

WELDING AND CUTTING CATALOG EQUIPMENT

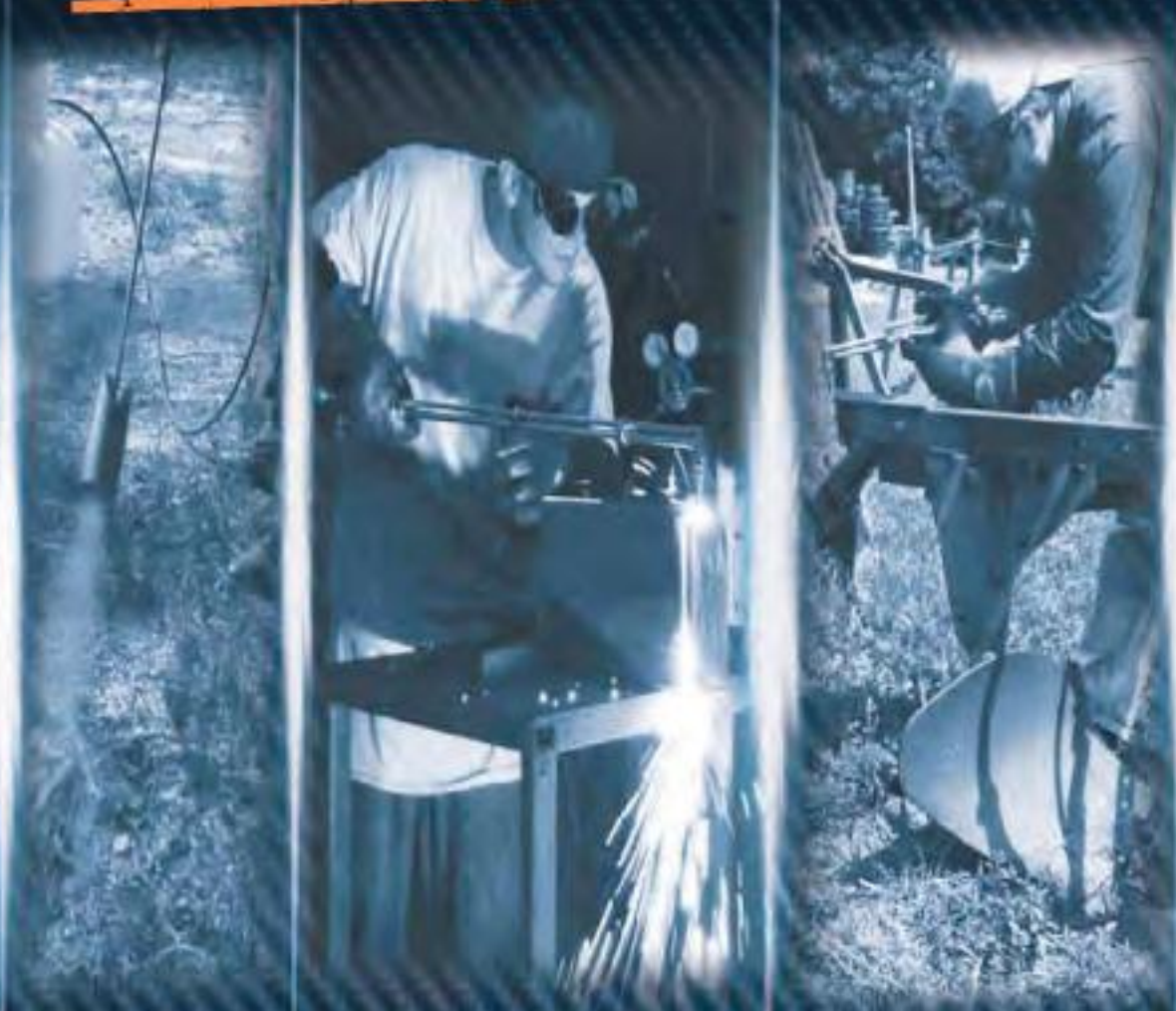
Construction, Bridge Building, Ship Building, Railroad, Mining and Farm Applications



QUALITY TOOLS THAT GO TO WORK WITH YOU®

UNIWELD PRODUCTS, INC.
FORT LAUDERDALE, FL 33312 U.S.A.
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UNIWELD ON THE JOB



Whether you're cutting, welding, heating or brazing, Uniweld can provide you with the proper Oxyfuel flame tools for your specific job requirements. In this catalog, you will find page after page of the finest V-style, H-style and A-style cutting and welding outfits, plus a complete selection of cutting attachments, welding handles, hand cutting torches, machine cutting torches, cutting tips, weld/braze/heating tips, regulators, flowmeters, flowgauges, cylinder to regulator adaptors, replacement gauges, cylinders and tanks, hoses, hose repair kits, flashback arrestors, check valves, flint lighters, wrenches, gloves, goggles, tip savers, propane torch kits, jewelers flame tools, balloon regulators, HVACR torches, kits and tips, plus a few specialty outfits. Keep in mind that over 80% of these items are proudly produced right here in Fort Lauderdale, Florida.



UNIWELD PRODUCTS, INC.
Fort Lauderdale, FL 33312 U.S.A.



Introduction to Flame Tools

This catalog presents a full range of flame tools for the professional welder and metal fabricator in construction, bridge building, ship building, railroading, mining and farming applications. When deciding on the proper flame tool, first determine if you will be using it for welding or cutting steel, heating, brazing, soldering or maybe all of the aforementioned. First, let's review basic industry definitions for the above applications. Then we'll determine what equipment will be required for each application.

OXY/FUEL GAS WELDING (OFW) involves melting the base metal and usually a filler metal, using a flame produced at the tip of a welding torch. Fuel gas and oxygen are combined in the proper portions inside a mixing chamber which may be part of the welding tip assembly. Molten metal from the plate edges, and the filler metal, if used, intermix in a common molten pool and fuse upon cooling. The equipment used in oxy/fuel gas welding is usually portable, and versatile enough to be used for preheating, heating for softening metals to facilitate bending and straightening, soldering, brazing and welding.

OXYGEN GAS CUTTING (OFC) severs or removes metal by the chemical reaction of oxygen with the metal at elevated temperatures. The necessary temperature is maintained by a flame of fuel gas burning in oxygen. The oxy/fuel cutting process employs a torch with a tip (nozzle). The functions of the torch are to produce preheat flames by mixing the gas and the oxygen in the correct proportions and supply a concentrated stream of high-purity oxygen to the reaction zone. The oxygen oxidizes the hot metal and also blows the molten reaction products from the joint.

BRAZING & SOLDERING are basically very similar. It is the joining of metals through the use of heat and a filler metal. The difference between soldering and brazing is the temperature at which the filler material melts. If the filler material melts below 840°F, it is soldering; above 840°F, it is brazing. In general, soldering will provide a permanent

bond but brazing is preferred when vibration, temperature and higher tensile strength are considerations.

The minimum **BASIC WELDING EQUIPMENT** needed to perform oxy/fuel gas welding is completely self-sufficient and relatively inexpensive. It consists of fuel gas and oxygen cylinders, each with a gas regulator for reducing cylinder pressure, hoses for conveying the gases to the torch, and a torch and tip combination for adjusting the gas mixtures and producing the desired flame. The same basic equipment is used for brazing and many heating operations. Some of this equipment is designed for general use and some is produced for specific operations.



BASIC TORCH BRAZING

depends upon the temperature and the amount of heat required, the fuel gas (Acetylene, Propane, Natural Gas, etc.) may be burned with air, compressed air or oxygen. Air/Natural gas torches provide the lowest flame temperature as well as the least heat. Acetylene is used in air/acetylene torch with air at atmospheric pressure. Both air/gas and air/acetylene torches can be used to advantage on small parts and thin sections. Torches which employ oxygen with natural gas, or other cylinder gases (propane, propylene) have

higher flame temperatures. When properly applied as neutral or slightly reducing flame, excellent results are obtainable with many brazing applications. Oxy/hydrogen torches are often used for brazing aluminum and non-ferrous alloys. The lower temperature reduces the possibility of overheating the assembly during brazing.

BASIC CUTTING EQUIPMENT there are three basic types of oxy/fuel cutting torches: the tip mixing type, in which the fuel and oxygen for preheating flames are mixed in the tip; and the premixing types in which the mixing takes place within the head or tubes of the torch. Oxygen cutting tips have preheat flame ports, arranged in a circle around a central cutting oxygen orifice. The preheat flame ports and cutting oxygen orifice are sized for the thickness range of metal that the tip is designed to cut.

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OUTFITS CUTTING & WELDING

STYLE

ROUGHNECK HEAVY DUTY

The UniWeld Roughnecks are complete super heavy duty Oxyacetylene or Propane outfits for cutting, welding, brazing & heating.

780A CUTTING ATTACHMENT

with precision machined forged brass head and body and one-piece universal copper mixer.

RV SERIES REGULATORS

have single scale 2 1/2" gauges, stainless steel diaphragms and accessibility to the seat from the rear.

WH360 WELDING HANDLE

can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes.

ROUGHNECK

Includes one Type 11-8 heating tip & one each Type 4-1, -3, -5 welding tips.

ROUGHNECK II

Includes one Type 11-8 heating tip and one Type 4-2 welding tip.

ROUGHNECK PROPANE

Includes an RV8012 Propane regulator, GPN-2 cutting tip, grade "T" hose and Type 12-8 heating tip. Specially designed to cut, braze and heat with Propane.



OPH1-780A

FLIP
GOOGLES

Cutting Capacity: 3/4" with supplied tip; up to 8" with optional tips [See pgs. 14-24]

Welding Capacity: 1/2" with supplied tips; up to 3" with optional tips [See pg. 25]

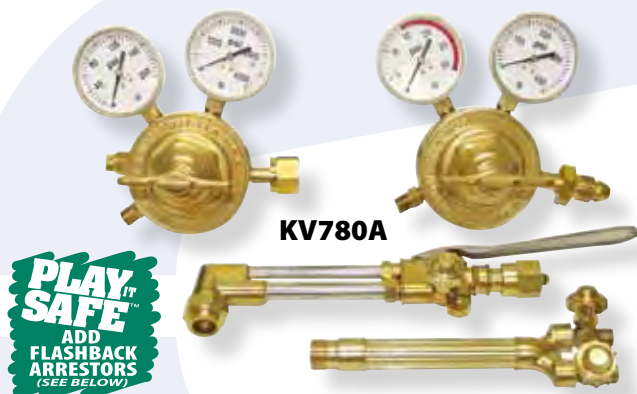
Heating Tips: [See pgs. 30, 31]

ROUGHNECK HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# OPH1-780A UPC# 80000	WH360	780A	1-101-1	TYPE 4 -1, -3, -5	TYPE 11 8	RV8010 CGA540	RV8011 CGA510	TWIN HOSE 25' 1/4" "B" GOOGLES & LIGHTER
PART# OPH1-780A-4 UPC# 80002	WH360	780A	1-101-1	TYPE 4 -1, -3, -5	TYPE 11 8	RV8010 CGA540	RV8011 CGA510	NO ACCESSORIES
ROUGHNECK II HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KVH780A UPC# 80080	WH360	780A	1-101-1	TYPE 4 2	TYPE 11 8	RV8010 CGA540	RV8011 CGA510	TWIN HOSE 25' 1/4" "B" GOOGLES & LIGHTER
PART# KVH780A-4 UPC# 80081	WH360	780A	1-101-1	TYPE 4 2	TYPE 11 8	RV8010 CGA540	RV8011 CGA510	NO ACCESSORIES
ROUGHNECK PROPANE HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	PROPANE* REGULATOR 2-40 PSIG	ACCESSORIES
PART# KVP780A UPC# 80082	WH360	780A	GPN-2	- -	TYPE 12 8	RV8010 CGA540	RV8012 CGA510	GRADE "T" TWIN HOSE 25' 1/4" "B" GOOGLES & LIGHTER
PART# KVP780A-4 UPC# 80083	WH360	780A	GPN-2	- -	TYPE 12 8	RV8010 CGA540	RV8012 CGA510	NO ACCESSORIES

ROUGHNECK AND ROUGHNECK II (EXCEPT ROUGHNECK PROPANE) OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

Add (FB) to Part# to include U.L. Listed Flashback Arrestors on the Welding Handle. [See pg. 106]



KV780A

PLAY IT SAFE™
ADD
FLASHBACK
ARRESTORS
(SEE BELOW)

Cutting Capacity: 8" with optional tips [See pgs. 14-24]

Welding Capacity: 3" with optional tips [See pg. 25]

Heating Tips: [See pgs. 30, 31]

FABRICATOR

HEAVY DUTY



MADE IN U.S.A.

The Uniweld Fabricator is a basic heavy duty Oxyacetylene outfit for cutting, welding, brazing & heating.

780A CUTTING ATTACHMENT with precision machined forged brass head and body and one-piece universal copper mixer.

RV or RUH83 SERIES REGULATORS with large, easy to read single scale 2½" gauges.

WH360 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes.

FABRICATOR HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	GAUGES
PART# KV780A UPC# 80004	WH360	780A 90°	RV8010 CGA540	RV8011 CGA510	2½"
PART# KR780A UPC# 81100	WH360	780A 90°	RUH8310 CGA540	RUH8311 CGA510	2½"
PART# KV780 UPC# 80084	WH360	780 75°	RV8010 CGA540	RV8011 CGA510	2½"
PART# KR780 UPC# 81106	WH360	780 75°	RUH8310 CGA540	RUH8311 CGA510	2½"

Add (FB) to Part# to include
U.L. Listed Flashback Arrestors
on the Welding Handle.
[See pg. 106]

FABRICATOR OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

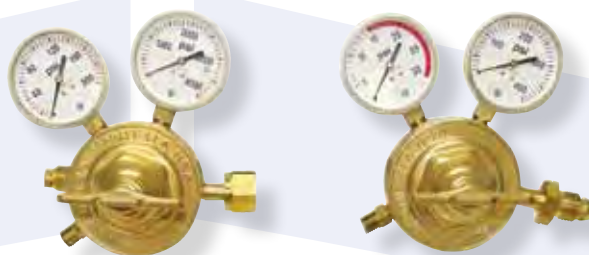
PROFESSIONAL

HEAVY DUTY

The Uniweld Professional is a basic heavy duty Oxyacetylene cutting outfit.

CUTTING TORCH with heavy duty precision machined forged brass head and body. Universal mixer for most fuel gases 3 PSIG and above. Model 830 (top rear lever, shown) or model 850 (bottom rear lever).

RV or RUH83 SERIES REGULATORS with large, easy to read single scale 2½" gauges.



KV830-21



MADE IN U.S.A.

PLAY IT SAFE™
ADD
FLASHBACK
ARRESTORS
(SEE BELOW)

Cutting Capacity: up to 12" with proper tip [See pgs. 14-24]

PROFESSIONAL HEAVY DUTY	HAND CUTTING TORCH	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	GAUGES	PROFESSIONAL HEAVY DUTY	HAND CUTTING TORCH	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	GAUGES
PART# KV830-21 UPC# 80100	830-21 90°	RV8010 CGA540	RV8011 CGA510	2½"	PART# KR830-21 UPC# 81200	830-21 90°	RUH8310 CGA540	RUH8311 CGA510	2½"
PART# KV850-21 UPC# 80200	850-21 90°	RV8010 CGA540	RV8011 CGA510	2½"	PART# KR850-21 UPC# 81300	850-21 90°	RUH8310 CGA540	RUH8311 CGA510	2½"

PROFESSIONAL OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

Hand Cutting Torches come with Check Valves installed. Add (FB) to Part# to substitute U.L. Listed Flashback Arrestors for Check Valves. Uniweld Check Valves and Flashback Arrestors are both field replaceable. [See pg. 106]



OUTFITS CUTTING & WELDING

STYLE



KAR780A



KAR780ASPF-4



THE SPECIALIST HEAVY DUTY

ALL-AMERICAN HEAVY DUTY

The UniWeld All-American is a heavy duty Oxyacetylene outfit for cutting, welding & brazing.

780A CUTTING ATTACHMENT with precision machined forged brass head and body and one-piece universal copper mixer.

RV or RUH83 SERIES REGULATORS with large, easy to read single scale 2 1/2" gauges.

WH360 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes.

Cutting Capacity: 3/4" with supplied tip; up to 8" with optional tips [See pgs. 14-24]

Welding Capacity: 3/32" with supplied tip; up to 3" with optional tips [See pg. 25]

Heating Tips: [See pgs. 30, 31]

The UniWeld Specialist is a heavy duty Oxyacetylene outfit for cutting, welding and brazing. Oxygen and fuel removable flashback arrestors with built-in check valves prevent reverse flow of gases and flashback. Packed in its own handy tool box with utility tray.

780A CUTTING ATTACHMENT with precision machined forged brass head and body and one-piece universal copper mixer.

RUH83 SERIES REGULATORS with large, easy to read single scale 2 1/2" gauges.

WH360 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes.

Cutting Capacity: 3/4" with supplied tip; up to 8" with optional tips [See pgs. 14-24]

Welding Capacity: 3/32" with supplied tip; up to 3" with optional tips [See pg. 25]

Heating Tips: [See pgs. 30, 31]

ALL-AMERICAN HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KAV780A UPC# 80006	WH360	780A	1-101-1	TYPE 4 1	RV8010 CGA540	RV8011 CGA510	TWIN HOSE 20' 1/4" "B" GOGGLES & LIGHTER
PART# KAR780A UPC# 81102	WH360	780A	1-101-1	TYPE 4 1	RUH8310 CGA540	RUH8311 CGA510	TWIN HOSE 20' 1/4" "B" GOGGLES & LIGHTER
PART# KAV780A-4 UPC# 80008	WH360	780A	1-101-1	TYPE 4 1	RV8010 CGA540	RV8011 CGA510	NO ACCESSORIES
PART# KAR780A-4 UPC# 81104	WH360	780A	1-101-1	TYPE 4 1	RUH8310 CGA540	RUH8311 CGA510	NO ACCESSORIES
ALL-AMERICAN OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#							Add (FB) to Part# to include U.L. Listed Flashback Arrestors on the Welding Handle. [See pg. 106]
THE SPECIALIST HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KAR780ASPF-4 UPC# 81109	WH360	780A	1-101-1	TYPE 4 1	RUH8310 CGA540	RUH8311 CGA510	CC60 BLACK PLASTIC TOOL BOX AND TRAY, TFA100 & TFA101 FLASHBACK ARRESTORS

Optional Twin Hose Set, "B" fittings [Pg. 103]; Spiral Tip Cleaner [Pg. 106]; FLIP-UP GOGGLES, SHADE #5 [Pg. 105]; Wrenches [Pg. 105]

SPECIALIST OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

ROLLIN' ROUGHNECK

HEAVY DUTY

The Uniweld Rollin' Roughneck is the roughest, toughest most complete portable heavy duty Oxyacetylene welding and cutting system you'll ever find.

780A CUTTING ATTACHMENT with precision machined forged brass head and body and one-piece universal copper mixer for maximum performance & stability.

RV SERIES REGULATORS have single scale 2 1/2" gauges, stainless steel diaphragms & accessibility to the seat from the rear.

WH360 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes.

Cutting Capacity: 3/4" with supplied tip; up to 8" with optional tips [See pgs. 14-24]

Welding Capacity: 1/2" with supplied tips; up to 3" with optional tips [See pg. 25]

Heating Tips: [See pgs. 30, 31]. Dimensions: 35 1/4" W • 28" D • 61" H

Weight: 95 LBS (without cylinders).

16" X 4" PNEUMATIC TIRES

WELDED STEEL FRAME
SEE-THRU GRATES

1000 LB. CAPACITY LIFTING HOOK

Part# 509
[cart only]
UPC# 30016

Part# 509FW
[cart with firewall]
UPC# 30019

80060



MADE IN U.S.A.

