CGA-580</td>
<td>Argon, Helium, Nitrogen to 3000 PSIG: RH Female .965&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>417-1</td>
<td>CGA-590</td>
<td>Industrial Air to 3000 PSIG: LH Female .965&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>660-1</td>
<td>CGA-660</td>
<td>Refrigerant Gases to 3000 PSIG: RH Male 1.030&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>Brass</td>
</tr>
<tr>
<td>SS-660-1</td>
<td>CGA-660</td>
<td>Refrigerant Gases to 3000 PSIG: RH Male 1.030&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>St. Steel</td>
</tr>
<tr>
<td>SS-677-1</td>
<td>CGA-677</td>
<td>Argon, Helium, Nitrogen from 5,501 to 7500 PSIG: LH Male 1.030&quot;-14 NGO to 1/4&quot; NPT Female</td>
<td>St. Steel</td>
</tr>
</tbody>
</table>
## Male NPT Outlet Adaptors for Manifold Pipeline, Brass & Stainless Steel

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nitrous Oxide to 3000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-1320</td>
<td>CGA-326</td>
<td>.825&quot;-14 NGO, RH Male to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-1321</td>
<td>CGA-326</td>
<td>.825&quot;-14 NGO, RH Male to 3/8&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-1322</td>
<td>CGA-326</td>
<td>.825&quot;-14 NGO, RH Male to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>WMS-1-59</td>
<td>CGA-326</td>
<td>Check Valve Outlet to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td><strong>Air to 3000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-1340</td>
<td>CGA-346</td>
<td>.825&quot;-14 NGO, RH Male to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-1342</td>
<td>CGA-346</td>
<td>.825&quot;-14 NGO, RH Male to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>WMS-1-62</td>
<td>CGA-346</td>
<td>Check Valve Outlet to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-1340SS</td>
<td>CGA-346</td>
<td>.825&quot;-14 NGO, RH Male to 1/4&quot; NPT</td>
<td>St. Steel</td>
</tr>
<tr>
<td><strong>Air to 5500 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-348</td>
<td>CGA-347</td>
<td>.825&quot;-14 NGO, RH Male to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td><strong>Hydrogen, Natural Gas, to 3000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-30</td>
<td>CGA-350</td>
<td>.825&quot;-14 NGO, LH Male to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-32</td>
<td>CGA-350</td>
<td>.825&quot;-14 NGO, LH Male to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-33</td>
<td>CGA-350</td>
<td>.880&quot;-14 NGO, LH Male to 3/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td><strong>Medical Breathing Mix to 3000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-500</td>
<td>CGA-500</td>
<td>.880&quot;-14 NGO, RH Female to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td><strong>Acetylene, Butane, Propane to 500 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-40</td>
<td>CGA-510</td>
<td>.885&quot;-14 NGO, LH Female to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-42</td>
<td>CGA-510</td>
<td>.885&quot;-14 NGO, LH Female to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-43</td>
<td>CGA-510</td>
<td>.885&quot;-14 NGO, LH Female to 3/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td><strong>Oxygen to 3000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-50</td>
<td>CGA-540</td>
<td>.903&quot;-14 NGO, RH Male to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-51</td>
<td>CGA-540</td>
<td>.903&quot;-14 NGO, RH Male to 3/8&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-52</td>
<td>CGA-540</td>
<td>.903&quot;-14 NGO, RH Male to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>WMS-1-53</td>
<td>CGA-540</td>
<td>Check Valve Outlet to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-53</td>
<td>CGA-540</td>
<td>.903&quot;-14 NGO, RH Male to 3/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-50SS</td>
<td>CGA-540</td>
<td>.903&quot;-14 NGO, RH Male to 1/4&quot; NPT</td>
<td>St. Steel</td>
</tr>
<tr>
<td><strong>Butane, Propane (Liq/W) to 3000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-60</td>
<td>CGA-555</td>
<td>.903&quot;-14 NGO, LH Male to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-62</td>
<td>CGA-555</td>
<td>.903&quot;-14 NGO, LH Male to 1/2&quot; NPT</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td><strong>Oxygen 3000 PSIG to 4000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-578</td>
<td>CGA-577</td>
<td>.960&quot;-14 NGO, RH Male to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td><strong>Argon, Helium, Nitrogen, Etc to 3000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-70</td>
<td>CGA-580</td>
<td>.965&quot;-14 NGO, RH Female to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-71</td>
<td>CGA-580</td>
<td>.965&quot;-14 NGO, RH Female to 3/8&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-72</td>
<td>CGA-580</td>
<td>.965&quot;-14 NGO, RH Female to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>WMS-1-54</td>
<td>CGA-580</td>
<td>Check Valve Outlet to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-73</td>
<td>CGA-580</td>
<td>.965&quot;-14 NGO, RH Female to 3/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td><strong>Industrial Air to 3000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-80</td>
<td>CGA-590</td>
<td>.965&quot;-14 NGO, LH Female to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-82</td>
<td>CGA-590</td>
<td>.965&quot;-14 NGO, LH Female to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-83</td>
<td>CGA-590</td>
<td>.965&quot;-14 NGO, LH Female to 3/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td><strong>Refrigerant Gases to 3000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-660SS</td>
<td>CGA-660</td>
<td>1.030&quot;-14 NGO, RH Male to 1/4&quot; NPT</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td><strong>Air, Argon, Helium, Etc to 6000 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-677SS</td>
<td>CGA-677</td>
<td>1.030&quot;-14 NGO, LH Male to 1/4&quot; NPT</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>B-678SS</td>
<td>CGA-677</td>
<td>1.030&quot;-14 NGO, LH Male to 1/2&quot; NPT</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>B-679SS</td>
<td>CGA-677</td>
<td>1.030&quot;-14 NGO, LH Male to 3/4&quot; NPT</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td><strong>Inert Gases to 5500 PSIG:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-682</td>
<td>CGA-680</td>
<td>1.045&quot;-14 NGO, RH Female to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
</tbody>
</table>
## 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)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMS-1-64</td>
<td>CGA-280</td>
<td>.745&quot;-14 NGO, RH Male, Check Valve Outlet to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
</tbody>
</table>

### Commercial Acetylene to 500 PSIG:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-10</td>
<td>CGA-300</td>
<td>.825&quot;-14 NGO, RH Male to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-12</td>
<td>CGA-300</td>
<td>.825&quot;-14 NGO, RH Male to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-13</td>
<td>CGA-300</td>
<td>.825&quot;-14 NGO, RH Male to 3/4&quot; NPT</td>
<td>Brass</td>
</tr>
</tbody>
</table>