ROLLIN' ROUGHNECK HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ROLLIN' ROUGHNECK CART
PART# 80060 UPC# 80060	WH360	780A	1-101-1	TYPE 4 -1, -3, -5	TYPE 11 8	RV8010 CGA540	RV8011 CGA510	509 W/O CYLINDERS
PART# 80061 UPC# 80061	WH360	780A	1-101-1	TYPE 4 -1, -3, -5	TYPE 11 8	RV8010 CGA540	RV8011 CGA510	509FW† W/O CYLINDERS

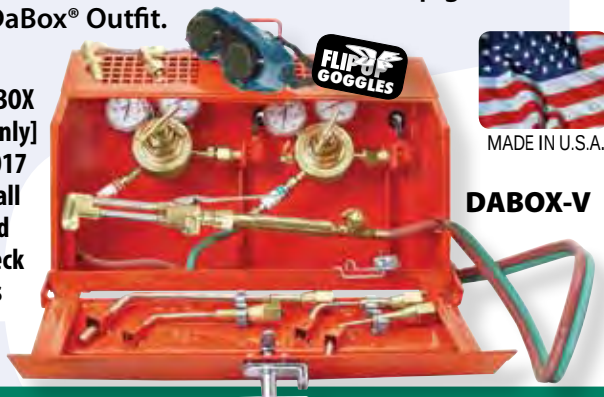
ROLLIN' ROUGHNECK INCLUDES: 25' TWIN HOSE, 1/4" "B" FITTINGS [Pg. 105], FLIP-UP GOGGLES, SHADE #5 [Pg. 107], FLINT LIGHTER [Pg. 107], TORCH FLASHBACK ARRESTORS [Pg. 106] INSTALLED AND 18" STAINLESS STEEL PIGTAIL ASSEMBLY. † 509FW COMES WITH BUILT-IN FIREWALL

DA BOX®

HEAVY DUTY

The Uniweld Da Box® is the perfect outfit to mount on your truck for maximum mobility and security. Includes V-style Roughneck outfit, padlocking, heavy gauge steel construction. Add the desired braided stainless steel hose pigtails to complete DaBox® Outfit.

Part# DA BOX
[cabinet only]
UPC# 30017
Accepts all
Uniweld
Roughneck
Outfits



MADE IN U.S.A.

DABOX-V

PIGTAILS

PART#	UPC#	LENGTH	DESCRIPTION
PT300-24	43601	24"	Flexible Stainless Steel Pigtail Assemblies with Brass Fittings CGA300 Acetylene
PT300-36	43602	36"	
PT300-48	43603	48"	
PT510-24	43621	24"	Flexible Stainless Steel Pigtail Assemblies with Brass Fittings CGA510 Acetylene or Propane
PT510-36	43622	36"	
PT510-48	43623	48"	
PT540-24	43631	24"	Flexible Stainless Steel Pigtail Assemblies with Brass Fittings CGA540, Oxygen, 3000 PSIG
PT540-36	43632	36"	
PT540-48	43633	48"	

ADDITIONAL PIGTAILS AVAILABLE ON REQUEST

Dimensions: 23" W • 10" D • 20" H

Weight: 39 LBS (empty).

DA BOX® HEAVY DUTY OUTFIT	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	DA BOX CABINET
PART# DABOX-V UPC# 80400	WH360	780A	1-101-1	TYPE 4 -1, -3, -5	TYPE 11 8	RV8010 CGA540	RV8011 CGA510	DA BOX

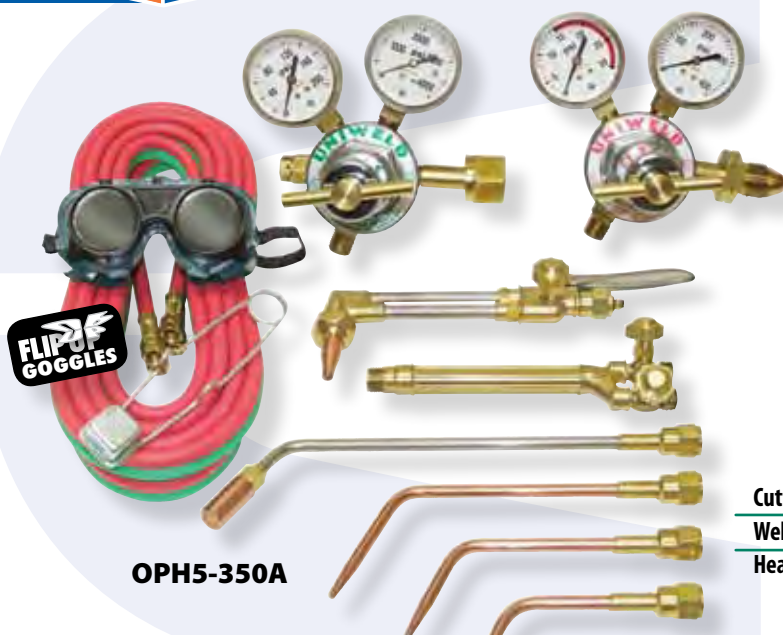
DA BOX-V INCLUDES: 25' TWIN HOSE, 1/4" "B" FITTINGS [Pg. 105], FLIP-UP GOGGLES, SHADE #5 [Pg. 107], FLINT LIGHTER [Pg. 107], CGA510 POL to CGA300 CA ADAPTOR [Pg. 97], REGULATOR FLASHBACK ARRESTOR INSTALLED [Pg. 106]

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]



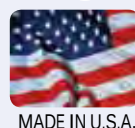
OUTFITS CUTTING & WELDING

STYLE



OPH5-350A

ALL-TRADES MEDIUM DUTY



MADE IN U.S.A.

The Uniweld All-Trades is a medium duty Oxyacetylene outfit for cutting, welding, brazing & heating.

CA350 CUTTING ATTACHMENT with precision machined forged brass head and body and one-piece universal copper mixer.

RUH82 SERIES REGULATORS with large, easy to read single scale 2" gauges.

WH350 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes.



Cutting Capacity: 1/2" with supplied tip; up to 6" with optional tips [See pgs. 14-17, 21-22, 24]

Welding Capacity: 1/4" with supplied tips; up to 1 1/4" with optional tips [See pg. 25]

Heating Tips: [See pg. 29]

Add (FB) to Part# to include U.L. Listed Flashback Arrestors on the Welding Handle. [See pg. 106]

ALL-TRADES MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# OPH5-350A UPC# 81000	WH350	CA350	3-101-0	TYPE 13 -0, -2, -4	TYPE 29 4	RUH8210 CGA540	RUH8211 CGA510	TWIN HOSE 20' 3/16" "B" GOGGLES & LIGHTER
PART# OPH5-350A-4 UPC# 81002	WH350	CA350	3-101-0	TYPE 13 -0, -2, -4	TYPE 29 4	RUH8210 CGA540	RUH8211 CGA510	NO ACCESSORIES

ALL-TRADES II MEDIUM DUTY



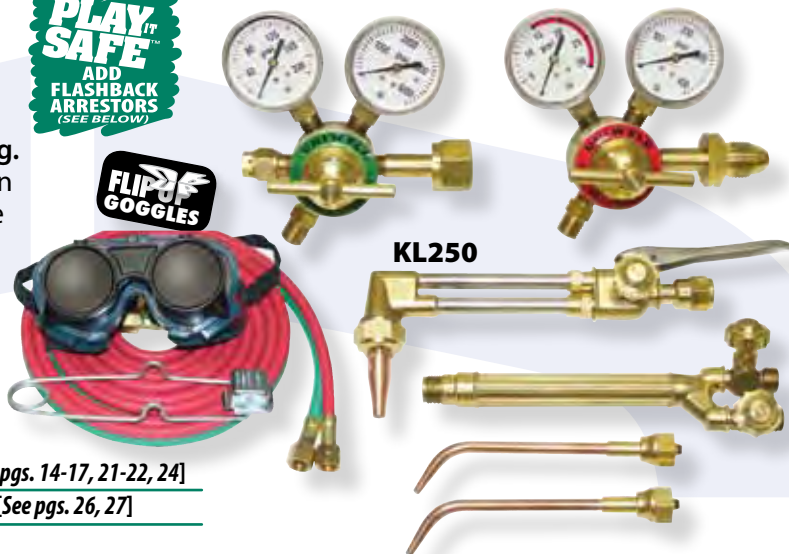
MADE IN U.S.A.

The Uniweld All-Trades II is a medium duty Oxyacetylene outfit for cutting, welding and brazing.

CA250 CUTTING ATTACHMENT with precision machined forged brass head and body and one-piece universal copper mixer.

MR SERIES REGULATORS with large, easy to read single scale 2" gauges.

WH250 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes.



KL250

Cutting Capacity: 1/2" with supplied tip; up to 6" with optional tips [See pgs. 14-17, 21-22, 24]

Welding Capacity: 1/8" with supplied tips; up to 1 1/4" with optional tips [See pgs. 26, 27]

Heating Tips: [See pgs. 27-29]

ALL-TRADES II MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	OXYGEN* REGULATOR 5-80 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KL250 UPC# 82000	WH250	CA250	3-101-0	TYPE 17 -0, -2	MR8210 CGA540	MR8211 CGA510	TWIN HOSE 12.5' 3/16" "B" GOGGLES & LIGHTER
PART# KL250-4 UPC# 82003	WH250	CA250	3-101-0	TYPE 17 -0, -2	MR8210 CGA540	MR8211 CGA510	NO ACCESSORIES

ALL TRADES AND ALL TRADES II OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#; WITH CGA520, ADD (-2) TO END OF PART#.

See page 9 for KL250 Outfits including carrying stand & cylinders.

Add (FB) to Part# to include U.L. Listed Flashback Arrestors on the Welding Handle. [See pg. 106]

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

THE WURKS®-V MEDIUM DUTY

The Uniweld Wurks-V is a complete 12 piece, easy-to-operate, all-purpose outfit for cutting, welding and brazing that's packed in its own rugged Wurks Box with a compartmented accessory tray.

- CA350 CUTTING ATTACHMENT with precision machine forged brass head and body and one-piece universal copper mixer.
- MR SERIES REGULATORS easy to read single scale 2" gauges.
- WH350 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes.

Cutting Capacity: 1/2" with supplied tip; up to 6" with optional tips [See pgs. 14-17, 21-22, 24]

Welding Capacity: 1/4" with supplied tip; up to 1 1/4" with optional tips [See pg. 25]

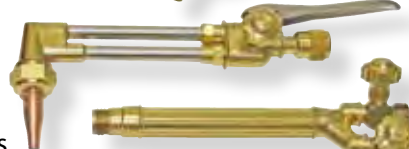
Heating Tips: [See pg. 29]



MADE IN U.S.A.



** ACCESSORIES INCLUDE: GOGGLES, LIGHTER, TIP CLEANER AND GLOVES



WURKS-V



ACCESSORIES**

THE WURKS-V MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-80 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	TOOLBOX W/TRAY	12.5' TWIN HOSE 3/16" "B"
PART# WURKS-V UPC# 82150	WH350	CA350	3-101-0	TYPE 13 2	MR8210 CGA540	MR8211 CGA510	CC60 BLACK PLASTIC	

WURKS-V OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98].

Add (FB) to Part# to include U.L. Listed Flashback Arrestors on the Welding Handle. [See pg. 106]

MINEPRO™ HEAVY DUTY

The Uniweld MINEPRO is a professional heavy duty Oxyacetylene outfit for commercial and industrial cutting, welding and heating.

- CA730 CUTTING ATTACHMENT with three tube in-line construction and tip mix technology for maximum safety.
- RV SERIES REGULATORS with large, easy to read single scale 2 1/2" gauges and a stainless steel diaphragm
- WH730 WELDING HANDLE with tube within a tube design and four O-ring seals for safety & ease of service



MADE IN U.S.A.



† GAUGELESS REGULATORS



FLASHBACK ARRESTORS INSTALLED



TOOL BOX INCLUDED

Cutting Capacity: 1/2" with supplied tip; up to 8" with optional tips [See pgs. 62-65]

Welding Capacity: up to 1 1/2" with optional tips [See pg. 68]

Heating Tips: [See pgs. 68-70]



MINER'S WRENCH INCLUDED

	MINE-PRO HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	FLASHBACK ARRESTORS	MINER'S WRENCH
CGA410	PART# KV730-CND UPC# 86450	WH730	CA730	164-1	TYPE 73 14	RV8010 CGA540	RV8011-CND CGA410	TFA100 TFA101	W12X 43439
CGA510	PART# KV730 UPC# 86451	WH730	CA730	164-1	TYPE 73 14	RV8010 CGA540	RV8011 CGA510	TFA100 TFA101	W12X 43439
CGA410	PART# KHG730-CND UPC# 86453	WH730	CA730	164-1	TYPE 73 14	RHG8010† CGA540	RHG8011-CND† CGA410	TFA100 TFA101	W12X 43439
CGA510	PART# KHG730 UPC# 86452	WH730	CA730	164-1	TYPE 73 14	RHG8010† CGA540	RHG8011† CGA510	TFA100 TFA101	W12X 43439

*Dual scale gauges & other regulator conn. available upon request. [See pgs. 97, 98]

Minimum 1/4" hose required (order separately). † Gaugeless Regulators [See pg. 90]
"Use 3/8" hose with the Type 73-14 Heating Tip for adequate gas flow"



OUTFITS CUTTING & WELDING

STYLE

ALL-AMERICAN MEDIUM DUTY

The UniWeld All-American is a medium duty Oxyacetylene or Propane outfit for cutting, welding and brazing.

CA350 CUTTING ATTACHMENT with precision machined forged brass head and body and one-piece copper mixer. Cuts up to 1/2" with supplied tip.

MR or RUH82 SERIES REGULATORS with large, easy to read single scale 2" gauges.

WH350 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes.

ALL-AMERICAN

Includes one Type 13-2 welding tip

ALL-AMERICAN II Includes one Type 29-4 heating tip and one Type 13-2 welding tip.

ALL-AMERICAN PROPANE

Includes RUH or MR series regulators, 3-GPN-1 cutting tip. Specially designed to cut with Propane. Also includes 20' grade "T" hose. Optional brazing & heating tips (See pgs. 27, 29)



KR350



Cutting Capacity: 1/2" with supplied tip; up to 6" with optional tips [See pgs. 14-17, 21-22, 24]

Welding Capacity: 1/8" with supplied tip; up to 1 1/4" with optional tips [See pg. 25]

Heating Tips: [See pg. 29]

ALL-AMERICAN MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES	
PART# KR350 UPC# 81004	WH350	CA350	3-101-0	TYPE 13 2	RUH8210 CGA540	RUH8211 CGA510	TWIN HOSE 20' 3/16" "B" GOGGLES & LIGHTER	
PART# KM350 UPC# 82100	WH350	CA350	3-101-0	TYPE 13 2	MR8210 CGA540	MR8211 CGA510	TWIN HOSE 20' 3/16" "B" GOGGLES, LIGHTER	
ALL-AMERICAN II MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KRH350 UPC# 81070	WH350	CA350	3-101-1	TYPE 13 2	TYPE 29 4	RUH8210 CGA540	RUH8211 CGA510	TWIN HOSE 20' 3/16" "B" GOGGLES & LIGHTER
PART# KMH350 UPC# 82180	WH350	CA350	3-101-1	TYPE 13 2	TYPE 29 4	MR8210 CGA540	MR8211 CGA510	TWIN HOSE 20' 3/16" "B" GOGGLES & LIGHTER
ALL-AMERICAN PROPANE MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-125 PSIG	PROPANE* REGULATOR 2-40 PSIG	ACCESSORIES	
PART# KRP350 UPC# 81071	WH350	CA350	3-GPN-1	- -	RUH8210 CGA540	RUH8212 CGA510	GRADE "T" TWIN HOSE 20' 3/16" "B" GOGGLES & LIGHTER	
PART# KMP350 UPC# 82181	WH350	CA350	3-GPN-1	- -	MR8210 CGA540	MR8212 CGA510	GRADE "T" TWIN HOSE 20' 3/16" "B" GOGGLES & LIGHTER	

ALL-AMERICAN AND ALL-AMERICAN II (EXCEPT ALL-AMERICAN PROPANE) OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#, ALL-AMERICAN AND ALL-AMERICAN II OUTFITS AVAILABLE WITHOUT ACCESSORIES - ORDER BY ADDING (-4) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

Add (FB) to Part# to include U.L. Listed Flashback Arrestors on the Welding Handle. [See pg.106]

ALL-AMERICAN OXYACETYLENE OUTFIT

KL350-P
MEDIUM DUTY KL350-P-TU

The Uniweld Oxyacetylene outfit is a portable outfit for cutting, welding & brazing in remote locations.

CA350 CUTTING ATTACHMENT cuts up to 3/8" with supplied tip.

RS SERIES REGULATORS with easy to read single scale 1 1/2" gauges with protective boots.

WH350 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes. Uses Type 13 series tips.

Cutting Capacity: 1/2" with supplied tip; up to 5" with optional tips [See pg. 14]

Welding Capacity: 1/8" with supplied tip; up to 1 3/4" with optional tips [See pg. 25]

SAFETY NOTE: MC cylinders (10 cu.ft.) will not provide adequate volume for MULTIFLAME HEATING TIPS (rosebud).

DO NOT USE MULTIFLAME HEATING TIPS WITH THIS TOTE OUTFIT OR ANY OTHER MC CYLINDER SYSTEM



MADE IN U.S.A.

PLAY IT SAFE
ADD FLASHBACK ARRESTORS (SEE BELOW)



UNITIZED
DISPLAY
PACKAGING

TU= Cylinders and outfits are unitized, packed in one master carton

Use 20 cu.ft (R) Oxygen cylinder and 10 cu.ft. (MC) Acetylene cylinder



KL350-P-TU

ALL-AMERICAN
UNIWELD TOTE
MEDIUM DUTY

WELDING
HANDLE

CUTTING
ATTACHMENT

CUTTING
TIP

WELD/BRAZE
TIP

OXYGEN*
REGULATOR
2-60 PSIG

ACETYLENE*
REGULATOR
2-15 PSIG

ACCESSORIES
PLUS 511
PLASTIC TOTE

PART# KL350-P
UPC# 82174

WH350

CA350

3-101-0

TYPE 13
2

RSOB
CGA540

RSMC2B
CGA200

TWIN HOSE 12.5' 3/16" "B", WRENCH,
GOGGLES, LIGHTER & TIP CLEANER

PART# KL350-P-TU
UPC# 82175

WH350

CA350

3-101-0

TYPE 13
2

RSOB
CGA540

RSMC2B
CGA200

TWIN HOSE 12.5' 3/16" "B", WRENCH,
GOGGLES, LIGHTER & TIP CLEANER

KL350-P-TU INCLUDES 10 CU.FT. ACETYLENE CYLINDER AND 20 CU.FT. OXYGEN CYLINDER, SHIPPED EMPTY. KL350-P SHIPPED WITHOUT CYLINDERS.

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

Add (FB) to Part# to include U.L. Listed Flashback Arrestors on the Welding Handle. [See pg. 106]



OUTFITS CUTTING & WELDING

STYLE

UNIWELD TOTE MEDIUM DUTY

The UniWeld Tote is a portable Oxyacetylene outfit for cutting, welding and brazing. Select either the rugged steel cart or molded plastic cart.

- CA250 CUTTING ATTACHMENT Cuts up to 1/2" with supplied tip.
- RS SERIES REGULATORS with easy to read single scale 1 1/2" gauges with protective boots.
- WH250 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes. Uses Type 17 tips, popular in the HVAC/Plumbing industry.



KL250-P-TU



KL250-C-TU

Use 20 cu.ft (R) Oxygen cylinder and 10 cu.ft. (MC) Acetylene cylinder

UNITIZED
DISPLAY
PACKAGING



CUTTING



WELDING

Cutting Capacity: 1/2" with supplied tip; 3" with optional tips [See pg. 14]

Welding Capacity: 3/32" with supplied tip; 1 1/4" with optional tips [See pg. 26]

KL250-P and KL250-C: Cylinders not included.