### Carbon Dioxide to 3000 PSIG:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-20</td>
<td>CGA-320</td>
<td>.825&quot;-14 NGO, RH Male to 1/4&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-21</td>
<td>CGA-320</td>
<td>.825&quot;-14 NGO, RH Male to 3/8&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-22</td>
<td>CGA-320</td>
<td>.825&quot;-14 NGO, RH Male to 1/2&quot; NPT</td>
<td>Brass</td>
</tr>
<tr>
<td>B-23</td>
<td>CGA-320</td>
<td>.825&quot;-14 NGO, RH Male to 3/4&quot; NPT</td>
<td>Brass</td>
</tr>
</tbody>
</table>

### Part No. B-0 Male NPT Outlet Adaptors for Manifold Pipeline, Brass & Stainless Steel

6000 PSIG (41,300 kPa)

### Manifold Coupler Tees, Brass & Stainless Steel

With and Without Check Valves

<table>
<thead>
<tr>
<th>Part No.</th>
<th>W/CV</th>
<th>Gas Service</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-16</td>
<td>T-16CV</td>
<td>CGA-300</td>
<td>Commercial Acet., RH Female</td>
<td>Brass</td>
</tr>
<tr>
<td>T-15</td>
<td>T-15CV</td>
<td>CGA-510</td>
<td>POL Acetylene, LH Male</td>
<td>Brass</td>
</tr>
</tbody>
</table>

### To 500 PSIG (3400 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-296</td>
<td>CGA-296</td>
<td>Industrial Mix /Oxy., RH Male</td>
<td>Brass</td>
</tr>
<tr>
<td>T-326</td>
<td>CGA-326</td>
<td>Nitrous Oxide, RH Female</td>
<td>Brass</td>
</tr>
<tr>
<td>T-346</td>
<td>T-346CV</td>
<td>CGA-346</td>
<td>Air, RH Female</td>
</tr>
<tr>
<td>T-82</td>
<td>T-82CV</td>
<td>CGA-350</td>
<td>Oxygen, LH Female</td>
</tr>
<tr>
<td>T-62</td>
<td>T-62CV</td>
<td>CGA-540</td>
<td>Hydrogen, LH Female</td>
</tr>
<tr>
<td>T-62SS</td>
<td>CGA-540</td>
<td>Oxygen, RH Female</td>
<td>Brass</td>
</tr>
<tr>
<td>T-72</td>
<td>T-72CV</td>
<td>CGA-555</td>
<td>Propane (Liquid/Water) LH Female</td>
</tr>
<tr>
<td>T-92</td>
<td>T-92CV</td>
<td>CGA-580</td>
<td>Nitrogen, Argon, Helium, RH Male</td>
</tr>
<tr>
<td>T-92SS</td>
<td>CGA-580</td>
<td>Nitrogen, Argon, Helium, RH Male</td>
<td>St. Steel</td>
</tr>
<tr>
<td>T-93</td>
<td>T-93CV</td>
<td>CGA-590</td>
<td>Industrial Air, LH Male</td>
</tr>
</tbody>
</table>

### To 3000 PSIG (20,700 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-577</td>
<td>CGA-577</td>
<td>Oxygen, RH Female</td>
<td>Brass</td>
</tr>
</tbody>
</table>

### To 4000 PSIG (27,600 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-347</td>
<td>CGA-347</td>
<td>Air, RH Female</td>
<td>Brass</td>
</tr>
<tr>
<td>T-347SS</td>
<td>CGA-347</td>
<td>Air, RH Female</td>
<td>St. Steel</td>
</tr>
<tr>
<td>T-680</td>
<td>CGA-680</td>
<td>Inert Gases, RH Male</td>
<td>Brass</td>
</tr>
</tbody>
</table>

### Part No. T-82

### Part No. T-92CV

### Manifold 3-Way Outlet Coupler Tees, Brass

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Gas Service</th>
<th>Description</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>T3-540</td>
<td>CGA-540</td>
<td>RH Male</td>
<td>Oxygen</td>
</tr>
<tr>
<td>T3-580</td>
<td>CGA-580</td>
<td>RH Female</td>
<td>Nitrogen, Argon, Helium</td>
</tr>
</tbody>
</table>
**Manifold 4-Way Outlet Coupler Tees, Brass**

With and Without Check Valves

![Part No. T4-540CV](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>W/CV</th>
<th>Gas Service</th>
<th>Description</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>T4-540</td>
<td>T4-540CV</td>
<td>CGA-540</td>
<td>RH Male</td>
<td>Oxygen</td>
<td></td>
</tr>
<tr>
<td>T4-580</td>
<td>—</td>
<td>CGA-580</td>
<td>RH Female</td>
<td>Nitrogen, Argon, Helium</td>
<td></td>
</tr>
</tbody>
</table>

**Manifold Block Assemblies, Brass**

![Part No. MB-70](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Max PSIG</th>
<th>Gas</th>
<th>Gas Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>MB-346</td>
<td>RH Male Outlets</td>
<td>3000</td>
<td>Air</td>
<td>CGA-346</td>
</tr>
<tr>
<td>MB-40-7</td>
<td>LH Female Outlets</td>
<td>500</td>
<td>POL Acet., Propane</td>
<td>CGA-510</td>
</tr>
<tr>
<td>MB-50</td>
<td>RH Male Outlets</td>
<td>3000</td>
<td>Oxygen</td>
<td>CGA-540</td>
</tr>
<tr>
<td>MB-50CV</td>
<td>With Check Valve Inlet Nipple</td>
<td>3000</td>
<td>Oxygen</td>
<td>CGA-540</td>
</tr>
<tr>
<td>MB-70</td>
<td>RH Female Outlets</td>
<td>3000</td>
<td>Nitrogen, Argon, Helium</td>
<td>CGA-580</td>
</tr>
<tr>
<td>MB-70CV</td>
<td>With Check Valve Inlet Nipple</td>
<td>3000</td>
<td>Nitrogen, Argon, Helium</td>
<td>CGA-580</td>
</tr>
</tbody>
</table>

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

**Manifold Hex Blocks, Brass & Stainless Steel**

![Part No. MB-7](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>MAX PSIG</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot; Block, Six Outlets:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MB-6</td>
<td>1/4&quot; NPT Female Side Outlets</td>
<td>3000</td>
<td>Brass</td>
</tr>
<tr>
<td>MB-6SS</td>
<td>1/4&quot; NPT Female Side Outlets</td>
<td>6000</td>
<td>St. Steel</td>
</tr>
<tr>
<td>2&quot; Block, Seven Outlets:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MB-7</td>
<td>1/4&quot; NPT Female Side/Top Outlets</td>
<td>3000</td>
<td>Brass</td>
</tr>
<tr>
<td>MB-7SS</td>
<td>1/4&quot; NPT Female Side/Top Outlets</td>
<td>6000</td>
<td>St. Steel</td>
</tr>
</tbody>
</table>
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
- **Description**: RH Female Nut & Plug
- **Gas Service**: 0-3000 Hydrogen, Nat. Gas
- **Material**: Brass
- **Working Pressure**: 0-3000
- **Service**: CGA-350

### Two-Piece Assemblies

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Material</th>
<th>Working Pressure</th>
<th>Gas</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>0927</td>
<td>9/16&quot;-18 RH Female Nut &amp; Plug</td>
<td>Brass</td>
<td>0-200</td>
<td>Oxygen</td>
<td>CGA-022</td>
</tr>
<tr>
<td>0928</td>
<td>9/16&quot;-18 LH Female Nut &amp; Plug</td>
<td>Brass</td>
<td>0-200</td>
<td>Acetylene</td>
<td>CGA-023</td>
</tr>
<tr>
<td>C-907</td>
<td>7/8&quot;-14 RH Female Nut &amp; Plug</td>
<td>Brass</td>
<td>0-200</td>
<td>Oxygen</td>
<td>CGA-024</td>
</tr>
<tr>
<td>C-908</td>
<td>7/8&quot;-14 LH Female Nut &amp; Plug</td>
<td>Brass</td>
<td>0-200</td>
<td>Acetylene</td>
<td>CGA-025</td>
</tr>
<tr>
<td>0921</td>
<td>5/8&quot;-18 RH Female Nut (AW-7) &amp; Plug</td>
<td>Brass</td>
<td>0-200</td>
<td>Inert Arc</td>
<td>–</td>
</tr>
<tr>
<td>0922</td>
<td>5/8&quot;-18 RH Male Nut (AW-14A) &amp; Plug</td>
<td>Brass</td>
<td>0-200</td>
<td>Inert Arc</td>
<td>–</td>
</tr>
<tr>
<td>9326</td>
<td>RH Female Nut &amp; Plug</td>
<td>Brass</td>
<td>0-3000</td>
<td>Nitrous Oxide</td>
<td>CGA-326</td>
</tr>
<tr>
<td>9346</td>
<td>RH Female Nut &amp; Plug</td>
<td>Brass</td>
<td>0-3000</td>
<td>Air</td>
<td>CGA-346</td>
</tr>
<tr>
<td>9347</td>
<td>RH Female Nut &amp; Plug</td>
<td>Stainless Steel</td>
<td>0-5500</td>
<td>Air</td>
<td>CGA-347</td>
</tr>
<tr>
<td>0982</td>
<td>LH Female Nut &amp; Plug</td>
<td>Brass</td>
<td>0-3000</td>
<td>Hydrogen, Nat. Gas</td>
<td>CGA-350</td>
</tr>
<tr>
<td>0915</td>
<td>LH Male Nut &amp; Plug</td>
<td>Brass</td>
<td>0-500</td>
<td>POL Acetylene</td>
<td>CGA-510</td>
</tr>
<tr>
<td>0962</td>
<td>RH Female Nut &amp; Plug</td>
<td>Brass</td>
<td>0-3000</td>
<td>Oxygen</td>
<td>CGA-540</td>
</tr>
<tr>
<td>0992</td>
<td>RH Male Nut &amp; Plug</td>
<td>Brass</td>
<td>0-3000</td>
<td>Nitrogen, Argon, Helium</td>
<td>CGA-580</td>
</tr>
</tbody>
</table>

### One-Piece Assemblies

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Gas Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-320</td>
<td>RH Female Nut &amp; Plug</td>
<td>Carbon Dioxide</td>
</tr>
<tr>
<td>CP-326</td>
<td>RH Female Nut &amp; Plug</td>
<td>Nitrous Oxide</td>
</tr>
<tr>
<td>CP-346</td>
<td>RH Female Nut &amp; Plug</td>
<td>Air</td>
</tr>
<tr>
<td>CP-350</td>
<td>LH Female Nut &amp; Plug</td>
<td>Hydrogen, Nat. Gas</td>
</tr>
<tr>
<td>CP-510</td>
<td>LH Male Nut &amp; Plug</td>
<td>POL Acetylene</td>
</tr>
<tr>
<td>CP-520</td>
<td>&quot;B&quot; Tank RH Female Nut &amp; Plug</td>
<td>Acetylene</td>
</tr>
<tr>
<td>CP-540</td>
<td>RH Female Nut &amp; Plug</td>
<td>Oxygen</td>
</tr>
<tr>
<td>CP-580</td>
<td>RH Male Nut &amp; Plug</td>
<td>Nitrogen, Argon, Helium</td>
</tr>
<tr>
<td>CP-590</td>
<td>LH Male Nut &amp; Plug</td>
<td>Industrial Air</td>
</tr>
</tbody>
</table>