KL250-P-TU and KL250-C-TU: Cylinders and outfits are unitized, packed in one master carton**

UNIWELD TOTE MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 2-60 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	CARRYING STANDS/ CYLINDERS	ACCESSORIES
PART# KL250-P UPC# 82006	WH250	CA250	3-101-0	TYPE 17 1	RSOB CGA540	RSMC2B CGA200	#511 PLASTIC	TWIN HOSE 10' 3/16" "B" GOGGLES & LIGHTER
PART# KL250-C UPC# 82007	WH250	CA250	3-101-0	TYPE 17 1	RSOB CGA540	RSMC2B CGA200	#500S STEEL	TWIN HOSE 10' 3/16" "B" GOGGLES & LIGHTER
PART# KL250-P-TU UPC# 82009	WH250	CA250	3-101-0	TYPE 17 1	RSOB CGA540	RSMC2B CGA200	#511 PLASTIC MC/R	TWIN HOSE 10' 3/16" "B" GOGGLES & LIGHTER
PART# KL250-C-TU UPC# 82051	WH250	CA250	3-101-0	TYPE 17 1	RSOB CGA540	RSMC2B CGA200	#500S STEEL MC/R	TWIN HOSE 10' 3/16" "B" GOGGLES & LIGHTER

*Dual scale gauges available upon request [See pg. 98]. **Cylinders shipped empty.

Add (FB) to Part# to include U.L. Listed Flashback Arrestors on the Welding Handle. [See pg. 106]

780A
TUBE MIX

FORGED BRASS HEAD AND BODY

NICKEL ALLOY GAS TUBES FOR MAXIMUM STRENGTH AND HEAT DISSIPATION

PUSHROD TYPE CUTTING OXYGEN VALVE THAT'S EASY TO REPAIR

STAINLESS STEEL OXYGEN CUTTING LEVER

INTERNAL HEAVY DUTY ONE-PIECE COPPER UNIVERSAL GAS MIXER

HAND TIGHT NUT WITH TWO O-RING SEALS

STAINLESS STEEL BALL POINT VALVES WITH TEFLON® PACKING

V-STYLE TIP SEATING AREA 2 TAPERED SEATS

HEAD ANGLES

90°

75°

180°

****3 SEAT STYLE TIP MIX**

[See 71 Handle pg. 11]

PART# UPC#	780A 02401	780 02400	780B 02402	3-780A 02451	3-780 02450	CA350 02100	CA350B 02103	CA250 02000	CA550 02600	CA100** 02700
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LENGTH	10½"	10½"	10½"	10½"	10½"	8"	8"	8"	8"	7"
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WEIGHT	32 OZ.	32 OZ.	32 OZ.	31 OZ.	31 OZ.	15 OZ.	15 OZ.	15 OZ.	15 OZ.	10.8 OZ.
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HEAD ANGLE	90°	75°	180°	90°	75°	90°	180°	90°	90°	90°
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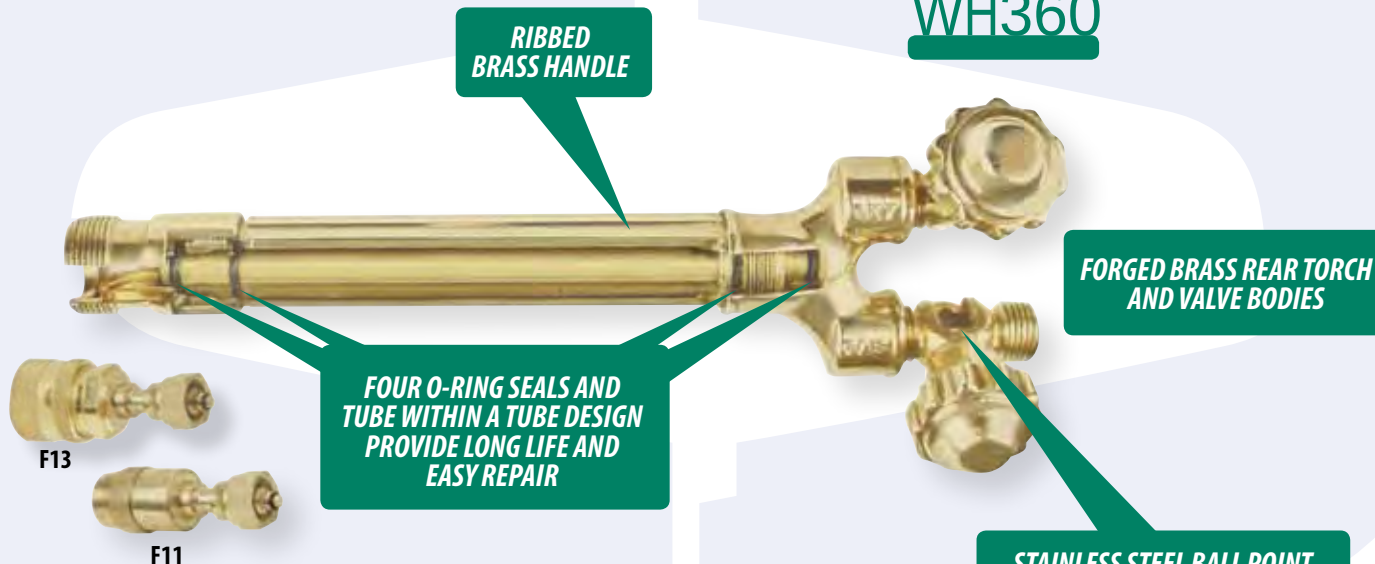
CUTTING CAPACITY*	8"	8"	8"	7"	7"	6"	6"	6"	2"	2"
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ACETYLENE TIP SERIES 1-101	1-101	1-101	1-101	3-101	3-101	3-101	3-101	3-101	5-101	CT100
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COMPATIBLE WELDING HANDLES	WH360 WH360L 72L9 72L11	WH360 WH360L 72L9 72L11	WH360 WH360L 72L9 72L11	WH360 WH360L 72L9 72L11	WH360 WH360L 72L9 72L11	WH350	WH350	WH250 WH550 71	WH550 WH250 71	WH550 WH250 71
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*SEE PAGES 14-24, 63 FOR ALL COMPATIBLE CUTTING TIPS AND SPECIAL PURPOSE TIP SELECTION

WH360



The Uniweld Gas/Air Adaptor is used for brazing and soldering when no oxygen is required with Twister® or soft flame tips. [See Uniweld HVAC/R Catalog].

Use an F11 Adaptor to convert the 71, WH250 and WH550 handles [Screw Connect].

Use an F13 Adaptor to convert the 71, WH250 and WH550 handles [Quick Connect].

Use an F12 Adaptor for the WH350 handle [Screw Connect].



PART# UPC#	WH360 00150	WH360L 00151	72L9** 00350	72L11** 00351	WH350 00100	WH250 00001	WH550 00550	71** 00300
LENGTH	9"	11"	8 ³ / ₄ "	11"	7 ¹ / ₂ "	7 ¹ / ₂ "	7 ¹ / ₂ "	6"
WEIGHT	18 OZ.	24 OZ.	18 OZ.	23 OZ.	13.2 OZ.	13.1 OZ.	12.7 OZ.	6.4 OZ.
HOSE CONNECTION	"B" ⁹ / ₁₆ "-18 THREAD						"A" ³ / ₈ "-24 THREAD	
†FLASHBACK ARRESTORS	"B" FLASHBACK ARRESTORS						"A" FLASHBACK ARRESTORS	
WELDING CAPACITY*	3"	3"	3"	3"	1 ¹ / ₄ "	1 ¹ / ₄ "	1 ¹ / ₄ "	1 ¹ / ₄ "
COMPATIBLE CUTTING ATTACHMENTS	780A(90°) 3-780A(90°) 780(75°) 3-780(75°) 780B(180°)	780A(90°) 3-780A(90°) 780(75°) 3-780(75°) 780B(180°)	780A(90°) 3-780A(90°) 780(75°) 3-780(75°) 780B(180°)	780A(90°) 3-780A(90°) 780(75°) 3-780(75°) 780B(180°)	CA350(90°) CA350B(180°)	CA250(90°) CA550(90°) CA100(90°)	CA550(90°) CA250(90°) CA100(90°)	CA550(90°) CA250(90°) CA100(90°)

** HAVE TWO SILVER BRAZED TUBES INSIDE A VENTED BRASS HANDLE

*SEE PAGES 26-31 FOR WELDING, BRAZING, HEATING TIPS and MIXER INFORMATION.

†Add (FB) to Part# to include U.L. Listed Flashback Arrestors on the Welding Handle. [See pg. 106]

830-21
TUBE MIX

CNC
FORGED
BRASS HEAD

STAINLESS STEEL
ALLOY GAS TUBES
FOR MAXIMUM
STRENGTH AND
HEAT DISSIPATION

HEAVY DUTY RIBBED
ERGONOMIC HANDLE

STAINLESS STEEL
OXYGEN CUTTING LEVER

FORGED
BRASS BODY

PRECISION
SEATS

INTERNAL
HEAVY DUTY
UNIVERSAL
GAS MIXER
FOR USE WITH
ALL FUEL GASES

STAINLESS STEEL BALL POINT
VALVES WITH TEFLON® PACKING
PROMOTES DURABILITY AND
POSITIVE SHUT-OFF

FIELD
REPLACEABLE
EXTERNAL
CHECK VALVES†

HEAD
ANGLES



**PLAY IT
SAFE™**
ADD
FLASHBACK
ARRESTORS
(SEE BELOW)

HEAD ANGLE	PART#	830-17	830-21	830-36	830-48	850-17	850-21	850-36	850-48	EC72740A	EC72780A
90°	UPC#	04000	04001	04002	04003	04100	04101	04102	04103	04204	04200
HEAD ANGLE	PART#	831-17	831-21	831-36	831-48		851-21	851-36	851-48	EC72740	EC72780
75°	UPC#	04010	04011	04012	04013		04111	04112	04113	04205	04201
HEAD ANGLE	PART#		832-21	832-36	832-48		852-21	852-36	852-48		
180°	UPC#	-	04021	04022	04023		04121	04122	04123		
TORCH LENGTH		17"	21"	36"	48"	17"	21"	36"	48"	16"	16"
WEIGHT		52 OZ.	58 OZ.	71 OZ.	84 OZ.	52 OZ.	58 OZ.	71 OZ.	84 OZ.	38 OZ.	38 OZ.
LEVER POSITION		TOP REAR	TOP REAR	TOP REAR	TOP REAR	BOT'M REAR	BOT'M REAR	BOT'M REAR	BOT'M REAR	TOP CENTER	TOP CENTER
CUTTING CAPACITY*		12"	12"	12"	12"	12"	12"	12"	12"	7"	8"
ACETYLENE TIP SERIES		1-101	1-101	1-101	1-101	1-101	1-101	1-101	1-101	3-101	1-101

*SEE PAGES 14-24 FOR ALL GASES CUTTING TIPS and
SPECIAL PURPOSE TIP SELECTION

†Hand Cutting Torches come with Check Valves installed. Add (FB) to Part# to substitute
U.L. Listed Flashback Arrestors for Check Valves. Uniweld Check Valves & Flashback
Arrestors are both field replaceable [See pg. 106]



TORCHES MACHINE CUTTING

STYLE

NEW! 68 SERIES
TUBE MIX

HEAVY DUTY BRASS
STANDARD 1 3/8" BARREL

PRECISION
REAMED
SEATS

FOUR POSITION RACK
ADJUSTMENT 90° APART
[OPTIONAL]

STAINLESS STEEL BALL
POINT PREHEAT VALVES

QUICK OPENING
OXYGEN
CUTTING LEVER

Use with optional Preheat Adaptor: Part#15AR (acetylene), 15PR (propane)

15AR

68

#6700BA The Uniweld adjustable head Bevel Cutting Adaptor with calibrated dial lets you set angles from 0° to 90° to cut bevels without tilting the Machine Torch.



6700BA

68 SERIES MULTIGAS MACHINE TORCHES

PART# UPC#	68-6 04361	68 04360
BARREL LENGTH	6"	10"
TWO HOSE W/LEVER ACTION OXYGEN CUTTING VALVE	YES	YES
CUTTING CAPACITY*	8"	8"

MUST ORDER RACK SEPARATELY

68 MACHINE TORCH SERIES RACKS

PART# UPC#	68164-6A 04370	68164-10A 04371
RACK LENGTH	6" (2 screws)	10" (3 screws)

68164-10A

67 MACHINE TORCH SERIES REPLACEMENT RACKS

PART# UPC#	6250 04930	6250-2 04931
RACK LENGTH	6" (2 screws)	10" (3 screws)

6250-2

TRAKUTTER™
OXY/FUEL

UCM200T | UCM200
UCM220T | UCM220
TRACKS INCLUDED | TRACKS NOT INCLUDED

The Uniweld TRAKUTTER is a portable track-style machine that can operate on its own track for precision straight line cutting.

CUTTING MACHINE with 32 pitch pinion torch holder designed for 1 3/8" (35mm) barrel diameter. Fits Uniweld machine torches; Series 63, 64 and 68

- Power: AC110V or 220V, 50/60 Hz
- Large adjustment knobs and wing nuts for lock-down
- 3' manifold to torch twin hose and two hose manifold block
- Additional hoses required Torch not included
- Speed Range: 6" (150mm) per/min to 31" (800mm) per/min.
- Racking distance up to 8" from the machine body
- Single cone speed changer; variable speed in both forward and reverse.
- 6 feet of track included with UCM200T and UCM220T.
- 16" power cord

OPTIONAL TRACK SECTION

PART# CMTR3X2 UPC# 04352

3' track sections (set of 2; optional) for line cutting. Track sections can be securely interlocked for added length.

*SEE PAGES 14-24 FOR
ALL GASES CUTTING TIPS.

ORDER
TRAKUTTER
MACHINE
WITHOUT TRACK.
PART# UCM200
UPC# 04350
PART# UCM220
UPC# 04351

PART# UCM200T
110V-50/60Hz
UPC# 04355

PART# UCM220T
220V-50/60Hz
UPC# 04356



ACETYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	GENERAL PURPOSE CUTTING MACHINE CUTTING



1-101
[ONE PIECE]

TIP SERIES		ONE PIECE						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
1-101-000	1/8"	71	20/25	20/25	5	5	28/32	.04
1-101-00	1/4"	67	20/25	30/35	5	6	27/30	.05
1-101-0	3/8"	60	25/30	55/60	5	8	24/28	.06
1-101-0	1/2"	60	30/35	60/65	5	10	20/24	.06
1-101-1	3/4"	56	30/35	80/85	5	13	17/21	.07
1-101-2	1"	53	35/40	140/150	6	16	15/19	.09
1-101-2	1 1/2"	53	40/45	150/160	7	18	13/17	.09
1-101-3	2"	50	40/45	210/225	9	22	12/15	.11
1-101-3	2 1/2"	50	45/50	225/240	10	26	10/13	.11
1-101-4	3"	45	40/50	270/320	10	30	9/12	.12
1-101-5	4"	39	45/55	390/425	12	34	8/11	.15
1-101-5	5"	39	50/55	425/450	13	38	7/9	.15
1-101-6	6"	31	45/55	500/600	13	44	6/8	.18
1-101-6	8"	31	50/80	500/600	14	50	5/6	.19
1-101-7	10"	28	50/80	700/850	15	56	4/5	.34
1-101-8	12"	20	55/85	900/1000	15	62	3/5	.41

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	GENERAL CUTTING CLOSE QUARTERS HAND AND MACHINE CUTTING



1-101-30 (30°)
[ONE PIECE]

TIP SERIES		ONE PIECE						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
1-101-30-0	3/8"	60	25/30	55/60	5	8	24/28	.06
1-101-30-0	1/2"	60	30/35	60/65	5	10	20/24	.06
1-101-30-1	3/4"	56	30/35	80/85	5	13	17/21	.07
1-101-30-2	1"	53	35/40	140/150	6	16	15/19	.09
1-101-30-2	1 1/2"	53	40/45	150/160	7	18	13/17	.09

TECH
TIP

Always use the proper size tip for the job. Never use an oversized tip and then cut the fuel and oxygen back to work on a small job. This may cause tip damage, overheating, backfire and flashback.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA250 CA350 3-780	EC72740	N/A	GENERAL PURPOSE CUTTING



3-101
[ONE PIECE]

TIP SERIES		ONE PIECE						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
3-101-000	1/8"	71	20/25	20/25	5	5	28/32	.04
3-101-00	1/4"	67	20/25	30/35	5	6	27/30	.05
3-101-0	3/8"	60	25/30	55/60	5	8	24/28	.06
3-101-0	1/2"	60	30/35	60/65	5	10	20/24	.06
3-101-1	3/4"	56	30/35	80/85	5	13	17/21	.07
3-101-2	1"	53	35/40	140/150	6	16	15/19	.09
3-101-2	1 1/2"	53	40/45	150/160	7	18	13/17	.09
3-101-3	2"	50	40/45	210/225	9	22	12/15	.11
3-101-3	2 1/2"	50	45/50	225/240	10	26	10/13	.11
3-101-4	3"	45	40/50	270/320	10	30	9/12	.12
3-101-5	4"	39	45/55	390/425	12	34	8/11	.15
3-101-5	5"	39	50/55	425/450	13	38	7/9	.15

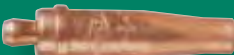
NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.



TIPS CUTTING

STYLE

ACETYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA550	N/A	N/A	GENERAL PURPOSE CUTTING
			
5-101 [ONE PIECE]			

TIP SERIES		ONE PIECE CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	PSIG	SCFH	
5-101-00	1/4"	67	20/25	30/35	5	6	27/30 .05
5-101-0	3/8"	60	25/30	55/60	5	8	24/28 .06
5-101-0	1/2"	60	30/35	60/65	5	10	20/24 .06
5-101-1	3/4"	56	30/35	80/85	5	13	17/21 .07
5-101-2	1"	53	35/40	140/150	6	16	15/19 .09
5-101-2	1 1/2"	53	40/45	150/160	7	18	13/17 .09

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	REMOVING BOILER TUBES
			WORK IN CONFINED SPACES
1-108 [ONE PIECE]			
			

TIP SERIES		ONE PIECE CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	PSIG	SCFH	
1-108-0	3/8"	60	25/30	55/60	5	8	24/28 .06
1-108-0	1/2"	60	30/35	60/65	5	10	20/24 .06
1-108-1	3/4"	56	30/35	80/85	5	13	17/21 .07
1-108-2	1"	53	35/40	140/150	6	16	15/19 .09
1-108-2	1 1/2"	53	40/45	150/160	7	18	13/17 .09
1-108-3	2"	50	40/45	210/225	9	22	12/15 .11
1-108-3	2 1/2"	50	45/50	225/240	10	26	10/13 .11
1-108-4	3"	45	40/50	270/320	10	30	9/12 .12

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA250, CA350 3-780	EC72740	N/A	REMOVING BOILER TUBES TIGHT WORK SPACES
			
3-108 [ONE PIECE]			

TIP SERIES		ONE PIECE CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	PSIG	SCFH	
3-108-2	1"	53	35/40	140/150	6	16	15/19 .09
3-108-2	1 1/2"	53	40/45	150/160	7	18	13/17 .09

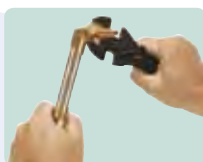
TECH TIP The preheat flame ports and the cutting oxygen orifice are sized for the thickness range of metal that the tip is designed to cut.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	N/A	DRAG TYPE FOR HAND CUTTING AND TRIMMING
			
1-110 [ONE PIECE]			

TIP SERIES		ONE PIECE CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	PSIG	SCFH	
1-110-0	3/8"	60	25/30	55/60	5	8	24/28 .06
1-110-0	1/2"	60	30/35	60/65	5	10	20/24 .06
1-110-2	1"	53	35/40	140/150	6	16	15/19 .09
1-110-2	1 1/2"	53	40/45	150/160	7	18	13/17 .09

TECH TIP Cutting tips are precision machined copper-alloy parts of various designs and sizes. They are held in the cutting torch by a tip nut.

TECH TIP



Cutting tips have a metal to metal seating, so be sure to tighten the tip nut at 9 lbs. of torque. Do not overtighten.

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.

ACETYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780 	830, 850 EC72780	68 SERIES	RIVET HEADS
			TRIMMING CUTTING
1-112 [ONE PIECE]			

TIP SERIES		ONE PIECE CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	PSIG	SCFH	
1-112-0	3/8"	60	25/30	55/60	5	8	24/28
1-112-0	1/2"	60	30/35	60/65	5	10	20/24
1-112-2	1"	53	35/40	140/150	6	16	15/19
1-112-2	1 1/2"	53	40/45	150/160	7	18	13/17
1-112-4	3"	45	40/50	270/320	10	30	9/12
							.12

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA250 CA350 3-780	EC72740	N/A	CUTTING CLOSE TO BULKHEADS RIVET HEADS
			
3-112 [ONE PIECE]			

TIP SERIES		ONE PIECE CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	PSIG	SCFH	
3-112-1	3/4"	56	30/35	80/85	5	13	17/21
3-112-2	1"	53	35/40	140/150	6	16	15/19
3-112-2	1 1/2"	53	40/45	150/160	7	18	13/17
							.09

TECH TIP Acetylene cutting tips are usually one piece with drilled and swaged flame ports.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	N/A	GOUGING REMOVING WELDS
1-118 [ONE PIECE]			
 Sizes 0-4		 Sizes 6-8	

TIP SERIES		ONE PIECE CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	PSIG	SCFH	
1-118-0	3/8"	60	25/30	55/60	5	8	24/28
1-118-0	1/2"	60	30/35	60/65	5	10	20/24
1-118-2	1"	53	35/40	140/150	6	16	15/19
1-118-2	1 1/2"	53	40/45	150/160	7	18	13/17
1-118-4	3"	45	40/50	270/320	10	30	9/12
1-118-6	6"	31	45/55	500/600	13	44	6/8
1-118-6	8"	31	50/80	500/600	14	50	5/6
1-118-8	12"	20	55/85	900/1000	15	62	3/5
							.41

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA250 CA350 3-780	EC72740	N/A	GOUGING RIVET WASHING WELD PREP
			
3-118 [ONE PIECE]			

TIP SERIES		ONE PIECE CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	PSIG	SCFH	
3-118-2	1"	53	35/40	140/150	6	16	15/19
3-118-2	1 1/2"	53	40/45	150/160	7	18	13/17
							.09

TECH TIP The torch cutting tip contains a number of preheat flame ports and a center passage for the cutting oxygen. The preheat flames are used to heat the metal to a temperature where the metal will react with the cutting oxygen.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780A 	830, 850 EC72780	68 SERIES 	GENERAL CUTTING
1-101L [ONE PIECE]-10" Length			

TIP SERIES		ONE PIECE CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	PSIG	SCFH	
1-101L-4	3"	45	40/50	270/320	10	30	9/12
1-101L-6	8"	31	50/80	500/600	14	50	5/6
							.19



TIPS CUTTING

STYLE

ACETYLENE

USE WITH SERIES			APPLICATION	TIP SERIES	SPECIALTY HEATING ASSEMBLY					
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	SPECIALTY HEATING TIP TURNS CUTTING TORCH INTO HEATING TORCH	PREHEAT OXYGEN		ACETYLENE		BTUs
						PSIG	SCFH	PSIG	SCFH	
See Note	830, 850 EC72780	N/A	MULTI-FLAME HEATING WITH MAX. TORCH PRESSURE	1-126-6		70/80	15/44	12/15	14/40	20,500/58,800
	1-126 [TWO PIECE]			1-126-8		70/80	33/88	12/15	30/80	44,000/117,500
				1-126-10*		70/80	40/110	12/15	40/100	58,800/147,000
				1-126-12*		70/80	66/165	12/15	60/150	88,200/220,500

NOTE: Use sizes #6 and #8 with cutting attachment 780 and EC72780 only. Use sizes #10 and #12 with 830 and 850 series only. *Use 3/8" hose only, Manifold Acetylene Cylinders

NATURAL GAS/PROPANE

USE WITH SERIES			APPLICATION	TIP SERIES TWO PIECE										
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH		
							PSIG	SCFH	PSIG	SCFH				
 GPN [TWO PIECE] 	780	830, 850 EC72780	68 SERIES	GENERAL PURPOSE	GPN-000	1/8"	71	20/25	12/15	5	5/6	24/28	.04	
						GPN-00	1/4"	67	20/25	22/26	5	5/7	21/25	.05
						GPN-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06
						GPN-0	1/2"	60	30/35	50/55	5	8/10	20/24	.06
						GPN-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08
						GPN-2	1"	53	35/40	115/125	8	12/15	14/18	.09
						GPN-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09
						GPN-3	2"	50	40/45	150/175	9	14/18	10/14	.10
						GPN-3	2 1/2"	50	45/50	175/200	10	14/18	9/12	.11
						GPN-4	3"	45	45/50	210/250	12	16/20	8/11	.12
						GPN-5	4"	39	45/55	300/360	12	20/30	7/10	.15
						GPN-5	5"	39	50/55	300/360	12	20/30	6/9	.15
						GPN-6	6"	31	45/55	400/500	15	25/35	5/7	.17
						GPN-6	8"	31	55/65	450/500	15	25/35	4/6	.18
						GPN-8	12"	20	60/70	750/850	14	25/120	3/4	.41

TECH TIP

When a piece is cut by an oxygen cutting process, a narrow width of metal is progressively removed. The width of the cut is called a Kerf. Kerf width is a result of the type of tip used, the tip size, the flow rate of oxygen and preheating gases and the speed of cutting.

USE WITH SERIES			APPLICATION	TIP SERIES TWO PIECE								
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
							PSIG	SCFH	PSIG	SCFH		
CA250, CA350 3-780	EC72740	N/A	GENERAL PURPOSE CUTTING	3-GPN-00	1/4"	67	20/25	22/26	5	5/7	21/25	.05
	3-GPN [TWO PIECE]			3-GPN-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06
				3-GPN-0	1/2"	60	30/35	50/55	5	8/10	20/24	.06
				3-GPN-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08
				3-GPN-2	1"	53	35/40	115/125	8	12/15	14/18	.09
				3-GPN-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09
				3-GPN-3	2"	50	40/45	150/175	9	14/18	10/14	.10
				3-GPN-3	2 1/2"	50	45/50	175/200	10	14/18	9/12	.11
				3-GPN-4	3"	45	45/50	210/250	12	16/20	8/11	.12

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.

NATURAL GAS/PROPANE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	



MTHN
[TWO PIECE]



TIP SERIES		TWO PIECE CUTTING OXYGEN							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH	

MTHN-00	1/4"	N/A	85/98	68/75	5	12/65	20/30	.05	
MTHN-00	3/8"	N/A	85/95	68/75	5	12/65	22/29	.05	
MTHN-0	1/2"	N/A	85/95	110/120	5	12/65	20/28	.06	
MTHN-0	3/4"	N/A	85/95	110/120	5	12/65	18/26	.06	
MTHN-1	1"	N/A	85/95	145/160	6	12/65	17/24	.07	
MTHN-1	1 1/2"	N/A	85/95	145/160	7	12/65	12/16	.07	
MTHN-2	2"	N/A	85/95	230/250	9	12/65	12/15	.09	
MTHN-2	2 1/2"	N/A	85/95	230/250	10	12/65	10/13	.09	
MTHN-2	3"	N/A	85/95	230/250	10	12/65	9/12	.09	
MTHN-3	4"	N/A	85/95	285/320	12	12/65	7/10	.11	
MTHN-3	5"	N/A	85/95	285/320	13	12/65	6/8	.11	
MTHN-3	6"	N/A	85/95	285/320	13	12/65	5/7	.11	
MTHN-4	8"	N/A	85/95	390/450	14	12/65	4/6	.14	
MTHN-5	10"	N/A	85/95	670/720	15	12/65	3/5	.18	

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	



HPN
[TWO PIECE]



TIP SERIES		TWO PIECE CUTTING OXYGEN							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH	

HPN-1	3/4"	56	30/35	70/80	6	22/110	15/20	.08	
HPN-2	1"	53	35/40	115/125	6	22/110	14/18	.09	
HPN-2	1 1/2"	53	40/45	125/135	8	22/110	12/16	.09	
HPN-3	2"	50	40/45	150/175	8	22/110	10/14	.10	
HPN-3	2 1/2"	50	45/50	175/240	9	22/110	9/12	.10	
HPN-4	3"	45	45/50	210/250	9	22/110	8/11	.12	
HPN-5	4"	39	45/55	300/360	9	22/110	7/10	.14	
HPN-5	5"	39	50/55	330/360	10	22/110	6/9	.14	
HPN-6	6"	31	45/55	400/500	10	22/110	5/7	.17	
HPN-6	8"	31	55/65	450/500	12	22/110	4/6	.18	
HPN-8	12"	20	60/70	750/850	14	25/120	3/4	.41	
HPN-10	13"	13	45/55	1000/1200	16	25/120	2/4	N/A	
HPN-12	14"	2	45/55	1150/1350	18	30/130	2/3	N/A	

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	



1-200
[ONE PIECE]



TIP SERIES		ONE PIECE CUTTING OXYGEN							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH	

1-200-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06	
1-200-0	1/2"	60	30/35	50/55	5	8/10	18/22	.06	
1-200-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08	
1-200-2	1"	53	35/40	115/125	8	12/15	14/18	.09	
1-200-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09	
1-200-3	2"	50	40/45	150/175	9	14/18	10/14	.10	
1-200-3	2 1/2"	50	45/50	175/200	10	14/18	9/12	.11	
1-200-4	3"	45	45/50	210/250	12	16/20	8/11	.12	
1-200-5	4"	39	45/55	300/360	12	20/30	7/10	.15	
1-200-5	5"	39	50/55	300/360	12	20/30	6/9	.15	

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.



TIPS CUTTING

STYLE

NATURAL GAS/PROPANE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA550	N/A	N/A	GENERAL PURPOSE CUTTING



5-200
[ONE PIECE]



TIP SERIES		ONE PIECE							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH	
			PSIG	SCFH	PSIG	SCFH			
5-200-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06	
5-200-0	1/2"	60	30/35	50/55	5	8/10	18/22	.06	
5-200-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08	
5-200-2	1"	53	35/40	115/125	8	12/15	14/18	.09	
5-200-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09	

TECH TIP

For proper combustion during cutting, propane (C₃H₈) requires 4 to 4 1/2 times its volume of preheat oxygen.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	RIVET REMOVAL

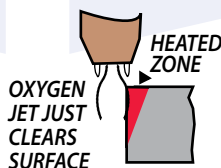


1-207 [ONE PIECE]



TIP SERIES		ONE PIECE							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH	
			PSIG	SCFH	PSIG	SCFH			
1-207-4	3"	45	45/50	210/250	12	16/20	8/11	.12	

TECH TIP



To start a cut on an edge, place the preheat flames halfway over the edge, holding the end of the flame cones 1/8" above the surface of the material to be cut. When the top corner reaches a reddish yellow, the cutting oxygen valve is opened and the cutting process begins.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	BULKHEADS RIVET HEADS MACHINE CUTTING



1-212
[ONE PIECE]



TIP SERIES		ONE PIECE							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH	
			PSIG	SCFH	PSIG	SCFH			
1-212-2	1"	53	35/40	115/125	8	12/15	14/18	.09	
1-212-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09	

TECH TIP

Backfire is the momentary retrogression of the flame into the torch that is usually signaled by a popping sound. The flame may either extinguish or re-ignite at the end of the tip. Sustained backfire (flashback) is the retrogression of flame into the torch with continued burning inside the torch. This event can be identified by an initial popping sound followed by a squealing or hissing sound caused by continued burning inside the torch. When it occurs, the torch oxygen valve should be turned off immediately; then the fuel gas valve.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	SCRAPPING GOUGING WELD REMOVAL



1-234
[ONE PIECE]



NOTE: Minimum oxygen requirement: 90 P.S.I.G.

TIP SERIES		ONE PIECE							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH	
			PSIG	SCFH	PSIG	SCFH			
1-234-2	1"	53	35/40	115/125	8	12/15	14/18	.09	
1-234-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09	

TECH TIP

Flashback is the return of the flame through the torch and into the hose and/or regulator and can potentially cause an explosion at any point in the system. It may also reach the cylinder. This event is caused by oxygen and fuel mixing in one side of the oxy-fuel system and subsequently being ignited at the tip and by reverse flow of one gas into the other side of the system. When it occurs, the torch oxygen valve should be turned off immediately; then the fuel gas valve.

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.

NATURAL GAS/PROPANE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780 	830, 850 EC72780	68 SERIES	GOUGING WELD REMOVAL RIVET WASHING

1-218 [ONE PIECE]

TIP SERIES		ONE PIECE CUTTING						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	OXYGEN PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH
1-218-4	3"	45	45/50	210/250	9	22/110	8/11	.12
1-218-6	6"	31	45/55	400/500	10	22/110	5/7	.17
1-218-6	8"	31	55/65	450/500	12	22/110	4/6	.18
1-218-8	12"	20	60/70	750/850	14	25/120	3/4	.41
1-218-10	13"	13	45/55	1000/1200	16	25/120	2/4	-

TECH TIP

Oxygen used for cutting should have a purity of 99.5% or higher. Lower purity reduces the efficiency of the cutting operation.



TECH TIP

For a plate thickness of 1/2" or more, the cutting tip should be held perpendicular to the plate. When cutting a thinner plate, the tip can be tilted in the direction of the cut.

Tilting increases the cutting speed and helps prevent slag from freezing across the kerf.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
See Note	830, 850	N/A	MULTIFLAME HEATING AT MAXIMUM PRESSURE



(MFTN)

1-209N [ONE PIECE]



TIP SERIES		SPECIALTY HEATING ASSEMBLY		
		SPECIALTY HEATING TIP TURNS CUTTING TORCH INTO		
PART #		A MULTI FLAME HEATING TORCH	OXYGEN PSIG	FUEL GAS PSIG
1-209N-10			70/80	12/15
1-209N-12			70/80	12/15

NOTE: Not for use with cutting attachments

TECH TIP

Natural gas produces a lower flame temperature and lower heating efficiency. Specialty tips, designed to provide a heavy preheat flame, should be considered.

PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	SCRAP AND BEVEL CUTTING



HPP [TWO PIECE]

TIP SERIES		TWO PIECE CUTTING						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	OXYGEN PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH
HPP-1	3/4"	56	30/35	70/80	6	22/110	15/20	.08
HPP-2	1"	53	35/40	115/125	6	22/110	14/18	.09
HPP-2	1 1/2"	53	40/45	125/135	8	22/110	12/16	.09
HPP-3	2"	50	40/45	150/175	8	22/110	10/14	.10
HPP-3	2 1/2"	50	45/50	175/240	9	22/110	9/12	.10
HPP-4	3"	45	45/50	210/250	9	22/110	8/11	.12
HPP-5	4"	39	45/55	300/360	9	22/110	7/10	.14
HPP-5	5"	39	50/55	330/360	10	22/110	6/9	.14

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.



TIPS CUTTING

STYLE

MAP//Pro™ PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	GENERAL PURPOSE AND MACHINE CUTTING
			
GPP [TWO PIECE]			

TIP SERIES		TWO PIECE CUTTING OXYGEN							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH	
GPP-000	1/8"	71	20/25	12/15	5	5/6	24/28	.04	
GPP-00	1/4"	67	20/25	22/26	5	5/7	21/25	.05	
GPP-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06	
GPP-0	1/2"	60	30/35	50/55	5	8/10	20/24	.06	
GPP-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08	
GPP-2	1"	53	35/40	115/125	8	12/15	14/18	.09	
GPP-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09	
GPP-3	2"	50	40/45	150/175	9	14/18	10/14	.10	
GPP-3	2 1/2"	50	45/50	175/200	10	14/18	9/12	.11	
GPP-4	3"	45	45/50	210/250	12	16/20	8/11	.12	
GPP-5	4"	39	45/55	300/360	12	20/30	7/10	.15	
GPP-5	5"	39	50/55	300/360	12	20/30	6/9	.15	
GPP-6	6"	31	45/55	400/500	15	25/35	5/7	.17	
GPP-6	8"	31	55/65	450/500	15	25/35	4/6	.18	
GPP-8	12"	20	60/70	750/850	14	25/120	3/4	.41	

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA250 CA350 3-780	830, 850 EC72780	N/A	GENERAL PURPOSE AND MACHINE CUTTING
 3-GPP [TWO PIECE] 			

TIP SERIES		TWO PIECE CUTTING OXYGEN							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH	
3-GPP-00	1/4"	67	20/25	22/26	5	5/7	21/25	.05	
3-GPP-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06	
3-GPP-0	1/2"	60	30/35	50/55	5	8/10	20/24	.06	
3-GPP-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08	
3-GPP-2	1"	53	35/40	115/125	8	12/15	14/18	.09	
3-GPP-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09	
3-GPP-3	2"	50	40/45	150/175	9	14/18	10/14	.10	
3-GPP-3	2 1/2"	50	45/50	175/200	10	14/18	9/12	.11	
3-GPP-4	3"	45	45/50	210/250	12	16/20	8/11	.12	

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	GENERAL PURPOSE AND MACHINE CUTTING
			
MTHP [TWO PIECE]			

TIP SERIES		TWO PIECE CUTTING OXYGEN							
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH	
MTHP-00	1/4"	N/A	85/95	68/75	5	12/65	20/30	.05	
MTHP-00	3/8"	N/A	85/95	68/75	5	12/65	22/29	.05	
MTHP-0	1/2"	N/A	85/95	110/120	5	12/65	20/28	.06	
MTHP-0	3/4"	N/A	85/95	110/120	5	12/65	18/26	.06	
MTHP-1	1"	N/A	85/95	145/160	6	12/65	17/24	.07	
MTHP-1	1 1/2"	N/A	85/95	145/160	7	12/65	12/16	.07	
MTHP-2	2"	N/A	85/95	230/250	9	12/65	12/15	.09	
MTHP-2	2 1/2"	N/A	85/95	230/250	10	12/65	10/13	.09	
MTHP-2	3"	N/A	85/95	230/250	10	12/65	9/12	.09	
MTHP-3	4"	N/A	85/95	285/320	12	12/65	7/10	.11	
MTHP-3	5"	N/A	85/95	285/320	13	12/65	6/8	.11	
MTHP-3	6"	N/A	85/95	285/320	13	12/65	5/7	.11	
MTHP-4	8"	N/A	85/95	390/450	14	12/65	4/6	.14	
MTHP-5	10"	N/A	85/95	670/720	15	12/65	3/5	.18	

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.

MAP/Pro™/PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

CA550 N/A N/A



GENERAL
PURPOSE
CUTTING



5-200M [ONE PIECE]

TIP SERIES		ONE PIECE CUTTING OXYGEN						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH

5-200M-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06
5-200M-0	1/2"	60	30/35	50/55	5	8/10	18/22	.06
5-200M-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08
5-200M-2	1"	53	35/40	115/125	8	12/15	14/18	.09
5-200M-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09

TECH
TIP

One volume of propylene requires 3.6 volumes of torch supplied oxygen for maximum flame temperature.

LIQUID AIR® FUEL GAS/MAP/Pro™/PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

780 830, 850 EC72780 68 SERIES



GPM
[TWO PIECE]



GENERAL
PURPOSE
MACHINE
CUTTING

TIP SERIES		TWO PIECE CUTTING OXYGEN						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH

GPM-000	1/8"	71	20/25	12/15	5	5/6	24/28	.04
GPM-00	1/4"	67	20/25	22/26	5	5/7	21/25	.05
GPM-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06
GPM-0	1/2"	60	30/35	50/55	5	8/10	20/24	.06
GPM-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08
GPM-2	1"	53	35/40	115/125	8	12/15	14/18	.09
GPM-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09
GPM-3	2"	50	40/45	150/175	9	14/18	10/14	.10
GPM-3	2 1/2"	50	45/50	175/200	10	14/18	9/12	.11
GPM-4	3"	45	45/50	210/250	12	16/20	8/11	.12
GPM-5	4"	39	45/55	300/360	12	20/30	7/10	.15
GPM-5	5"	39	50/55	300/360	12	20/30	6/9	.15
GPM-6	6"	31	45/55	400/500	15	25/35	5/7	.17
GPM-6	8"	31	55/65	450/500	15	25/35	4/6	.18
GPM-8	12"	20	60/70	750/850	14	25/120	3/4	.41

TECH
TIP

The advantages of oxyfuel gas cutting include: Equipment is very portable and can be used in the field. Cutting direction can be changed rapidly on a small radius during operation. Large plates can be cut rapidly in place by moving the torch rather than the plate. Equipment costs are lower than machine tools.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

CA250, CA350 EC72740 N/A 3-780



3-GPM
[TWO PIECE]

GENERAL
PURPOSE
CUTTING



TIP SERIES		TWO PIECE CUTTING OXYGEN						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	FUEL GAS PSIG	SCFH	SPEED I.P.M.	KERF WIDTH

3-GPM-00	1/4"	67	20/25	22/26	5	5/7	21/25	.05
3-GPM-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06
3-GPM-0	1/2"	60	30/35	50/55	5	8/10	20/24	.06
3-GPM-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08
3-GPM-2	1"	53	35/40	115/125	8	12/15	14/18	.09
3-GPM-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09

TECH
TIP

Safety first: Shade #5 tinted goggles, heavy duty welding/cutting gloves and protective clothing should always be used.

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.



TIPS CUTTING

STYLE

LIQUID AIR® FUEL GAS/MAP/Pro™/PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
N/A	N/A	68 SERIES	HIGH SPEED MACHINE CUTS TO 10"
 MTHM [TWO PIECE] 			

TIP SERIES		TWO PIECE						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
MTHM-00	1/4"	N/A	85/98	68/75	5	12/65	20/30	.05
MTHM-00	3/8"	N/A	85/95	68/75	5	12/65	22/29	.05
MTHM-0	1/2"	N/A	85/95	110/120	5	12/65	20/28	.06
MTHM-0	3/4"	N/A	85/95	110/120	5	12/65	18/26	.06
MTHM-1	1"	N/A	85/95	145/160	6	12/65	17/24	.07
MTHM-1	1 1/2"	N/A	85/95	145/160	7	12/65	12/16	.07
MTHM-2	2"	N/A	85/95	230/250	9	12/65	12/15	.09
MTHM-2	2 1/2"	N/A	85/95	230/250	10	12/65	10/13	.09
MTHM-2	3"	N/A	85/95	230/250	10	12/65	9/12	.09
MTHM-3	4"	N/A	85/95	285/320	12	12/65	7/10	.11
MTHM-3	5"	N/A	85/95	285/320	13	12/65	6/8	.11
MTHM-3	6"	N/A	85/95	285/320	13	12/65	5/7	.11
MTHM-4	8"	N/A	85/95	390/450	14	12/65	4/6	.14
MTHM-5	10"	N/A	85/95	670/720	15	12/65	3/5	.18

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC2780	68 SERIES	SCRAP CUTTING BEVELING PIERCING
			
HPM [TWO PIECE]			

TIP SERIES		TWO PIECE						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
HPM-4	3"	45	45/50	210/250	9	22/110	8/11	.12
HPM-6	6"	31	45/55	400/500	10	22/110	5/7	.17
HPM-6	8"	31	55/65	450/500	12	22/110	4/6	.18
HPM-8	12"	20	60/70	750/850	14	25/120	3/4	.41

TECH TIP

It is often necessary to begin a cut at some point other than on the edge of a piece of metal. This technique is known as **piercing**. Piercing requires a larger preheat flame than the one used for an edge start. The tip should be angled and lifted up as the cutting oxygen valve is opened. The torch is held stationary until the cutting jet pierces through the plate.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	GENERAL PURPOSE CUTTING
			
1-303MP [ONE PIECE] 			

TIP SERIES		ONE PIECE						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
1-303MP-00	1/4"	67	20/25	22/26	5	5/7	21/25	.05
1-303MP-0	3/8"	60	25/30	45/55	5	8/10	20/24	.06
1-303MP-0	1/2"	60	30/35	50/55	5	8/10	20/24	.06
1-303MP-1	3/4"	56	30/35	70/80	6	10/12	15/20	.08
1-303MP-2	1"	53	35/40	115/125	8	12/15	14/18	.09
1-303MP-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09
1-303MP-3	2"	50	40/45	150/175	9	14/18	10/14	.10
1-303MP-3	2 1/2"	50	45/50	175/200	10	14/18	9/12	.11
1-303MP-4	3"	45	45/50	210/250	12	16/20	8/11	.12
1-303MP-5	4"	39	45/55	300/360	12	20/30	7/10	.15
1-303MP-5	5"	39	50/55	300/360	12	20/30	6/9	.15
1-303MP-6	6"	31	45/55	400/500	15	25/35	5/7	.17
1-303MP-6	8"	31	55/65	450/500	15	25/35	4/6	.18

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.

LIQUID AIR® FUEL GAS/MAP/Pro™/PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	N/A	CUTTING CLOSE TO BULKHEADS RIVET HEADS



1-312MP
[ONE PIECE]

TIP SERIES		ONE PIECE CUTTING						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
1-312MP-2	1"	53	35/40	115/125	8	12/15	14/18	.09
1-312MP-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09

TECH TIP



The most widely accepted manner to light the torch is to open the fuel gas valve slightly and light the gas with a spark lighter. Adjust the gas until a stable flame is maintained at the end of the tip. Open the oxygen preheat valve slowly and increase the flow until the desired flame is achieved.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	68 SERIES	GOUGING SCARFING RIVET CUTTING



1-318MP
[ONE PIECE]

TIP SERIES		ONE PIECE CUTTING						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
1-318MP-4	3"	45	45/50	210/250	12	16/20	8/11	.12
1-318MP-6	6"	31	45/55	400/500	15	25/35	5/7	.17
1-318MP-8	8"	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TECH TIP

Propane is used regularly for oxygen cutting in a number of plants because of its availability and its much higher total heat value (MJ/m³) than natural gas. For proper combustion during cutting, propane requires 4 to 4 1/2 times its volume of preheat oxygen. This requirement is offset somewhat by its higher heat value. It is stored in liquid form and easily transported to the work site.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA250, CA350 3-780	EC72740	N/A	GOUGING SCARFING RIVET CUTTING



3-318MP [ONE PIECE]

TIP SERIES		ONE PIECE CUTTING						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
3-318MP-2	1"	53	35/40	115/125	8	12/15	14/18	.09
3-318MP-2	1 1/2"	53	40/45	125/135	9	12/15	12/16	.09
3-318MP-4	3"	45	45/50	210/250	12	16/20	8/11	.12

TECH TIP

A backfire is the momentary retrogression of the flame into the torch tip followed by immediate reappearance or complete extinguishing of the flame. If this condition continues, the torch or the tips, or both, should be removed from service for cleaning or possible repair.

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.



TIPS WELDING/HEATING

OXYACETYLENE/HYDROGEN/MAP/Pro™/PROPANE/NAT. GAS

STYLE

APPLICATION
WELDING
HEATING
BRAZING
SOLDERING

1



TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE #
TYPE1-00	TYPE1TE-00	N/A	5/16"-27(M,F)	1/64"- 3/64"	5	5	2.5		
TYPE1-0	TYPE1TE-0	N/A	5/16"-27(M,F)	1/32"- 5/64"	5	5	4		
TYPE1-1	TYPE1TE-1	N/A	5/16"-27(M,F)	3/64"-3/32"	5	5	6		WH360
TYPE1-2	TYPE1TE-2	N/A	5/16"-27(M,F)	1/16"- 1/8"	5	5	10		WH360L
TYPE1-3	TYPE1TE-3	N/A	3/8"-27(M,F)	1/8"- 3/16"	7	6	18		72L9
TYPE1-4	TYPE1TE-4	N/A	3/8"-27(M,F)	3/16"- 1/4"	10	7	28		72L11
TYPE1-5	TYPE1TE-5	N/A	7/16"-27(M,F)	1/4"- 1/2"	12	8	40		
TYPE1-6	TYPE1TE-6	N/A	7/16"-27(M,F)	1/2"- 3/4"	14	9	52		

APPLICATION
WELDING
HEATING

BRAZING
SOLDERING

4



TIP SERIES	COMPLETE ASSEMBLY PART#	ELBOW ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE #
TYPE4-000	TYPE4E-000	UM4-0	5/16"-27(M,F)	UP TO 1/32"	5	5	1.5		
TYPE4-00	TYPE4E-00	UM4-0	5/16"-27(M,F)	1/64"- 3/64"	5	5	2.5		
TYPE4-0	TYPE4E-0	UM4-0	5/16"-27(M,F)	1/32"- 5/64"	5	5	4		
TYPE4-1	TYPE4E-1	UM4-1	5/16"-27(M,F)	3/64"-3/32"	5	5	6		WH360
TYPE4-2	TYPE4E-2	UM4-1	5/16"-27(M,F)	1/16"- 1/8"	5	5	10		WH360L
TYPE4-3	TYPE4E-3	UM4-3	3/8"-27(M,F)	1/8"- 3/16"	7	6	18		72L9
TYPE4-4	TYPE4E-4	UM4-4	3/8"-27(M,F)	3/16"- 1/4"	10	7	28		72L11
TYPE4-5	TYPE4E-5	UM4-5	7/16"-20(M,F)	1/4"- 1/2"	12	8	40		
TYPE4-6	TYPE4E-6	UM4-5	7/16"-20(M,F)	1/2"- 3/4"	14	9	52		
TYPE4-7	TYPE4E-7	UM4-7	7/16"-20(M,F)	3/4"- 13/4"	16	10	66		
TYPE4-8	TYPE4E-8	UM4-7	7/16"-20(M,F)	1 1/2"-2	19	12	82		

APPLICATION
WELDING
HEATING
BRAZING
SOLDERING

13



TIP SERIES	COMPLETE ASSEMBLY PART#	ELBOW ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE #
TYPE13-000	TYPE13E-000	UM13-0	5/16"-27(M,F)	UP TO 1/32"	5	5	1.5		
TYPE13-00	TYPE13E-00	UM13-0	5/16"-27(M,F)	1/64"- 3/64"	5	5	2.5		
TYPE13-0	TYPE13E-0	UM13-0	5/16"-27(M,F)	1/32"- 5/64"	5	5	4		
TYPE13-1	TYPE13E-1	UM13-1	5/16"-27(M,F)	3/64"-3/32"	5	5	6		WH350
TYPE13-2	TYPE13E-2	UM13-2	5/16"-27(M,F)	1/16"- 1/8"	5	5	10		
TYPE13-3	TYPE13E-3	UM13-3	5/16"-27(M,F)	1/8"- 3/16"	7	6	18		
TYPE13-4	TYPE13E-4	UM13-4	5/16"-27(M,F)	3/16"- 1/4"	10	7	28		
TYPE13-5	TYPE13E-5	UM13-5	3/8"-24(M,F)	1/4"- 1/2"	12	8	40		
TYPE13-6	TYPE13E-6	UM13-5	3/8"-24(M,F)	1/2"- 3/4"	14	9	52		
TYPE13-7	TYPE13E-7	UM13-5	3/8"-24(M,F)	3/4"- 13/4"	16	10	66		

▽ Carefully read and understand operating instructions before using welding/heating tips.

TIP SERIES	COMPLETE ASSEMBLY PART#	ELBOW ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE #
APPLICATION WELDING HEATING BRAZING SOLDERING 	(W-J)	TYPE17-000	TYPE17E-000	UM17-000	1/4"-27(M,F)	UP TO 1/32"	5	5	1.5
		TYPE17-00	TYPE17E-00	UM17-000	1/4"-27(M,F)	1/64"- 3/64"	5	5	2.5
		TYPE17-0	TYPE17E-0	UM17-0	1/4"-27(M,F)	1/32"- 5/64"	5	5	4
		TYPE17-1	TYPE17E-1	UM17-2	1/4"-27(M,F)	3/64"- 3/32"	5	5	6
		TYPE17-2	TYPE17E-2	UM17-2	1/4"-27(M,F)	1/16"- 1/8"	5	5	10
		TYPE17-3	TYPE17E-3	UM17-3	1/4"-27(M,F)	1/8"- 3/16"	7	6	18
		TYPE17-4	TYPE17E-4	UM17-4	1/4"-27(M,F)	3/16"- 1/4"	10	7	28
		TYPE17-5	TYPE17E-5	UM17-5	5/16"-27(M,F)	1/4"-1/2"	12	8	40
		TYPE17-6	TYPE17E-6	UM17-5	5/16"-27(M,F)	1/2"- 3/4"	14	9	52
		TYPE17-7	TYPE17E-7	UM17-5	5/16"-27(M,F)	3/4"- 1 1/4"	16	10	66
									71 WH250 WH550 *WH350

ELBOW/MIXER COMPONENTS

TYPE4E ELBOW

65°
ANGLE

Elbow and mixer components for Type 4, Type 13 and Type 17 tip assemblies are also sold separately.

USE WITH
WH360, WH360L,
72L9, 72L11
HANDLES

UM4 MIXER

TYPE13E ELBOW

65°
ANGLE

UM13 MIXER

USE WITH
WH350 HANDLE

USE WITH
71, WH250 AND
WH550 HANDLES

TYPE17E ELBOW

65°
ANGLE

UM17 MIXER

NOTE: These tips are to be only hand tightened to the welding torch handles. Over tightening will damage the "O-Rings"

TECH TIP

Uniweld welding/heating tips are available in a variety of sizes, shapes and constructions. There are two methods of combining tips and mixers. 1. A special tip elbow may be used for each size of mixer or... 2. One or more mixers can cover the entire range of tip sizes. In the latter method, the tip elbow unscrews from its mixer; each size of mixer has a particular thread size to prevent improper coupling of a tip elbow and mixer. Remember: Tips should be periodically cleaned after use with Uniweld tip savers. Tip elbow and mixer threads and all sealing surfaces must be kept clean. A poor seal can result in leaks and a backfire or flashback may result.



TIPS BRAZING/HEATING

STYLE

OXYACETYLENE

TIP SERIES	COMPLETE ASSEMBLY PART#	ELBOW ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXYGEN (PSIG)	ACETYLENE (PSIG)	ACETYLENE (SCFH)	USE WITH WELDING HANDLE #
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APPLICATION

HEATING
BRAZING
SOLDERING

17

13

FLEXIBLE TIPS

TYPE17-9	TYPE17E-9	UM17-5	5/16"-27(M,F)	1/32"-5/64"	5	5	4
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71
WH250
WH550

TYPE13-8VM	TYPE13E-8	UM17-5	5/16"-27(M,F)	N/A	10-20	8-12	15-30
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71
WH250
WH550

TYPE13-8M	TYPE13E-8	UM13-4	5/16"-27(M,F)	N/A	10-20	8-12	15-30
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*WH350

TIP SERIES

PART#	ACETYLENE CONSUMPTION SCFH	OXYGEN PRESSURE (PSIG)	ACETYLENE PRESSURE (PSIG)	OVERALL LENGTH	REPLACEMENT MIXER AND NUT	BRAZING COPPER TUBING	USE WITH WELDING HANDLE #
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REMOVE
HEAT PUMP
REVERSING VALVES

17

TUNING FORK TIP™



The Tuning Fork™ Tip lets you heat up all the fittings of a heat pump reversing valve at once and remove and install the valve without altering the original copper tube and fittings.

U.S. Pat. No. 6,471,114

71, WH250
WH550

TYPE17TFT	5-10	10	7	8"	UM17-5	7/8"
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TIP SERIES

PART#	ACETYLENE CONSUMPTION SCFH	OXYGEN PRESSURE (PSIG)	ACETYLENE PRESSURE (PSIG)	OVERALL LENGTH	WELDING METAL THICKNESS	BRAZING COPPER TUBING	USE WITH WELDING HANDLE #
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APPLICATION

WELDING
HEATING
BRAZING
SOLDERING

MT

MICRO 6000® TIPS

High performance oxyacetylene brazing tips that provide precise concentrated heat up to 6000°F.

MTW-1	2-3	5	5	3"	3/64"	1/2"
MTW-2	2-4	5	5	3"	5/64"	1"
MTT	4-6	5	5	4"	N/A	1"
MTR	4-8	5	5	4"	N/A	1 1/2"

71
WH250
WH550

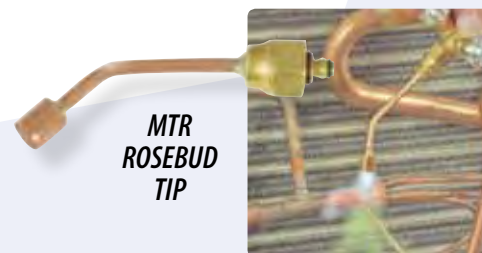
MTW
WELD TIP



MTT
TWIN TIP



MTR
ROSEBUD
TIP



*Type17 tips can be attached to a WH350 welding handle using an F15 Adaptor [See pg. 28]

OXYACETYLENE/HYDROGEN/MAP//Pro™/PROPANE/NAT. GAS

TIP SERIES	ACETYLENE CONSUMPTION SCFH	OXYGEN PRESSURE (PSIG)	ACETYLENE/FUEL PRESSURE (PSIG)	OVERALL LENGTH	BRAZING COPPER TUBING	USE WITH WELDING HANDLE #
PART#						

APPLICATION

BRAZING
HEATING

MTF

CAP'N HOOK® High performance **OXYACETYLENE** brazing tips that provide precise concentrated heat up to 6000°F.

MTF-5	4-6	8	5	51/2"	1"
MTF-9	5-9	10	7	81/2"	2"
MTF-17	8-14	18	17	11"	3"

71
WH250
WH550

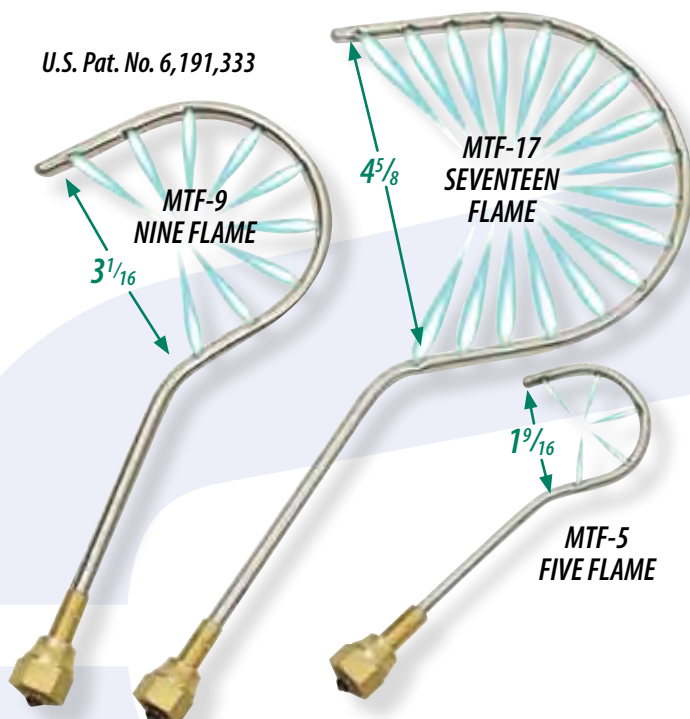
PART#	MAPP®/PROPANE CONSUMPTION SCFH	OXYGEN PRESSURE (PSIG)	MAPP®/PROPANE PRESSURE (PSIG)	OVERALL LENGTH	BRAZING COPPER TUBING	USE WITH WELDING HANDLE #
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CAP'N HOOK® High performance **MAP//Pro®** or **PROPANE/OXYGEN** brazing tips that provide precise concentrated heat up to 6000°F.

MTFM-5	2.6	10	5	51/2"	1"
MTFM-9	3.1	15	7	81/2"	2"
MTFM-17	5.6	20	10	11"	3"

71
WH250
WH550

U.S. Pat. No. 6,191,333



The patented Uniweld Cap'n Hook® high performance tip transfers high heat directly onto your work area and away from nearby sensitive areas. Stainless steel construction provides a stable flame time after time while holding its shape. Cap'n Hook® tips provide rapid, even heat distribution for excellent brazing and flow of alloy.