### Manifold One-Piece Dust Cap Assemblies

Not Gas-Tight

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Gas</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC-B7</td>
<td>RH Female B-Size</td>
<td>Oxygen</td>
<td>CGA-022</td>
</tr>
<tr>
<td>DC-B8</td>
<td>LH Female B-Size</td>
<td>Acetylene</td>
<td>CGA-023</td>
</tr>
<tr>
<td>DC-C7</td>
<td>RH Female C-Size</td>
<td>Oxygen</td>
<td>CGA-024</td>
</tr>
<tr>
<td>DC-C8</td>
<td>LH Female C-Size</td>
<td>Acetylene</td>
<td>CGA-025</td>
</tr>
<tr>
<td>DC-200</td>
<td>&quot;MC&quot; Tank, RH Female</td>
<td>Acetylene</td>
<td>CGA-200</td>
</tr>
<tr>
<td>DC-300</td>
<td>RH Female</td>
<td>Coml. Acetylene</td>
<td>CGA-300</td>
</tr>
<tr>
<td>DC-320</td>
<td>RH Female</td>
<td>Carbon Dioxide</td>
<td>CGA-320</td>
</tr>
<tr>
<td>DC-346</td>
<td>RH Female</td>
<td>Air</td>
<td>CGA-346</td>
</tr>
<tr>
<td>DC-350</td>
<td>LH Female</td>
<td>Hydrogen</td>
<td>CGA-350</td>
</tr>
<tr>
<td>DC-510</td>
<td>LH Male</td>
<td>POL Acetylene</td>
<td>CGA-510</td>
</tr>
<tr>
<td>DC-540</td>
<td>RH Female</td>
<td>Oxygen</td>
<td>CGA-540</td>
</tr>
<tr>
<td>DC-580</td>
<td>RH Male</td>
<td>Nitrogen, Argon, Helium</td>
<td>CGA-580</td>
</tr>
<tr>
<td>DC-660</td>
<td>RH Female</td>
<td>Mixtures</td>
<td>CGA-660</td>
</tr>
</tbody>
</table>
**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)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF</td>
<td>346N</td>
<td>SS</td>
<td>HTB</td>
<td>X</td>
<td>1/2M</td>
<td>SS</td>
<td>HTB</td>
<td>36</td>
</tr>
</tbody>
</table>

1/4” ID Flexible Teflon-Lined Pigtail
CGA 346 Nut/Nipple Connection
Stainless Steel
Hand-tight with brass tip
1/2” M Outlet Connection
Stainless Steel
Hand-tight with brass tip
36’ long
Spring guard

### Model Options

<table>
<thead>
<tr>
<th>Model</th>
<th>PSIg</th>
<th>kPa</th>
<th>Pigtail</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>3000</td>
<td>20,700</td>
<td>Rigid Copper</td>
</tr>
<tr>
<td>PB</td>
<td>3000</td>
<td>20,700</td>
<td>Rigid Brass</td>
</tr>
<tr>
<td>PS</td>
<td>6000</td>
<td>41,300</td>
<td>Rigid Stainless St.</td>
</tr>
<tr>
<td>PF</td>
<td>3000</td>
<td>20,700</td>
<td>Flexible Teflon-Lined</td>
</tr>
<tr>
<td>PFS</td>
<td>3000</td>
<td>20,700</td>
<td>Flexible Nylon-Lined</td>
</tr>
<tr>
<td>PF6</td>
<td>6000</td>
<td>41,300</td>
<td>Flexible Teflon-Lined</td>
</tr>
</tbody>
</table>

### Tube / Hose

<table>
<thead>
<tr>
<th>Rigid Tube OD</th>
<th>Flex Hose ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>P4</td>
<td>1/4” PF</td>
</tr>
<tr>
<td>P5</td>
<td>1/4” PF</td>
</tr>
<tr>
<td>P6</td>
<td>3/16” PFS</td>
</tr>
<tr>
<td>PB5</td>
<td>3/16” PFS</td>
</tr>
<tr>
<td>PB6</td>
<td>3/8” PFS</td>
</tr>
<tr>
<td>PS3</td>
<td>1/4” PFS</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Metal</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>Blank (None)</td>
</tr>
<tr>
<td>Plated steel</td>
<td>PL</td>
</tr>
<tr>
<td>St. steel</td>
<td>SS</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Metal</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>Blank (None)</td>
</tr>
<tr>
<td>Plated steel</td>
<td>PL</td>
</tr>
<tr>
<td>St. steel</td>
<td>SS</td>
</tr>
</tbody>
</table>

### Optional Features

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>(None)</td>
</tr>
<tr>
<td>CV</td>
<td>Check Valve</td>
</tr>
<tr>
<td>FA</td>
<td>Flash Arrestor*</td>
</tr>
<tr>
<td>HTP</td>
<td>Hand Tight N/N w/ Plastic Grip</td>
</tr>
<tr>
<td>HTB</td>
<td>Hand Tight N/N w/Brass H/T Nut</td>
</tr>
<tr>
<td>GA</td>
<td>Gauge</td>
</tr>
<tr>
<td>PH</td>
<td>Brass Handle</td>
</tr>
<tr>
<td>VA</td>
<td>Shutoff Valve</td>
</tr>
<tr>
<td>EL</td>
<td>90° Elbow</td>
</tr>
</tbody>
</table>

### Bend / Swivel Options

<table>
<thead>
<tr>
<th>Rigid Tube Bends</th>
<th>Flex Hose Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symbol</td>
<td>Feature</td>
</tr>
<tr>
<td>COIL</td>
<td>Standard on 48+’</td>
</tr>
<tr>
<td>UBL</td>
<td>Two 3’ loops</td>
</tr>
<tr>
<td>SGL</td>
<td>6’ loop standard on 27” P, PB</td>
</tr>
<tr>
<td>SPCOL</td>
<td>Special bend, print required</td>
</tr>
<tr>
<td>B</td>
<td>Spring guard</td>
</tr>
<tr>
<td>B1</td>
<td>Spring guard w/ swivel inlet</td>
</tr>
<tr>
<td>B2</td>
<td>Spring guard w/ swivel outlet</td>
</tr>
<tr>
<td>B1-2</td>
<td>Spring guard w/ swivel, both ends</td>
</tr>
</tbody>
</table>

[www.middlesexgases.com](http://www.middlesexgases.com)
Rigid Pigtails

Hand-Tight Rigid Pigtails for Plant or Filling Stations
with Brass Connections
Pressure to 3000 PSIG (20,700 kPa)

Part No. 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. 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-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

Manifold Rigid Pigtails, Copper Tubing
with Brass Connections
Pressures to 3000 PSIG (20,700 kPa)

Part No. 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-CO-3  RH F, Carbon Dioxide  CGA-320
PV-63  RH F, Oxygen  CGA-540
PV-92  RH M, Nitrogen, Argon, Helium  CGA-580
Stainless Steel Rigid Pigtails
Pressures to 6000 PSIG (41,300 kPa)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS-4-36</td>
<td>36' Length, Straight</td>
</tr>
<tr>
<td>PS-4-48</td>
<td>48' Length, Straight</td>
</tr>
<tr>
<td>PS-4-60</td>
<td>60' Length, Straight</td>
</tr>
</tbody>
</table>

Stainless Steel Flexible Pigtails, Brass Connections

- Sub assembly for special configurations
- Available in a variety of lengths
- 100% tested and cleaned for oxygen service

### Type 304 SS Braid
- Optional 360° Swivel Adaptor Resists Kinking
- Galvanized Carbon Steel Optional Spring Guard, Factory Installed

- Coil Grooves Secure Optional Spring Guard

- Teflon® Hose Core
- 3" Minimum Bend Radius

### 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

<table>
<thead>
<tr>
<th>Service</th>
<th>Part No.</th>
<th>Description</th>
<th>Working Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>–</td>
<td>PF-4</td>
<td>1/4&quot; NPT F x 1/4&quot; F with Spring Guard: Add B to End of Part No.</td>
<td>0-3000</td>
</tr>
</tbody>
</table>

### Complete Assemblies (add length in inches to Part No.)

<table>
<thead>
<tr>
<th>Service</th>
<th>Part No.</th>
<th>Description</th>
<th>Working Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA-296</td>
<td>PF-296</td>
<td>Ind. Mixtures, RH Male with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>0-3000</td>
</tr>
<tr>
<td>CGA-300</td>
<td>PF-16</td>
<td>Commercial Acetylene, RH Female with Check Valve, Inlet</td>
<td>0-500</td>
</tr>
<tr>
<td>CGA-320</td>
<td>PF-320</td>
<td>Carbon Dioxide, RH Female with Hand Tight Nut, One End</td>
<td>0-3000</td>
</tr>
<tr>
<td>CGA-326</td>
<td>PF-326</td>
<td>Nitrous Oxide, RH Female with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>0-3000</td>
</tr>
<tr>
<td>CGA-346</td>
<td>PF-346</td>
<td>Air, RH Female with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>0-3000</td>
</tr>
<tr>
<td>CGA-347</td>
<td>PF-347</td>
<td>Air, RH Female with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>0-3000</td>
</tr>
<tr>
<td>CGA-510</td>
<td>PF-15</td>
<td>POL Acetylene, LH Male with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>0-500</td>
</tr>
<tr>
<td>CGA-540</td>
<td>PF-63</td>
<td>Oxygen, RH Female with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>0-3000</td>
</tr>
<tr>
<td>CGA-577</td>
<td>PF-577</td>
<td>Oxygen, RH Female with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>3001-4000</td>
</tr>
<tr>
<td>CGA-580</td>
<td>PF-92</td>
<td>Nitrogen, Argon, RH Male with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>0-3000</td>
</tr>
<tr>
<td>CGA-590</td>
<td>PF-93</td>
<td>Industrial Air, LH Male with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>0-3000</td>
</tr>
<tr>
<td>CGA-680</td>
<td>PF-680</td>
<td>Inert Gases, RH Male with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>3001-5500</td>
</tr>
<tr>
<td>CGA-701</td>
<td>PF-701</td>
<td>Oxygen, RH Female with Check Valve, Inlet Side with Hand Tight Nut, One End</td>
<td>4001-5500</td>
</tr>
</tbody>
</table>
**Flexible Pigtails**

**Thermoplastic Flexible Pigtails, Nylon Lined, Brass Connections**

- Complete Assemblies 100% Tested
  - **PFS-83**
    - Description: Hydrogen, LH F with Check Valve, Inlet Side
    - Max PSIG: 0-3000
    - Gas Service: CGA-350
  - **PFS-83CV**
    - Description: Hydrogen, LH F with Check Valve, Inlet Side
    - Max PSIG: 0-3000
    - Gas Service: CGA-580

**Stainless Steel Flexible Pigtails, Teflon Lined, Stainless Steel Connections**

- Complete Assemblies 100% Tested & Oxygen Cleaned
  - **PF-346SS**
    - Description: Air, RH F
    - Max PSIG: 3000
    - Gas Service: CGA-346
  - **PF-347SS**
    - Description: High Pressure Air, RH F
    - Max PSIG: 5500
    - Gas Service: CGA-347
  - **PF-350SS**
    - Description: Hydrogen, Natural Gas, LHF
    - Max PSIG: 3000
    - Gas Service: CGA-350
  - **PF-540SS**
    - Description: Oxygen, RH F
    - Max PSIG: 3000
    - Gas Service: CGA-540
  - **PF-580SS**
    - Description: Argon, Nitrogen, Etc, RH M
    - Max PSIG: 3000
    - Gas Service: CGA-580
  - **PF-590SS**
    - Description: Air, Nitrogen, Etc, LH M
    - Max PSIG: 3000
    - Gas Service: CGA-590
  - **PF-4SS**
    - Description: 1/4" NPT Female to 1/4" NPT F
    - Max PSIG: 6000
    - Gas Service: --

**Stainless Steel Flexible Pigtails, Brass Connections**

- Pressures to 3000 PSIG (20,700 kPa)

  - No Specials Available

**Stainless Steel Flexible Pigtails, Stainless Steel Corrugated Inner Core, Stainless Steel Connections**

- Pressures to 3000 PSIG (20,700 kPa)

  - 100% Tested & Cleaned for Oxygen • Individually Poly Bagged
  - 3" Minimum Bend Radius
  - 2-3/4" Minimum Bend Radius

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF2-4-12</td>
<td>1/4&quot; NPT Female End Connections</td>
<td>12'</td>
</tr>
<tr>
<td>PF2-4-18</td>
<td>1/4&quot; NPT Female End Connections</td>
<td>18'</td>
</tr>
<tr>
<td>PF2-4-24</td>
<td>1/4&quot; NPT Female End Connections</td>
<td>24'</td>
</tr>
<tr>
<td>PF2-4-36</td>
<td>1/4&quot; NPT Female End Connections</td>
<td>36'</td>
</tr>
<tr>
<td>PF2-4-48</td>
<td>1/4&quot; NPT Female End Connections</td>
<td>48'</td>
</tr>
<tr>
<td>PF2-4-60</td>
<td>1/4&quot; NPT Female End Connections</td>
<td>60'</td>
</tr>
<tr>
<td>PF2-4-72</td>
<td>1/4&quot; NPT Female End Connections</td>
<td>72'</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPF-4-18</td>
<td>1/4&quot; NPT F x 1/4&quot; NPT F</td>
<td>18'</td>
</tr>
<tr>
<td>HPF-4-24</td>
<td>1/4&quot; NPT F x 1/4&quot; NPT F</td>
<td>24'</td>
</tr>
<tr>
<td>HPF-4-48</td>
<td>1/4&quot; NPT F x 1/4&quot; NPT F</td>
<td>48'</td>
</tr>
</tbody>
</table>
### Rigid Pigtails, Brass