40° FLAME ANGLE

UNIWELD F15 ADAPTOR



The new! Uniweld F15 Adaptor lets you attach the popular Cap'n Hook® Tip to a WH350 V-Style welding handle. This handy weld/braze accessory allows you to easily adapt your toolbox full of Type 17, Cap'n Hook, Type 28 and Tuning Fork™ tips to fit on the larger WH350 V-style welding handle. It is machined out of solid brass and will stand up to years of on-the-job use.

Type 17 Tip

MTF-9 Tip

F15 Adaptor

F15 Adaptor

WH350
Welding
Handle

WH350
Welding
Handle

NOTE: All tips attached to WH350 handle with F15 adaptor must only be hand tightened.



TIPS BRAZING/HEATING

STYLE

OXYACETYLENE/HYDROGEN/MAP/Pro™/PROPANE/NAT. GAS

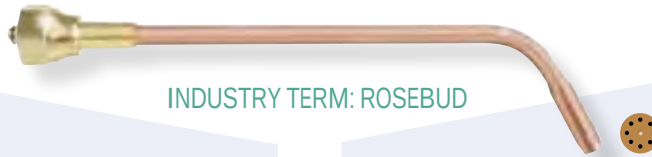
TIP SERIES	COMPLETE ASSEMBLY PART#	ELBOW ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE#
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APPLICATION
HEATING
BRAZING
SOLDERING

(UN-J)
17

HEATING TIPS: COMPLETE with Tip End

TYPE17-15	N/A	N/A	1/4"-27(M,F)	10-20	8-12	15-30
TYPE17-30	N/A	N/A	1/4"-27(M,F)	10-20	8-12	15-30



INDUSTRY TERM: ROSEBUD

71
WH250
WH550
*WH350

TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE#
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APPLICATION

(MFA-J)

28

HEATING TIPS: COMPLETE with Tip End

TYPE28-2	TYPE28TE-2	N/A	5/16"-27(M,F)	5-8	5-7	3-9
TYPE28-4	TYPE28TE-4	N/A	5/16"-27(M,F)	8-12	5-7	7-20
TYPE28-6	TYPE28TE-6	N/A	5/16"-27(M,F)	10-15	8-12	14-40
TYPE28-8	TYPE28TE-8	N/A	5/16"-27(M,F)	20-30	10-15	30-80



PRE-HEATING
STRAIGHTENING

INDUSTRY TERM: ROSEBUD

28 Tip End



71
WH250
WH550
*WH350

TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE#
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APPLICATION

(MFA-1)

29

HEATING TIPS: COMPLETE with Tip End

TYPE29-2	TYPE28TE-2	N/A	5/16"-27(M,F)	5-8	5-7	3-9
TYPE29-4	TYPE28TE-4	N/A	5/16"-27(M,F)	8-12	5-7	7-20
TYPE29-6	TYPE28TE-6	N/A	5/16"-27(M,F)	10-15	8-12	14-40
TYPE29-8	TYPE28TE-8	N/A	5/16"-27(M,F)	20-30	10-15	30-80



PRE-HEATING
STRAIGHTENING

INDUSTRY TERM: ROSEBUD

28 Tip End



WH350

*Type28, Type17-15 & Type17-30 tips can be attached to a WH350 welding handle using an F15 Adaptor [See pg. 28]

OXYACETYLENE

TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER PART#	ELBOW TO MIXER THREAD SPEC	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE#
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APPLICATION
PREHEATING
STRAIGHTENING

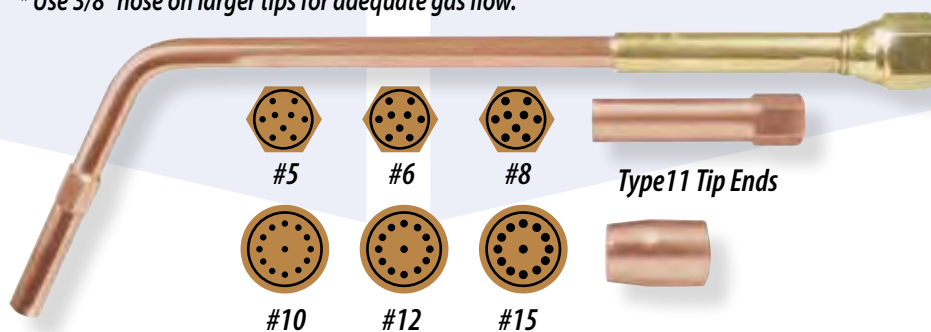
(MFA)
11

HEATING TIPS: COMPLETE with Tip End

TYPE11-5	TYPE11TE-5	UM11	7/16"-27(M,F)	10-15	7-10	6-20
TYPE11-6	TYPE11TE-6	UM11	7/16"-27(M,F)	10-15	8-12	14-40
TYPE11-8	TYPE11TE-8	UM11	7/16"-27(M,F)	20-30	10-15	30-80
TYPE11-10*	TYPE11TE-10	UM11-1	1/2"-27(M,F)	30-40	12-15	40-100
TYPE11-12*	TYPE11TE-12	UM11-1	1/2"-27(M,F)	40-60	12-15	60-150
TYPE11-15*	TYPE11TE-15	UM11-1	1/2"-27(M,F)	40-60	12-15	90-220

* Use 3/8" hose on larger tips for adequate gas flow.

INDUSTRY TERM: ROSEBUD



WH360
WH360L
72L9
72L11

OXY/MAP/Pro™/PROPANE/NATURAL GAS

TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER PART#	ELBOW TO MIXER THREAD SPEC	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE#
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APPLICATION
PREHEATING
STRAIGHTENING

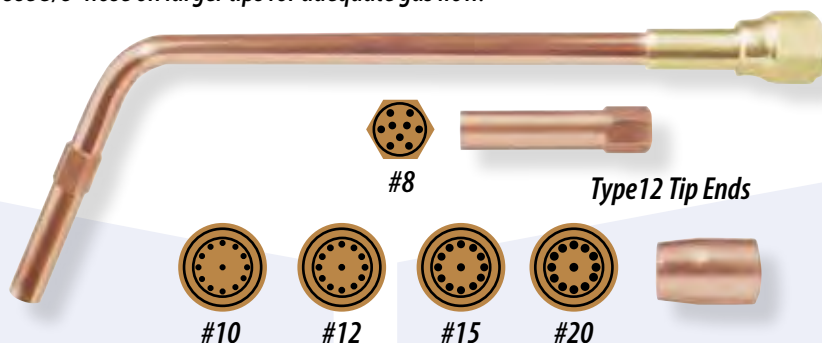
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12

HEATING TIPS: COMPLETE with Tip End

TYPE12-8	TYPE12TE-8	UM12	7/16"-27(M,F)	10-20	10-15	10-35
TYPE12-10*	TYPE12TE-10	UM12-1	1/2"-27(M,F)	10-30	12-20	20-80
TYPE12-12*	TYPE12TE-12	UM12-1	1/2"-27(M,F)	40-60	10-25	30-160
TYPE12-15*	TYPE12TE-15	UM12-1	1/2"-27(M,F)	40-60	15-25	50-200
TYPE12-20*	TYPE12TE-20	UM12-1	1/2"-27(M,F)	40-80	15-25	75-250

* Use 3/8" hose on larger tips for adequate gas flow.

INDUSTRY TERM: ROSEBUD



WH360
WH360L
72L9
72L11



TIPS HEATING

STYLE

OXY/FUEL GAS ONLY (Do not use with Acetylene)

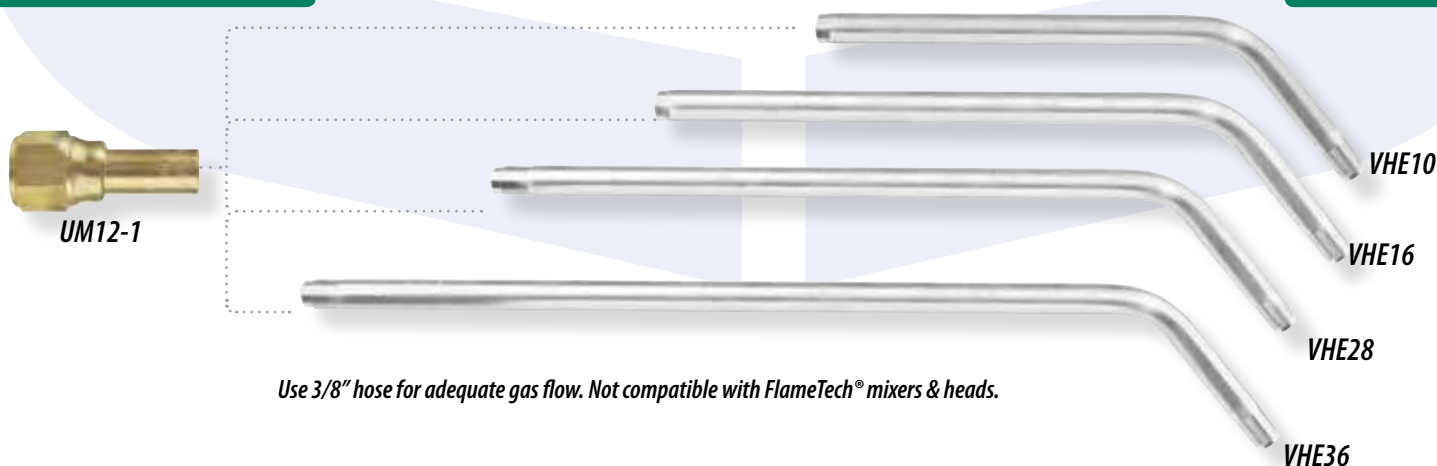
ELBOW TYPE	ELBOW ONLY PART #	LENGTH	ELBOW TIP END THREAD SPEC	MIXER ONLY PART #	ELBOW MIXER END THREAD SPEC	USE WITH WELDING HANDLE #
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VHE

HEATING COMPONENTS

VHE10	10"	1/4"-18NPT(M)	UM12-1	1/2"-27(M,F)
VHE16	16"	1/4"-18NPT(M)	UM12-1	1/2"-27(M,F)
VHE28	28"	1/4"-18NPT(M)	UM12-1	1/2"-27(M,F)
VHE36	36"	1/4"-18NPT(M)	UM12-1	1/2"-27(M,F)

WH360
WH360L
72L9
72L11



Use 3/8" hose for adequate gas flow. Not compatible with FlameTech® mixers & heads.

TIP END TYPE	TIP END PART #	TIP END THREAD SPEC	OXYGEN (PSIG)	FLOW (SCFH)	PROPANE (PSIG)	FLOW (SCFH)	HEAT OUTPUT (BTU/HR)
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DO NOT USE ACETYLENE

VH

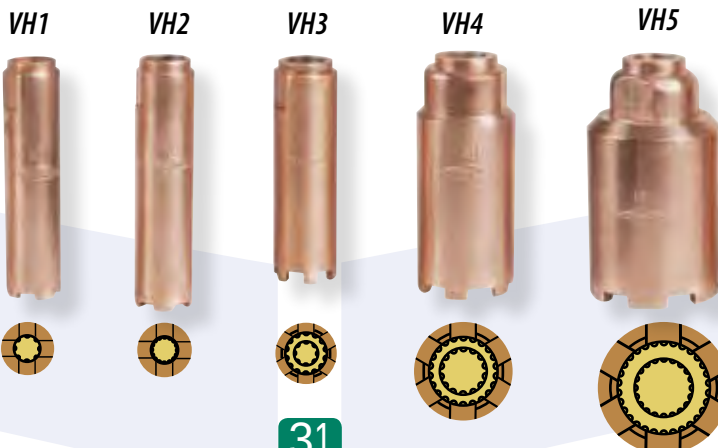
HEATING TIPS (Fuel Gas only)

VH1	1/4"-18NPT(F)	10-25	160-320	4-12	40-80
VH2	1/4"-18NPT(F)	15-45	220-520	7-22	55-130
VH3	1/4"-18NPT(F)	25-70	340-920	8-25	85-230
VH4*	1/4"-18NPT(F)	50-110	640-1300	10-30	160-325
VH5*	1/4"-18NPT(F)	60-135	720-1600	14-40	180-400

100,000-200,000
140,000-330,000
215,000-580,000
400,000-820,000
450,000-1,000,000

NOTE:

On continuous duty withdrawal, manifolding of cylinders may be required.



NOTE:

To calculate heat output for propylene, use 2400 BTU/cu. ft. X flow CFH

NOTE:

Use 3/8" hose on larger tips for adequate gas flow

ROUGHNECK

HEAVY DUTY

The Uniweld Roughneck is a complete heavy duty Oxyacetylene outfit for industrial & commercial applications including cutting, brazing, heating and welding.

CA43A CUTTING ATTACHMENT with its universal multi-gas head mixer for Acetylene 3 PSIG and above and for most fuel gases 5 ounces and above. Cuts up to 1" with supplied tip.

RV SERIES REGULATORS have single scale 2½" gauges, stainless steel diaphragms and accessibility to the seat from the rear.

43L9 WELDING HANDLE with separate two tube silver brazed construction and ribbed outer handle, vented for safety.

Cutting Capacity: 1" with supplied tip; up to 8" with optional tips [See pgs. 43-46]

Welding Capacity: ⅛" with supplied tips; up to ½" with optional tips [See pgs. 47-50]

Heating Tips: [See pgs. 47-50]



ROUGHNECK HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KX43 UPC# 83000	43L9E with UM43 Mixer	CA43A	6290A-1	TYPE79E -1, -3, -5	TYPE 7928E 6	RV8010 CGA540	RV8011 CGA510	TWIN HOSE 25' 1/4" "B" GOGGLES, LIGHTER
PART# KX43-4 UPC# 83002	43L9E with UM43 Mixer	CA43A	6290A-1	TYPE79E -1, -3, -5	TYPE 7928E 6	RV8010 CGA540	RV8011 CGA510	NO ACCESSORIES

ROUGHNECK OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS- ORDER BY ADDING (-1) TO END OF PART#

FABRICATOR

HEAVY DUTY

The Uniweld Fabricator is a basic head mix heavy duty Oxyacetylene outfit for cutting, welding, brazing & heating.

CA43A CUTTING ATTACHMENT with universal multi-gas head mixer and machine forged brass head and body. Cuts up to 8" with proper tip.

RV SERIES REGULATORS have single scale 2½" gauges, stainless steel diaphragms & accessibility to the seat from the rear.

RUH82 SERIES with a tri-layered reinforced diaphragm and single scale 2" gauges

43L9 WELDING HANDLE features two tube silver brazed construction and ribbed outer handle, vented for safety.

Cutting Capacity: 8" with optional tips [See pgs. 43-46]

Welding Capacity: ½" with optional tips [See pgs. 47-50]

Heating Tips: [See pgs. 47-50]



FABRICATOR HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	GAUGES	
PART# KV43A UPC# 83300	43L9	CA43A	RV8010 CGA540	RV8011 CGA510	2½"	FABRICATOR OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS- ORDER BY ADDING (-1) TO END OF PART#
PART# KR43A UPC# 84200	43L9	CA43A	RUH8210 CGA540	RUH8211 CGA510	2"	

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]



OUTFITS CUTTING & WELDING

STYLE

PROFESSIONAL HEAVY DUTY

The Uniweld Professional is a basic heavy duty Oxyacetylene or Propane cutting outfit.

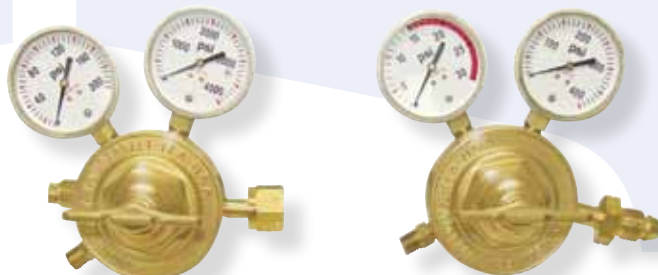
40 Series cutting torch has a precision machined forged body & head and durable three tube triangular construction.

40A Series cutting torch for medium pressure Acetylene only 3 PSIG and up with proper tip.

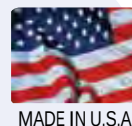
40AF Series cutting torch for medium pressure fuel gas only 3 PSIG and up with proper tip.

RV or RUH83 SERIES REGULATORS with large, easy to read single scale 2 1/2" gauges.

Cutting Capacity: up to 12" with proper tip [See pgs. 43-46]



KV40A-18



Additional accessories are required

PROFESSIONAL HEAVY DUTY	HAND CUTTING TORCH	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	PROPANE* REGULATOR 2-40 PSIG	PROFESSIONAL HEAVY DUTY	HAND CUTTING TORCH	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	PROPANE* REGULATOR 2-40 PSIG
PART# KV40A-18 UPC# 83100	40A-18 90°	RV8010 CGA540	RV8011 CGA510	-	PART# KR40A-18 UPC# 83200	40A-18 90°	RUH8310 CGA540	RUH8311 CGA510	-
PART# KV40AF-18 UPC# 83102	40AF-18 90°	RV8010 CGA540	-	RV8012 CGA510	PART# KR40AF-18 UPC# 83201	40AF-18 90°	RUH8310 CGA540	-	RUH8312 CGA510

PROFESSIONAL OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97,98]

ALL-AMERICAN HEAVY DUTY

The Uniweld All-American is a head mix Oxyacetylene outfit for cutting, brazing & welding.

CA43A CUTTING ATTACHMENT with universal multi-gas head mixer and machine forged brass head and body. Cuts up to 8" with proper tip.

RV SERIES REGULATORS have single scale 2 1/2" gauges, stainless steel diaphragms and accessibility to the seat from the rear.

43L9 WELDING HANDLE with separate two tube silver brazed construction and ribbed outer handle, vented for safety.

Cutting Capacity: 1" with supplied tip; up to 8" with optional tips [See pgs. 43-46]

Welding Capacity: 1/16" with supplied tip; up to 1/2" with optional tips [See pgs. 47-50]

Heating Tips: [See pgs. 47-50]



KAV43A

ALL-AMERICAN HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KAV43A UPC# 83004	43L9E	CA43A	6290A-1	TYPE 79E 3	RV8010 CGA540	RV8011 CGA510	TWIN HOSE 20' 1/4" "B" GOGGLES, LIGHTER
PART# KAV43A-4 UPC# 83006	43L9E	CA43A	6290A-1	TYPE 79E 3	RV8010 CGA540	RV8011 CGA510	NO ACCESSORIES

ALL-AMERICAN OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]



PROPANE KAVP43A HEAVY DUTY

The Uniweld heavy duty Propane outfit is used for cutting and brazing applications.

CA43A CUTTING ATTACHMENT with its universal multi-gas head mixer for most fuel gases 5 ounces and above. Cuts up to 1" with supplied tip.

RV SERIES REGULATORS have single scale 2½" gauges, stainless steel diaphragms and accessibility to the seat from the rear.

43L9 WELDING HANDLE with silver brazed two tube construction and ribbed outer handle, vented for safety.

Cutting Capacity: 1" with supplied tip; up to 6" with optional tips [See pgs. 43-46]

Brazing Capacity: 1" with supplied tip; up to 3" with optional tips [See pgs. 47-50]

Heating Tips: [See pgs. 47-50]

PROPANE KARP43A HEAVY DUTY

The Uniweld heavy duty Propane outfit is used for cutting and brazing applications.

CA43A CUTTING ATTACHMENT with universal multi-gas head mixer. Cuts up to 1" with supplied tip.

RUH83 SERIES REGULATORS with tri-layered, reinforced diaphragm and single scale 2½" gauges.

43L9 WELDING HANDLE with silver brazed two tube construction and ribbed outer handle, vented for safety.

Cutting Capacity: 1" with supplied tip; up to 6" with optional tips [See pgs. 43-46]

Brazing Capacity: 1" with supplied tip; up to 3" with optional tips [See pgs. 47-50]

Heating Tips: [See pgs. 47-50]

PROPANE HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-80 PSIG	PROPANE* REGULATOR 2-40 PSIG	ACCESSORIES
PART# KAVP43A UPC# 83400	43L9E with UM43 Mixer	CA43A	6290NX-1	TYPE 1279E 5	RV8010 CGA540	RV8012 CGA510	TWIN HOSE 20' 1/4" GRADE "T" "B" GOOGLES, LIGHTER
PART# KAVP43A-4 UPC# 83401	43L9E with UM43 Mixer	CA43A	6290NX-1	TYPE 1279E 5	RV8010 CGA540	RV8012 CGA510	NO ACCESSORIES
PROPANE MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-80 PSIG	PROPANE* REGULATOR 2-40 PSIG	ACCESSORIES
PART# KARP43A UPC# 84300	43L9E with UM43 Mixer	CA43A	6290NX-1	TYPE 1279E 5	RUH8310 CGA540	RUH8312 CGA510	TWIN HOSE 20' 1/4" GRADE "T" "B" GOOGLES, LIGHTER
PART# KARP43A-4 UPC# 84301	43L9E with UM43 Mixer	CA43A	6290NX-1	TYPE 1279E 5	RUH8310 CGA540	RUH8312 CGA510	NO ACCESSORIES

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97,98]



OUTFITS CUTTING & WELDING

STYLE

ALL-AMERICAN HEAVY DUTY

The Uniweld heavy duty All-American is a head mix Oxyacetylene outfit for cutting, brazing and welding.

CA43A CUTTING ATTACHMENT

with universal multi-gas head mixer.
Cuts up to 1" with supplied tip.

RUH83 SERIES REGULATORS with tri-layered reinforced diaphragm and single scale 2 1/2" gauges.

43L9 WELDING HANDLE can be used with Acetylene and most fuel gases: MAP//Pro™, Propane, Propylene and Natural Gas.

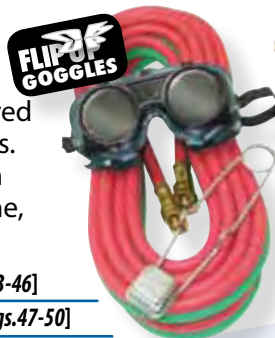
Cutting Capacity: 1" with supplied tip; up to 8" with optional tips [See pgs. 43-46]

Welding Capacity: 1/16" with supplied tip; up to 1/2" with optional tips [See pgs. 47-50]

Heating Tips: [See pgs. 47-50]



MADE IN U.S.A.



KAR43A

ALL-AMERICAN
HEAVY DUTY

WELDING
HANDLE

CUTTING
ATTACHMENT

CUTTING
TIP

WELD/BRAZE
TIP

OXYGEN*
REGULATOR
5-125 PSIG

ACETYLENE*
REGULATOR
2-15 PSIG

ACCESSORIES

PART# KAR43A
UPC# 84000

43L9E with
UM43 Mixer

CA43A

6290A-1

TYPE 79E
3

RUH8310
CGA540

RUH8311
CGA510

TWIN HOSE 20' 1/4" "B"
GOGGLES, LIGHTER

PART# KAR43A-4
UPC# 84002

43L9E with
UM43 Mixer

CA43A

6290A-1

TYPE 79E
3

RUH8310
CGA540

RUH8311
CGA510

NO ACCESSORIES

ALL-AMERICAN OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

ALL-TRADES MEDIUM DUTY

The Uniweld All-Trades is a complete head mix Oxyacetylene outfit for cutting and welding plus brazing & heating.

CA79A CUTTING ATTACHMENT for use **ONLY** with Acetylene 3 PSIG and above.

RUH82 SERIES REGULATORS with a tri-layered reinforced diaphragm and single scale 2" gauges.

WH79 WELDING HANDLE can be used with Acetylene and most fuel gases: MAP//Pro™, Propane, Propylene and Natural Gas.

Cutting Capacity: 1" with supplied tip; up to 6" with optional tips [See pg. 43]

Welding Capacity: 1/8" with supplied tips; up to 1/2" with optional tips [See pgs. 47, 48]

Heating Tips: [See pgs. 47, 49]



MADE IN U.S.A.



KL79

ALL-TRADES
MEDIUM DUTY

WELDING
HANDLE

CUTTING
ATTACHMENT

CUTTING
TIP

WELD/BRAZE
TIPS

HEATING
TIP

OXYGEN*
REGULATOR
5-125 PSIG

ACETYLENE*
REGULATOR
2-15 PSIG

ACCESSORIES

PART# KL79
UPC# 84100

WH79 with
UM79 Mixer

CA79A

6290A-1

TYPE 79E
-1, -3, -5

TYPE 7928E
4

RUH8210
CGA540

RUH8211
CGA510

TWIN HOSE 20' 3/16" "B"
GOGGLES, LIGHTER

PART# KL79-4
UPC# 84102

WH79 with
UM79 Mixer

CA79A

6290A-1

TYPE 79E
-1, -3, -5

TYPE 7928E
4

RUH8210
CGA540

RUH8211
CGA510

NO ACCESSORIES

ALL-TRADES OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

ALL-AMERICAN HEAVY DUTY



The Uniweld All-American is a complete Oxyacetylene outfit for cutting, brazing & welding.

CA79A CUTTING ATTACHMENT

is solely for use with Acetylene 3 PSIG and above. Cuts up to 1" with supplied tip.

RUH82 SERIES REGULATORS with a tri-layered reinforced diaphragm and single scale 2" gauges.

WH79 WELDING HANDLE with mixer can be used with Acetylene and most fuel gases: MAP/Pro™, Propane, Propylene and Natural Gas.



Cutting Capacity: 1" with supplied tip; up to 6" with optional tips [See pg. 43]

Welding Capacity: 1/16" with supplied tip; up to 1/2" with optional tips [See pgs. 47, 48]

Heating Tips: [See pgs. 47, 49]

ALL-AMERICAN MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KR79 UPC# 84104	WH79 with UM79 Mixer	CA79A	6290A-1	TYPE 79E 3	RUH8210 CGA540	RUH8211 CGA510	TWIN HOSE 20' 3/16" "B" GOGGLES, LIGHTER
PART# KR79-4 UPC# 84106	WH79 with UM79 Mixer	CA79A	6290A-1	TYPE 79E 3	RUH8210 CGA540	RUH8211 CGA510	NO ACCESSORIES

ALL-AMERICAN MEDIUM DUTY



The Uniweld All-American is a basic Oxyacetylene outfit for cutting, brazing & welding.

CA79A CUTTING ATTACHMENT

is solely for use with Acetylene 3 PSIG and above. Cuts up to 1" with supplied tip.

MR SERIES REGULATORS with a cartridge type seat assembly and 2" single scale gauges

WH79 WELDING HANDLE can be used with Acetylene and most fuel gases: MAP/Pro™, Propane, Propylene and Natural Gas.



Cutting Capacity: 1" with supplied tip; up to 6" with optional tips [See pg. 43]

Welding Capacity: 1/16" with supplied tip; up to 1/2" with optional tips [See pgs. 47, 48]

Heating Tips: [See pgs. 47, 49]

ALL-AMERICAN MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-80 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KM79 UPC# 85000	WH79 with UM79 Mixer	CA79A	6290A-1	TYPE 79E 3	MR8210 CGA540	MR8211 CGA510	TWIN HOSE 20' 3/16" "B" GOGGLES, LIGHTER
PART# KM79-4 UPC# 85002	WH79 with UM79 Mixer	CA79A	6290A-1	TYPE 79E 3	MR8210 CGA540	MR8211 CGA510	NO ACCESSORIES

ALL-AMERICAN OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]



OUTFITS CUTTING & WELDING

STYLE

THE WURKS®-H MEDIUM DUTY



MADE IN U.S.A.

The Uniweld Wurks-H is a complete 12 piece, easy-to-operate, all-purpose outfit for cutting, welding and brazing that's packed in its own rugged Wurks Box with a compartmented accessory tray.

CA79A CUTTING ATTACHMENT [Acetylene only] with precision forged brass head and body and injector mixer. Cuts up to 1" with supplied tip.

MR SERIES REGULATORS with large, easy to read single scale 2" gauges.

WH79 WELDING HANDLE with mixer can be used with Acetylene and most fuel gases: MAP/Pro™, Propane, Propylene and Natural Gas.

Cutting Capacity: 1" with supplied tip; up to 6" with optional tips [See pg. 43]

Welding Capacity: 3/64" with supplied tip; up to 1/2" with optional tips [See pgs. 47, 48]

Heating Tips: [See pgs. 47, 49]



WURKS-H



*Operating and Safety Instructions included.
Oxygen and Fuel Gas Cylinders required.*

Use the Wurks-H for:

- ☐ Cutting most Steels
- ☐ Auto, Truck and Trailer Repair
- ☐ Plumbing and General Home Maintenance
- ☐ Building Metal Workstands
- ☐ Creating Metal Artwork
- ☐ Heating Metal Bars and Pipes for Bending
- ☐ Removing Rusty Nuts from Rusty Bolts
- ☐ Repairing Garden and Farm Tools

WURKS-H OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

THE WURKS-H MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	OXYGEN* REGULATOR 5-80 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	TOOLBOX W/TRAY	ACCESSORIES†
PART# WURKS-H UPC# 85005	WH79 with UM79 Mixer	CA79A	6290A-1	TYPE 79E 2	MR8210 CGA540	MR8211 CGA510	CC60 BLACK PLASTIC	12.5' TWIN HOSE 3/16", "B"

†ACCESSORIES INCLUDE: GOGGLES, SHADE #5 [Pg. 107], FLINT LIGHTER [Pg. 107], TIP CLEANER SET [Pg. 108], LEATHER WELDING GLOVES [Pg. 107]

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

ROLLIN' ROUGHNECK

HEAVY DUTY

The Uniweld Rollin' Roughneck is the roughest, toughest most complete portable heavy duty Oxyacetylene welding and cutting system you'll ever find.

CA43A CUTTING ATTACHMENT with its universal multi-gas head mixer for Acetylene [3 PSIG and above] and for most fuel gases 5 ounces and above. Cuts up to 1" with supplied tip.

RV SERIES REGULATORS have single scale 2½" gauges, stainless steel diaphragms & accessibility to the seat from the rear.

43L9 WELDING HANDLE with separate silver brazed two tube construction and ribbed outer handle, vented for safety.

Cutting Capacity: 1" with supplied tip; up to 8" with optional tips [See pgs. 43-46]

Welding Capacity: ½" with supplied tips; up to ½" with optional tips [See pgs. 47-50]

Heating Tips: [See pgs. 47-50] **Dimensions:** 35¼" W • 28" D • 61" H

Weight: 95 LBS (without cylinders).

WELDED STEEL
FRAME
SEE-THRU
GRATES

1000 LB.
CAPACITY
LIFTING
HOOK

Part# 509
[cart only]
UPC# 30016

Part# 509FW
[cart with firewall]
UPC# 30019

83550

16" X 4"
PNEUMATIC
TIRES



MADE IN U.S.A.



ROLLIN' ROUGHNECK HEAVY DUTY

WELDING HANDLE

CUTTING ATTACHMENT

CUTTING TIP

WELD/BRAZE TIPS

HEATING TIP

OXYGEN* REGULATOR 5-125 PSIG

ACETYLENE* REGULATOR 2-15 PSIG

ROLLIN' ROUGHNECK CART

PART# 83550
UPC# 83550

43L9E Includes
UM43 Mixer

CA43A

6290A-1

TYPE 79E
-1, -3, -5

TYPE 7928E
8

RV8010
CGA540

RV8011
CGA510

509
W/O CYLINDERS

PART# 83551
UPC# 83551

43L9E Includes
UM43 Mixer

CA43A

6290A-1

TYPE 79E
-1, -3, -5

TYPE 7928E
8

RV8010
CGA540

RV8011
CGA510

509FW†
W/O CYLINDERS

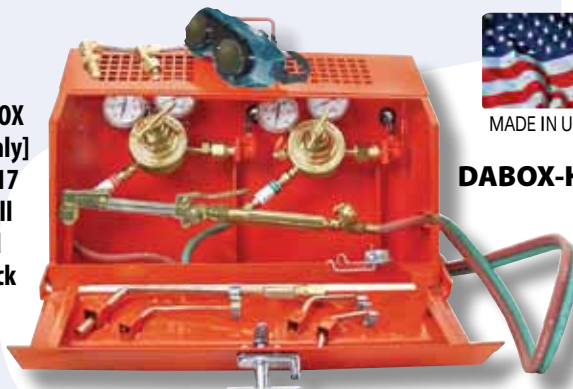
ROLLIN' ROUGHNECK INCLUDES: 25' TWIN HOSE, 1/4" "B" FITTINGS [Pg. 105], FLIP-UP GOGGLES, SHADE #5 [Pg. 107], FLINT LIGHTER [Pg. 107], TORCH FLASHBACK ARRESTORS [Pg. 106] INSTALLED AND 18" STAINLESS STEEL PIGTAIL ASSEMBLY. † 509FW COMES WITH BUILT-IN FIREWALL

DA BOX®

HEAVY DUTY

The Uniweld Da Box® is the perfect outfit to mount on your truck for maximum mobility and security. Add the desired braided stainless steel hose pigtails to complete Da Box® Outfit.

Part# DABOX
[cabinet only]
UPC# 30017
Accepts all
Uniweld
Roughneck
Outfits



MADE IN U.S.A.

DABOX-H

PIGTAILS

PART#	UPC#	LENGTH	DESCRIPTION
PT300-24	43601	24"	Flexible Stainless Steel Pigtail Assemblies with Brass Fittings CGA300 Acetylene
PT300-36	43602	36"	
PT300-48	43603	48"	
PT510-24	43621	24"	Flexible Stainless Steel Pigtail Assemblies with Brass Fittings CGA510 Acetylene or Propane
PT510-36	43622	36"	
PT510-48	43623	48"	
PT540-24	43631	24"	Flexible Stainless Steel Pigtail Assemblies with Brass Fittings CGA540, Oxygen, 3000 PSIG
PT540-36	43632	36"	
PT540-48	43633	48"	

ADDITIONAL PIGTAILS AVAILABLE ON REQUEST

Dimensions: 23" W • 10" D • 20" H

Weight: 39 LBS (empty).

DA BOX® HEAVY DUTY OUTFIT

WELDING HANDLE

CUTTING ATTACHMENT

CUTTING TIP

WELD/BRAZE TIPS

HEATING TIP

OXYGEN* REGULATOR 5-125 PSIG

ACETYLENE* REGULATOR 2-15 PSIG

DA BOX CABINET

PART# DABOX-H
UPC# 83500

43L9E with
UM43 Mixer

CA43A

6290A-1

TYPE 79E
-1, -3, -5

TYPE 7928E
8

RV8010
CGA540

RV8011
CGA510

DA BOX

DA BOX-H INCLUDES: 25' TWIN HOSE, 1/4" "B" FITTINGS [Pg. 105], FLIP-UP GOGGLES, SHADE #5 [Pg. 107], FLINT LIGHTER [Pg. 107], CGA510 POL to CGA300 CA ADAPTOR [Pg. 97], REGULATOR FLASHBACK ARRESTOR INSTALLED [Pg. 106]

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]



CUTTING ATTACHMENTS

STYLE

CA43A HEAD MIX

INJECTOR HEAD MIXER WORKS EXTREMELY WELL WITH LOW PRESSURE ACETYLENE AND FUEL GAS AT 3 PSIG AND ABOVE

FORGED BRASS HEAD AND BODY

STAINLESS STEEL BALL POINT VALVE WITH TEFLON® PACKING

CONTOURED FORGED BRASS CUTTING OXYGEN LEVER

RIGID THREE TUBE TRIANGULAR SILVER BRAZED CONSTRUCTION

HAND TIGHT NUT WITH TWO O-RING SEALS

H STYLE TIP SEATING AREA 2 FLAT SEATS

PUSHROD TYPE CUTTING OXYGEN VALVE THAT'S EASY TO USE AND REPAIR

HEAD ANGLES

90°

70°

PART# UPC#	CA43A 02201	CA43 02200	CA79A 02500	CA79 02501
LENGTH	10 $\frac{1}{4}$ "	10 $\frac{1}{4}$ "	10 $\frac{1}{4}$ "	10 $\frac{1}{4}$ "
WEIGHT	26 OZ.	26 OZ.	26 OZ.	26 OZ.
HEAD ANGLE	90°	70°	90°	70°
CUTTING CAPACITY*	8" (ALL GASES)	8" (ALL GASES)	6" (ACETYLENE ONLY)	6" (ACETYLENE ONLY)
TIP SERIES	6290	6290	6290	6290
COMPATIBLE WELDING HANDLES	43L9 w/o Mixer 43L9E with UM43	43L9 w/o Mixer 43L9E with UM43	WH79-2 w/o Mixer WH79 with UM79	WH79-2 w/o Mixer WH79 with UM79

*SEE PAGES 43-46 FOR ALL GASES CUTTING TIPS AND SPECIAL PURPOSE TIP SELECTION

43L9

FORGED BRASS
REAR TORCH AND
VALVE BODIES

TWO SILVER
BRAZED TUBES
INSIDE A VENTED
BRASS HANDLE

RIBBED
BRASS HANDLE

STAINLESS STEEL BALL
POINT VALVES WITH
TEFLON® PACKING

UM43
MIXER

UM79
MIXER

ALL H-STYLE ELBOWS
FIT BOTH UM43 AND
UM79 MIXERS

NOTE: 43 SERIES HANDLES
HAVE LARGER FLOW VOLUMES
THAN 79 SERIES.

PART#	43L9 w/o Mixer 00250	43L9E w/UM43 Mixer 00251	WH79-2 w/o Mixer 00451	WH79 w/UM79 Mixer 00450
UPC#				
LENGTH	8 1/4"	11 1/2"	7 1/2"	10"
WEIGHT	17 OZ.	23 OZ.	13 OZ.	18 OZ.
HOSE CONNECTION	"B" 9/16"-18 THREAD			
WELDING CAPACITY*	1/2"	1/2"	1/2"	1/2"
COMPATIBLE CUTTING ATTACHMENTS	CA43A(90°) CA43(70°)	CA43A(90°) CA43(70°)	CA79A(90°) CA79(70°)	CA79A(90°) CA79(70°)

*SEE PAGES 47-50 FOR WELDING, BRAZING, HEATING TIPS and MIXER INFORMATION.



TORCHES HAND CUTTING

STYLE

40A-21
HEAD MIX

CNC PRECISION
MACHINED
FORGED BRASS HEAD

INJECTOR HEAD MIXER
FOR ACETYLENE (40A, 40, 40B)
FOR FUEL GAS (40AF, 40F, 40BF)
FOR NATURAL GAS (40N, 40AN)

PUSHROD TYPE CUTTING
OXYGEN VALVE DESIGNED
FOR EASE OF SERVICE
AND REPAIR

TYPE-H
2 FLAT SEATS

RIGID TRIANGULAR
THREE TUBE
SILVER BRAZED
CONSTRUCTION

CONTOURED FORGED
BRASS CUTTING LEVER

STAINLESS STEEL BALL POINT
VALVES WITH TEFLON® PACKING
PROMOTES DURABILITY AND
POSITIVE SHUT-OFF

FIELD
REPLACEABLE
EXTERNAL
CHECK VALVES

HEAD
ANGLES



90°



70°



180°

40AF-18 NOT SHOWN

40AN-18 NOT SHOWN

40AF-21 NOT SHOWN

40AN-21 NOT SHOWN

40AF-36 NOT SHOWN

40AF-48 NOT SHOWN

HEAD ANGLE	PART#	40A-18	40AF-18	40AN-18	40A-21	40AF-21	40AN-21	40A-36	40AF-36	40A-48	40AF-48
90°	UPC#	04801	04806	04851	04811	04816	04856	04821	04826	04831	04836
HEAD ANGLE	PART#	40-18	40F-18	40N-18	40-21	40F-21	40N-21	40-36	40F-36	40-48	40F-48
70°	UPC#	04800	04805	04850	04810	04815	04855	04820	04825	04830	04835
HEAD ANGLE	PART#	40B-18	40BF-18	-	40B-21	40BF-21	-	40B-36	40BF-36	40B-48	40BF-48
180°	UPC#	04802	04807		04812	04817		04822	04827	04832	04837
TORCH LENGTH		18"	18"	18"	21"	21"	21"	36"	36"	48"	48"
WEIGHT		55 OZ.	55 OZ.	55 OZ.	59 OZ.	59 OZ.	59 OZ.	74 OZ.	74 OZ.	76 OZ.	76 OZ.
LEVER POSITION		BOTTOM REAR									
CUTTING CAPACITY*		12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
TIP SERIES		6290	6290	6290	6290	6290	6290	6290	6290	6290	6290

*SEE PAGES 43-46 FOR CUTTING TIPS and
SPECIAL PURPOSE TIP SELECTION



63 SERIES HEAD MIX

PRECISION
REAMED
SEATS

HEAVY DUTY BRASS
STANDARD 1-3/8" BARREL

FOUR POSITION RACK
ADJUSTMENT 90° APART
[OPTIONAL]

STAINLESS STEEL BALL
POINT PREHEAT VALVES

QUICK OPENING
OXYGEN
CUTTING LEVER

63

Use with optional Preheat Adaptor: Part#15AR (acetylene), 15PR (propane)

15AR

#6200BA The Uniweld adjustable head Bevel Cutting Adaptor with calibrated dial lets you set angles from 0° to 90° to cut bevels without tilting the Machine Torch.