**Acetylene & LPG Service**

Pressures to 500 PSIG (3400 kPa)

![Part No. P-15PCV](image)

### Transfer Hose, Cryogenic

![Part No. WMH-2-9](image)

### Brass SAE Flare Tubing Connections

![Part No. F-11](image)
![Part No. F-30](image)
![Part No. F-10](image)
![Part No. F-32](image)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>With CV</th>
<th>Description</th>
<th>Gas Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>F-10</td>
<td>.4375&quot;-20 UNF-2B, RH F</td>
<td>Nut</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>F-11</td>
<td>1/8&quot; NPT M</td>
<td>Adaptor</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>F-12</td>
<td>1/4&quot; NPT M</td>
<td>Adaptor</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>F-22</td>
<td>1/4&quot; NPT M</td>
<td>Adaptor</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>F-30</td>
<td>.750&quot;-16 UNF-2B, RH F</td>
<td>Nut</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>F-31</td>
<td>1/4&quot; NPT M</td>
<td>Adaptor</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>F-32</td>
<td>3/8&quot; NPT M</td>
<td>Adaptor</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>F-33</td>
<td>1/2&quot; NPT M</td>
<td>Adaptor</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>F-40</td>
<td>.875&quot;-14 UNF-2B, RH F</td>
<td>Nut</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>F-41</td>
<td>1/4&quot; NPT M</td>
<td>Adaptor</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>F-42</td>
<td>3/8&quot; NPT M</td>
<td>Adaptor</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>F-43</td>
<td>1/2&quot; NPT M</td>
<td>Adaptor</td>
<td>5/8&quot;</td>
</tr>
<tr>
<td>F-44</td>
<td>3/4&quot; NPT M</td>
<td>Adaptor</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>

### Part No. Description | Service

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMH-2-9</td>
<td>48&quot;</td>
<td>CGA-440</td>
</tr>
<tr>
<td>WMH-2-10</td>
<td>60&quot;</td>
<td>CGA-440</td>
</tr>
<tr>
<td>WMH-2-11</td>
<td>72&quot;</td>
<td>CGA-295</td>
</tr>
<tr>
<td>WMH-2-12</td>
<td>120&quot;</td>
<td>CGA-295</td>
</tr>
<tr>
<td>WMH-2-13</td>
<td>144&quot;</td>
<td>CGA-295</td>
</tr>
</tbody>
</table>

- F-61 Oxygen, SS Cylinder Fill Elbow 90°
- F-63 Nitrogen, Argon, SS Cylinder Fill Elbow 90°
- 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

---

Western Enterprises
Vendor Code: WES

Rigid Pigtails / Cryogenic Hoses / SAE Flare Connections

www.middlesexgases.com
## Cylinder Adaptors Table

<table>
<thead>
<tr>
<th>Cylinder Adaptor</th>
<th>Nut</th>
<th>Nipple</th>
<th>Regulator Adaptor</th>
<th>From Cylinder Service</th>
<th>To Regulator Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>0322</td>
<td>305-2</td>
<td>305-3</td>
<td>15-1</td>
<td>CGA-200 &quot;MC&quot; Acetylene</td>
<td>CGA-300 Commercial Acetylene</td>
</tr>
<tr>
<td>0321</td>
<td>305-2</td>
<td>305-3</td>
<td>16-1</td>
<td>CGA-200 &quot;MC&quot; Acetylene</td>
<td>CGA-510 POL Acetylene 90°</td>
</tr>
<tr>
<td>0324</td>
<td>305-2</td>
<td>305-3</td>
<td>16-1</td>
<td>CGA-200 &quot;MC&quot; Acetylene</td>
<td>CGA-510 POL Acetylene</td>
</tr>
<tr>
<td>0305</td>
<td>305-2</td>
<td>305-3</td>
<td>305-1</td>
<td>CGA-200 &quot;MC&quot; Acetylene</td>
<td>CGA-520 &quot;B&quot; Tank 90°</td>
</tr>
<tr>
<td>0314</td>
<td>305-2</td>
<td>305-3</td>
<td>314-1</td>
<td>CGA-200 &quot;MC&quot; Acetylene</td>
<td>CGA-520 &quot;B&quot; Tank</td>
</tr>
<tr>
<td>0831</td>
<td>0284</td>
<td>0283</td>
<td>415-1</td>
<td>CGA-280 Medical Mixtures</td>
<td>CGA-540 Oxygen</td>
</tr>
<tr>
<td>0840</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>CGA-295 Argon (LqW)</td>
<td>CGA-440 Oxygen (LqW)</td>
</tr>
<tr>
<td>0841</td>
<td>29-2</td>
<td>29-3</td>
<td>417-1</td>
<td>CGA-296 Ind Mix (Oxygen)</td>
<td>CGA-590 Industrial Air</td>
</tr>
<tr>
<td>0304</td>
<td>16-2</td>
<td>16-3</td>
<td>302-1</td>
<td>CGA-300 Commercial Acetylene</td>
<td>CGA-200 &quot;MC&quot; Acetylene</td>
</tr>
<tr>
<td>0016</td>
<td>16-2</td>
<td>16-3</td>
<td>16-1</td>
<td>CGA-300 Commercial Acetylene</td>
<td>CGA-510 POL Acetylene</td>
</tr>
<tr>
<td>0061</td>
<td>16-2</td>
<td>16-3</td>
<td>16-1</td>
<td>CGA-300 Commercial Acetylene</td>
<td>CGA-510 POL Acetylene</td>
</tr>
<tr>
<td>1690</td>
<td>16-2</td>
<td>16-3</td>
<td>300-1</td>
<td>CGA-300 Commercial Acetylene</td>
<td>CGA-510 POL Acetylene 90°</td>
</tr>
<tr>
<td>0316</td>
<td>16-12</td>
<td>16-3</td>
<td>301-1</td>
<td>CGA-300 Commercial Acetylene</td>
<td>CGA-520 &quot;B&quot; Tank</td>
</tr>
<tr>
<td>0806</td>
<td>CO-2</td>
<td>CO-3</td>
<td>416-1</td>
<td>CGA-320 Carbon Dioxide</td>
<td>CGA-580 Nitrogen</td>
</tr>
<tr>
<td>0827</td>
<td>14-2</td>
<td>14-3</td>
<td>415-1</td>
<td>CGA-346 Air</td>
<td>CGA-540 Oxygen</td>
</tr>
<tr>
<td>0828</td>
<td>14-2</td>
<td>14-3</td>
<td>416-1</td>
<td>CGA-346 Air</td>
<td>CGA-580 Nitrogen</td>
</tr>
<tr>
<td>0843</td>
<td>14-2</td>
<td>14-3</td>
<td>417-1</td>
<td>CGA-346 Air</td>
<td>CGA-590 Industrial Air</td>
</tr>
<tr>
<td>0808</td>
<td>0082</td>
<td>0083</td>
<td>416-1</td>
<td>CGA-350 Hydrogen</td>
<td>CGA-580 Nitrogen</td>
</tr>
<tr>
<td>0872</td>
<td>500-2</td>
<td>15-8</td>
<td>415-1</td>
<td>CGA-500 Medical Mixtures</td>
<td>CGA-540 Oxygen</td>
</tr>
<tr>
<td>0873</td>
<td>500-2</td>
<td>15-8</td>
<td>416-1</td>
<td>CGA-500 Medical Mixtures</td>
<td>CGA-580 Nitrogen</td>
</tr>
<tr>
<td>0874</td>
<td>500-2</td>
<td>15-8</td>
<td>417-1</td>
<td>CGA-500 Medical Mixtures</td>
<td>CGA-590 Industrial Air</td>
</tr>
<tr>
<td>0320</td>
<td>15-2</td>
<td>15-8</td>
<td>302-1</td>
<td>CGA-510 POL Acetylene</td>
<td>CGA-200 &quot;MC&quot; Acetylene</td>
</tr>
<tr>
<td>0015</td>
<td>15-2</td>
<td>15-8</td>
<td>15-1</td>
<td>CGA-510 POL Acetylene</td>
<td>CGA-300 Commercial Acetylene</td>
</tr>
<tr>
<td>0051</td>
<td>15-2</td>
<td>15-8</td>
<td>15-1</td>
<td>CGA-510 POL Acetylene</td>
<td>CGA-300 Coml. Acet. 1 Piece</td>
</tr>
<tr>
<td>0818</td>
<td>15-2</td>
<td>15-8</td>
<td>800-1</td>
<td>CGA-510 POL Acetylene</td>
<td>CGA-350 Hydrogen</td>
</tr>
<tr>
<td>1516</td>
<td>15-2</td>
<td>15-8</td>
<td>1516-1</td>
<td>CGA-510 POL Acetylene</td>
<td>CGA-410 Canadian Acetylene</td>
</tr>
<tr>
<td>0820</td>
<td>15-2</td>
<td>15-8</td>
<td>300-1</td>
<td>CGA-510 POL Acetylene</td>
<td>CGA-510 POL Acetylene 90°</td>
</tr>
<tr>
<td>0315</td>
<td>15-2</td>
<td>15-8</td>
<td>301-1</td>
<td>CGA-510 POL Acetylene</td>
<td>CGA-520 &quot;B&quot; Tank</td>
</tr>
<tr>
<td>0306</td>
<td>300-2</td>
<td>--</td>
<td>306-1</td>
<td>CGA-520 &quot;B&quot; Tank Acetylene</td>
<td>CGA-300 Commercial Acetylene</td>
</tr>
<tr>
<td>0319</td>
<td>300-2</td>
<td>300-3</td>
<td>15-1</td>
<td>CGA-520 &quot;B&quot; Tank Acetylene</td>
<td>CGA-300 Commercial Acetylene</td>
</tr>
<tr>
<td>0317</td>
<td>300-2</td>
<td>300-3</td>
<td>16-1</td>
<td>CGA-520 &quot;B&quot; Tank Acetylene</td>
<td>CGA-510 POL Acetylene</td>
</tr>
<tr>
<td>0318</td>
<td>300-2</td>
<td>300-3</td>
<td>300-1</td>
<td>CGA-520 &quot;B&quot; Tank Acetylene</td>
<td>CGA-510 POL Acetylene 90°</td>
</tr>
<tr>
<td>0832</td>
<td>0062</td>
<td>0063</td>
<td>1341-1</td>
<td>CGA-540 Oxygen</td>
<td>CGA-346 Air</td>
</tr>
<tr>
<td>0416</td>
<td>0062</td>
<td>0063</td>
<td>416-1</td>
<td>CGA-540 Oxygen</td>
<td>CGA-580 Nitrogen</td>
</tr>
<tr>
<td>0802</td>
<td>0072</td>
<td>0073</td>
<td>16-1</td>
<td>CGA-555 Propane (LqW)</td>
<td>CGA-510 POL Acetylene</td>
</tr>
<tr>
<td>0809</td>
<td>0072</td>
<td>0073</td>
<td>416-1</td>
<td>CGA-555 Propane (LqW)</td>
<td>CGA-580 Nitrogen</td>
</tr>
<tr>
<td>0810</td>
<td>0092</td>
<td>15-8</td>
<td>CO-2-1</td>
<td>CGA-580 Nitrogen</td>
<td>CGA-320 Carbon Dioxide</td>
</tr>
<tr>
<td>0830</td>
<td>0092</td>
<td>15-8</td>
<td>1341-1</td>
<td>CGA-580 Nitrogen</td>
<td>CGA-346 Air</td>
</tr>
<tr>
<td>0811</td>
<td>0092</td>
<td>15-8</td>
<td>800-1</td>
<td>CGA-580 Nitrogen</td>
<td>CGA-350 Hydrogen</td>
</tr>
<tr>
<td>0415</td>
<td>0092</td>
<td>15-8</td>
<td>415-1</td>
<td>CGA-580 Nitrogen</td>
<td>CGA-540 Oxygen</td>
</tr>
<tr>
<td>0812</td>
<td>0092</td>
<td>15-8</td>
<td>414-1</td>
<td>CGA-580 Nitrogen</td>
<td>CGA-555 Propane (LqW)</td>
</tr>
<tr>
<td>0813</td>
<td>0092</td>
<td>15-8</td>
<td>417-1</td>
<td>CGA-580 Nitrogen</td>
<td>CGA-590 Industrial Air</td>
</tr>
<tr>
<td>0858</td>
<td>0093</td>
<td>15-8</td>
<td>1341-1</td>
<td>CGA-590 Industrial Air</td>
<td>CGA-346 Air</td>
</tr>
<tr>
<td>0815</td>
<td>0093</td>
<td>15-8</td>
<td>416-1</td>
<td>CGA-590 Industrial Air</td>
<td>CGA-580 Nitrogen</td>
</tr>
<tr>
<td>CGA Code</td>
<td>Description</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-200</td>
<td>To CGA-300: Part 0322</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-280</td>
<td>To CGA-540: Part 0831</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-300</td>
<td>To CGA-510: Part 0061</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-346</td>
<td>To CGA-580: Part 0828</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-200</td>
<td>To CGA-510: Part 0321</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-295</td>
<td>To CGA-440: Part 0840</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-300</td>
<td>To CGA-510: Part 1690</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-346</td>
<td>To CGA-590: Part 0843</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-200</td>
<td>To CGA-590: Part 0841</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-300</td>
<td>To CGA-520: Part 0316</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-350</td>
<td>To CGA-580: Part 0808</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-200</td>
<td>To CGA-520: Part 0305</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-300</td>
<td>To CGA-500: Part 0304</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-320</td>
<td>To CGA-580: Part 0806</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-500</td>
<td>To CGA-540: Part 0872</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-200</td>
<td>To CGA-520: Part 0314</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-300</td>
<td>To CGA-510: Part 0016</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-346</td>
<td>To CGA-540: Part 0827</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-500</td>
<td>To CGA-580: Part 0873</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-500</td>
<td>To CGA-590: Part 0874</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-510</td>
<td>To CGA-410: Part 1516</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-520</td>
<td>To CGA-510: Part 0317</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-555</td>
<td>To CGA-580: Part 0809</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-510</td>
<td>To CGA-200: Part 0320</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-510</td>
<td>To CGA-510: Part 0820</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-520</td>
<td>To CGA-510: Part 0318</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-580</td>
<td>To CGA-320: Part 0810</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-510</td>
<td>To CGA-300: Part 0015</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CGA-510</td>
<td>To CGA-520: Part 0315</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- CGA-200: “MC” Acetylene Cylinder To Commercial Acetylene Regulator
- CGA-280: Medical Breathing Mix Cylinder To Oxygen Regulator
- CGA-300: Commercial Acetylene Cylinder To POL Acetylene Regulator At 90°
- CGA-346: Air Cylinder To Argon, Helium, Nitrogen Regulator
- CGA-295: Argon (LqW) Cylinder To Oxygen (LqW) Regulator
- CGA-300: Commercial Acetylene Cylinder To POL Acetylene Regulator At 90°
- CGA-346: Air Cylinder To Industrial Air Regulator
- CGA-200: “MC” Acetylene Cylinder To POL Acetylene Regulator
- CGA-320: Carbon Dioxide Cylinder To Nitrogen, W.P. Regulator
- CGA-500: Med Mixtures Cylinder To Oxygen Regulator
- CGA-200: “MC” Acetylene Cylinder To “B” Tank Regulator At 90°
- CGA-300: Commercial Acetylene Cylinder To POL Acetylene Regulator
- CGA-346: Air Cylinder To Oxygen Regulator
- CGA-500: Med Mixtures Cylinder To Nitrogen, W.P. Regulator
- CGA-510: POL Acetylene Cylinder To Commercial “MC” Acetylene Regulator
- CGA-510: POL Acetylene Cylinder To “B” Tank Regulator
- CGA-510: POL Acetylene Cylinder To POL Acetylene Regulator At 90°
- CGA-520: Nitrogen W.P. Cylinder To Carbon Dioxide Regulator
- CGA-555: Propane (LqW) Cylinder To Nitrogen, W.P. Regulator
- CGA-510: POL Acetylene Cylinder To “B” Tank Regulator
- CGA-510: POL Acetylene Cylinder To Commercial Acetylene Regulator
**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.

### Cylinder Adaptors, Brass

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGA-540</td>
<td>To CGA-346: Part 0382 Oxygen Cylinder To Air Regulator</td>
</tr>
<tr>
<td>CGA-580</td>
<td>To CGA-346: Part 0830 Nitrogen Cylinder To Air Regulator</td>
</tr>
<tr>
<td>CGA-510</td>
<td>To CGA-300: Part 0051 POL Acetylene Cylinder To Commercial Acetylene Regulator (1 Piece)</td>
</tr>
<tr>
<td>CGA-520</td>
<td>To CGA-200: Part 0306 “B” Tank Cylinder To “MC” Acetylene Regulator</td>
</tr>
<tr>
<td>CGA-540</td>
<td>To CGA-580: Part 0416 Oxygen Cylinder To Nitrogen, Argon, W.P. Regulator</td>
</tr>
<tr>
<td>CGA-580</td>
<td>To CGA-350: Part 0811 Nitrogen W.P. Cylinder To Hydrogen Regulator</td>
</tr>
<tr>
<td>CGA-510</td>
<td>To CGA-350: Part 0818 POL Acetylene Cylinder To Hydrogen Regulator</td>
</tr>
<tr>
<td>CGA-550</td>
<td>To CGA-300: Part 0319 “B” Tank Cylinder To Commercial Acetylene Regulator</td>
</tr>
<tr>
<td>CGA-555</td>
<td>To CGA-510: Part 0002 Propane (LqW) Cylinder To POL Acetylene Regulator</td>
</tr>
<tr>
<td>CGA-580</td>
<td>To CGA-540: Part 0415 Nitrogen W.P. Cylinder To Oxygen Regulator</td>
</tr>
<tr>
<td>CGA-580</td>
<td>To CGA-555: Part 0812 Nitrogen W.P. Cylinder To Propane (LqW) Regulator</td>
</tr>
<tr>
<td>CGA-580</td>
<td>To CGA-590: Part 0813 Nitrogen W.P. Cylinder To Industrial Air Regulator</td>
</tr>
<tr>
<td>CGA-590</td>
<td>To CGA-346: Part 0858 Industrial Air Cylinder To Air Regulator</td>
</tr>
<tr>
<td>CGA-590</td>
<td>To CGA-580: Part 0815 Industrial Air Cylinder To Nitrogen, W.P. Regulator</td>
</tr>
</tbody>
</table>

### Fuel Gases

- **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
- **Nitrous Oxide** CGA 326
- **Nitrogen** CGA 590 *O.P.*
- **Nut & Nipple** Oxygen CGA 540
- **Oxygen** CGA 870 *Yoke*
- **W.P.** Nitrogen CGA 580
- **Liquified** Fuel Gases CGA 510

www.middlesexgases.com