63 SERIES MULTIGAS MACHINE TORCHES

PART# UPC#	63-6 04962	63 04960
BARREL LENGTH	6"	10"
TWO HOSE W/CAM ACTION OXYGEN CUTTING VALVE	YES	YES
CUTTING CAPACITY*	8"	8"

MUST ORDER RACK SEPARATELY

63 MACHINE TORCH SERIES RACKS

PART# UPC#	68164-6A 04370	68164-10A 04371
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RACK LENGTH	6" (2 screws)	10" (3 screws)
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68164-10A

62 MACHINE TORCH SERIES REPLACEMENT RACKS

PART# UPC#	6250 04930	6250-2 04931
---------------	---------------	-----------------

RACK LENGTH	6" (2 screws)	10" (3 screws)
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6250-2

TRAKUTTER™
OXY/FUEL

UCM200T
UCM220T
TRACKS INCLUDED

UCM200
UCM220
TRACKS NOT INCLUDED

The Uniweld TRAKUTTER is a portable track-style machine that can operate on its own track for precision straight line cutting.

CUTTING MACHINE with 32 pitch pinion torch holder designed for 13/8"(35mm) barrel diameter. Fits Uniweld machine torches; Series 63, 64 and 68

- Power: AC110V or 220V, 50/60 Hz
- Large adjustment knobs and wing nuts for lock-down
- 3' manifold to torch twin hose and two hose manifold block
- Additional hoses required Torch not included
- Speed Range: 6" (150mm) per/min to 31" (800mm) per/min.
- Racking distance up to 8" from the machine body
- Single cone speed changer; variable speed in both forward and reverse.
- 6 ft. of Track included with UCM200T and UCM220T.
- 16" power cord



OPTIONAL TRACK SECTION

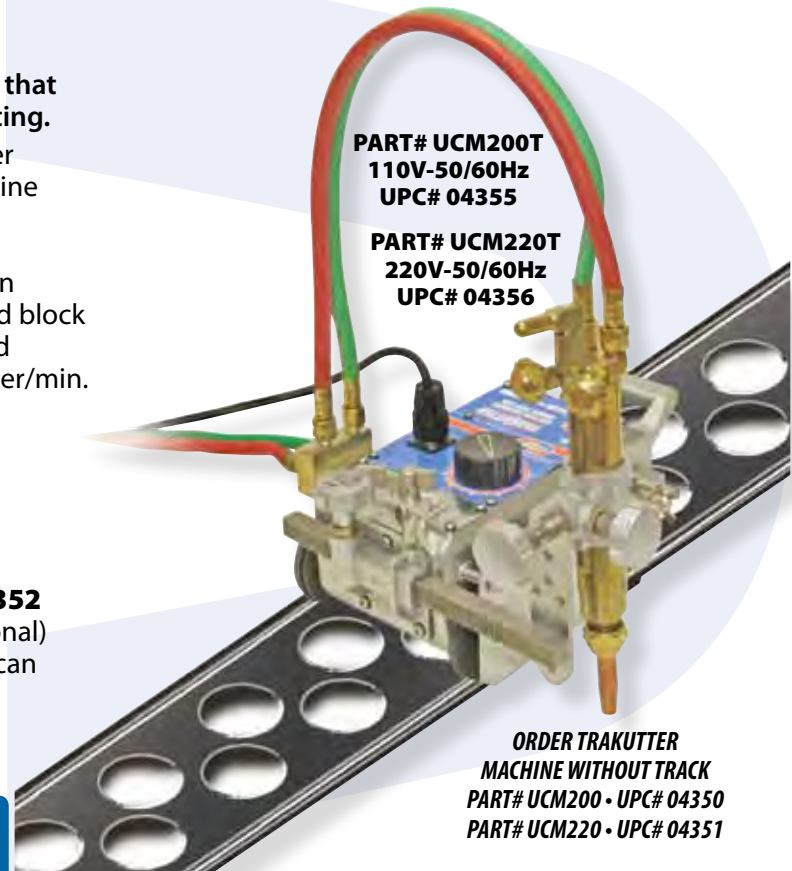
PART# CMTR3X2 UPC# 04352

3' Track sections (set of 2; optional) for line cutting. Track sections can be securely interlocked for added length.

*SEE PAGES 43-46 FOR
ALL GASES CUTTING TIPS.

PART# UCM200T
110V-50/60Hz
UPC# 04355

PART# UCM220T
220V-50/60Hz
UPC# 04356



ORDER TRAKUTTER
MACHINE WITHOUT TRACK
PART# UCM200 • UPC# 04350
PART# UCM220 • UPC# 04351



TIPS CUTTING & HEATING

STYLE

ACETYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA43, CA43A CA79	40	63 SERIES	GENERAL PURPOSE CUTTING MACHINE CUTTING
			
6290A [ONE PIECE]			

TIP SERIES		ONE PIECE		
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN PSIG	ACETYLENE PSIG
6290A-000	3/16"	68	15/30	5/15
6290A-00	3/8"	64	20/30	5/15
6290A-0	5/8"	60	30/40	5/15
6290A-1	1"	56	35/50	5/15
6290A-2	2"	52	40/55	5/15
6290A-3	3"	48	45/60	5/15
6290A-4	6"	42	50/75	5/15
6290A-5	8"	35	65/80	5/15
6290A-6	12"	30	70/90	5/15

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA43, CA43A CA79	40	63 SERIES	SCRAP
			
6290S [ONE PIECE]			

TIP SERIES		ONE PIECE		
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN PSIG	ACETYLENE PSIG
6290S-1	1"	56	35/50	5/15
6290S-2	2"	51	40/55	5/15
6290S-3	3"	48	45/60	5/15
6290S-4	6"	42	50/75	5/15
6290S-5	8"	35	65/80	5/15
6290S-6	12"	30	70/90	5/15

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA43, CA43A CA79	40	63 SERIES	GOUGING
			
6290G [ONE PIECE]			

TIP SERIES		ONE PIECE	
PART #	GOUGING WIDTHS	CUTTING OXYGEN PSIG	ACETYLENE PSIG
6290G-1	1/8" - 1/4"	35	5/15
6290G-2	3/16" - 3/8"	50	5/15
6290G-3	1/4" - 1/2"	50	5/15

TECH TIP The oxygen fuel gas-cutting torch can be used for gouging. Special gouging tips are available and they should be selected based on the particular geometry of joint preparation. It is possible, by closely watching the cut surface, to find and follow cracks during the flame gouging operation. The edges of the cracks will show since they become slightly hotter.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA43, CA43A CA79	40	N/A	MULTI-FLAME HEATING
			
6290HA [ONE PIECE]			

TIP SERIES		SPECIALTY HEATING ASSEMBLY	
PART #	SPECIALTY HEATING TIP TURNS A HAND CUTTING TORCH INTO A HEATING TORCH	PREHEAT OXYGEN PSIG	ACETYLENE PSIG
6290HA-1		12	12
6290HA-2		14	14

TECH TIP A multi-flame heating tip (Rosebud) is designed for uniform heating with acetylene.

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.

NATURAL GAS/PROPANE/PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

CA43, CA43A 40F N/A GOUGING



6290GG [TWO PIECE]



TIP SERIES		TWO PIECE				
PART #	GOUGING WIDTHS	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.
		PSIG	SCFH	PSIG	SCFH	

6290GG-1	1/8"- 1/4"	25/30	45/55	5	8/10	20/24
6290GG-2	3/16"- 3/8"	30/35	50/55	5	8/10	18/22
6290GG-3	1/4"- 1/2"	30/35	70/80	6	10/12	15/20

TECH TIP

Before lighting tip, **purge** all hoses and torch passages by briefly opening and closing each torch valve. Vent gases safely. **NOTE:** mixed gases in the torch or the hose, etc. can cause a backfire or flashback. **Purging** must be done before each torch lighting and especially after a cylinder change.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

CA43, CA43A 40F 63 SERIES SCRAP AND BEVEL CUTTING



6290NFF [TWO PIECE]



TIP SERIES		TWO PIECE			
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS PSIG
			PSIG	SCFH	

6290NFF-00	1/4"	67	20/25		5/15
6290NFF-0	3/8"	60	30/35		5/15
6290NFF-1	5/8"	56	20/35		5/15
6290NFF-2	2"	53	30/55		5/15
6290NFF-3	4"	47	45/65		5/15
6290NFF-4	7"	42	55/75		5/15
6290NFF-5	10"	35	60/80		5/15
6290NFF-6	12"	31	80/90		5/15

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

CA43, CA43A 40F N/A RIVET WASHING REMOVING WELDS



6290NFW [TWO PIECE]



TIP SERIES		TWO PIECE		
PART #	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS PSIG
		PSIG	SCFH	

6290NFW-8	60	50		5-15
-----------	----	----	--	------

TECH TIP

Rivets can be easily removed by "washing" one head off with an acetylene torch. Next, a hole is burned along the rivet longitudinal axis. Then, while still hot, the rivet can be driven out with a pin punch and a two-pound hammer. This process completely removes the rivet and leaves a clean hole in original condition.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

CA43, CA43A 40F 63 SERIES MACHINE CUTTING HEAVY PLATE CUTTING



6290NH [TWO PIECE]



TIP SERIES		TWO PIECE			
PART #	CUT METAL THICKNESS	CUTTING OXYGEN		FUEL GAS	
		PSIG	SCFH	PSIG	SCFH

6290NH-5	10"	60	22/26	5-15	
6290NH-6	11"	60	45/55	5-15	
6290NH-7	12"	60	50/55	5-15	
6290NH-8	15"	60	70/80	5-15	

TECH TIP

Oxy-fuel gas cutting machines are either portable or stationary. Portable cutting machines are primarily used for straight line cutting. They can carry one or more heavy-duty machine torches.



TIPS CUTTING

STYLE

NATURAL GAS/PROPANE/PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA43, CA43A	40F	63 SERIES	GENERAL PURPOSE CUTTING MACHINE CUTTING



6290NX
[TWO PIECE]
14 "V" SHAPED GROOVES



TIP SERIES TWO PIECE				
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN PSIG	FUEL GAS PSIG
6290NX-000	3/16"	68	15/30	5/15
6290NX-00	3/8"	64	20/30	5/15
6290NX-0	5/8"	60	30/40	5/15
6290NX-1	1"	56	35/50	5/15
6290NX-2	2"	52	40/55	5/15
6290NX-3	3"	48	45/60	5/15
6290NX-4	6"	42	50/75	5/15
6290NX-5	8"	35	65/80	5/15
6290NX-6	12"	30	70/90	5/15

TECH TIP

When oxy-fuel cutting, the metal is heated until it glows orange (~1800 °F = 982°C), and then a lever on the torch is pressed to pass a stream of oxygen through the work-piece to burn the steel away where the cut is desired. The iron-oxide product of this combustion process falls to the floor as dust. Once the process is started properly, there should be no globs of melted steel under the work-piece. No melting should occur.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
N/A	N/A	63 SERIES	HIGH SPEED MACHINE CUTTING WITH SPECIAL CUTTING ORIFICE



6290VVC
[TWO PIECE]
14 "V" SHAPED GROOVES WITH SPECIAL VENTURI



TIP SERIES TWO PIECE					
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN PSIG	FUEL GAS PSIG	KERF WIDTH
6290VVC-5/0	3/16"	75	40	5/15	.05
6290VVC-4/0	1/4"	68	50	5/15	.06
6290VVC-3/0	3/8"	64	75	5/15	.07
6290VVC-2/0	1/2"	62	75	5/15	.07
6290VVC-0	3/4"	59	90	5/15	.08
6290VVC-0-1/2	1 1/4"	57	100	5/15	.08
6290VVC-1	2 1/2"	56	100	5/15	.09
6290VVC-1-1/2	3"	54	100	5/15	.11
6290VVC-2	5"	53	100	5/15	.12
6290VVC-2-1/2	6"	51	100	5/15	.13
6290VVC-3	7"	49	100	5/15	.14
6290VVC-4	8"	45	100	5/15	.16
6290VVC-5	9"	41	90	5/15	.20
6290VVC-5-1/2	10"	40	90	5/15	.25

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
CA43, CA43A	40F	N/A	MULTI-FLAME HEATING



H62-P
[TWO PIECE]



TIP SERIES SPECIALTY HEATING ASSEMBLY TWO PIECE			
PART #	SPECIALTY HEATING TIP TURNS A HAND CUTTING TORCH INTO A HEATING TORCH	OXYGEN PSIG	FUEL GAS PSIG
H62-P1		45	5/15
H62-P2		50	5/15
H62-P3		55	5/15

TECH TIP

Flame heating involves igniting fuel gases mixed with air or oxygen. Examples include flame straightening, flame hardening, hot forming and heating in conjunction with welding. The flame is used for melting purposes in flame brazing. Acetylene, propane, propylene and natural gas are used as fuel gases for flame heating. The flame temperature and intensity depend on the fuel gases used and oxygen mixing ratio.

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.

MAP/Pro™/PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

TIP SERIES		TWO PIECE		CUTTING OXYGEN PSIG	FUEL GAS PSIG
PART #	TIP SIZE	CUT METAL THICKNESS	CUT OXY DRILL SIZE		

CA43
CA43A

40F

63
SERIES

SCRAP
AND BEVEL
CUTTING



6290NXPM
[TWO PIECE]



TECH TIP

Beveling allows a full-penetration weld (if required). It gives the torch tip access to deep-lying base metal, prepares a well-defined, uniform container for molten metal and ensures quality welds. Bevel angles and root openings are essential for adequate weld penetration in thick plates or pipes. The joint design must specify all relevant dimensions and angles. The joint design and root opening specification are both part of the weld procedure.

LIQUID AIR® FUEL GAS/MAP/Pro™/PROPYLENE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

TIP SERIES		TWO PIECE		FUEL GAS PSIG	KERF WIDTH
PART #	CUT METAL THICK.	CUT OXY DRILL SIZE	CUTTING OXYGEN PSIG		

N/A

N/A

63
SERIES

HIGH SPEED
MACHINE
CUTTING
WITH
SPECIAL
CUTTING
ORIFICE



6290VVCN
[TWO PIECE]



6290VVCN-5/0	3/16"	75	40	5/15	.05
6290VVCN-4/0	1/4"	68	50	5/15	.06
6290VVCN-3/0	3/8"	64	75	5/15	.07
6290VVCN-00	1/2"	62	75	5/15	.07
6290VVCN-0	3/4"	59	90	5/15	.08
6290VVCN-0-1/2	1 1/4"	57	100	5/15	.08
6290VVCN-1	2 1/2"	56	100	5/15	.09
6290VVCN-1-1/2	3"	54	100	5/15	.11
6290VVCN-2	5"	53	100	5/15	.12
6290VVCN-2-1/2	6"	51	100	5/15	.13
6290VVCN-3	7"	49	100	5/15	.14
6290VVCN-4	8"	45	100	5/15	.16
6290VVCN-5	9"	41	90	5/15	.20
6290VVCN-5-1/2	9 1/2"	40	90	5/15	.25

TECH TIP

Cutting is initiated by heating the edge of the steel to near melting point using the pre-heat jets only, then using the separate cutting oxygen valve to release the oxygen from the central jet. The steel is instantly oxidized into molten iron oxide, producing the cut. Robotic oxy-fuel cutters sometimes use a high-speed divergent nozzle. This uses an oxygen jet that opens slightly along its passage. This allows the compressed oxygen to expand as it leaves, forming a high-velocity jet that spreads less than a parallel-bore nozzle, allowing a cleaner cut. These are not used for cutting by hand since they need very accurate positioning above the work. Their ability to produce almost any shape from large steel plates gives them a secure future in shipbuilding and in many other industries.

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.



ELBOW/MIXER COMPONENTS

TYPE79E
ELBOW

60°
ANGLE

NOTE: For MAP//Pro™, Propane or Natural Gas, use one size larger tip for heating, brazing and soldering.

UM79
MIXER

USE WITH
WH79
HANDLE

UM43
MIXER

USE WITH
43L9
HANDLE

OXYACETYLENE/HYDROGEN

APPLICATION
WELDING
HEATING
BRAZING
SOLDERING

(23A90)

79E



TIP SERIES	ELBOW ONLY PART#	MIXER FOR 43L9 HANDLE	MIXER FOR WH79 HANDLE	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXY-FUEL ACETYLENE EQUAL PRESSURE (PSIG)	FLOW (SCFH) EACH GAS	USE WITH WELDING HANDLE#
79E	TYPE79E-0	UM43	UM79	23/64"-26(M)	1/64"	1	3	43L9 AND
	TYPE79E-1	UM43	UM79	23/64"-26(M)	1/32"	1	5	43L9E
	TYPE79E-2	UM43	UM79	23/64"-26(M)	3/64"	2	3	USE WITH
	TYPE79E-3	UM43	UM79	23/64"-26(M)	1/16"	3	8	UM43 MIXER
	TYPE79E-4	UM43	UM79	23/64"-26(M)	3/32"	4	10	23/64"-26(F)
	TYPE79E-5	UM43	UM79	23/64"-26(M)	1/8"	5	15	
	TYPE79E-6	UM43	UM79	23/64"-26(M)	3/16"	6	18	WH79 AND
	TYPE79E-7	UM43	UM79	23/64"-26(M)	1/4"	7	20	WH79-2
	TYPE79E-8	UM43	UM79	23/64"-26(M)	5/16"	8	30	USE WITH
	TYPE79E-9	UM43	UM79	23/64"-26(M)	3/8"	9	40	UM79 MIXER
	TYPE79E-10	UM43	UM79	23/64"-26(M)	1/2"	10	50	23/64"-26(F)



TECH TIP

The immediate work area must be clean from all contaminants. This includes removal of dirt, grease, oil, rust, paint, plastic coverings, etc., from the surface of the parts being welded. The method of cleaning depends on the material to be removed and the location of the work piece. For most construction and production equipment, steam cleaning is recommended. When this is not possible, solvent cleaning can be used. Blast cleaning with abrasives is also used. For small parts, pickling or solvent dip cleaning can be used and, finally, power tool cleaning with brushes, grinding wheels, disc grinding, etc., can be employed. The time spent cleaning a weld repair area will pay off in the long run. Be sure that all solvents have been removed before applying heat.

OXYACETYLENE

TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER PART# ONLY	ELBOW TO MIXER THREAD SPEC	OXY-FUEL ACETYLENE EQUAL PRESSURE (PSIG)	FLOW (SCFH) EACH GAS	USE WITH WELDING HANDLE#
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APPLICATION
PREHEATING
STRAIGHTENING

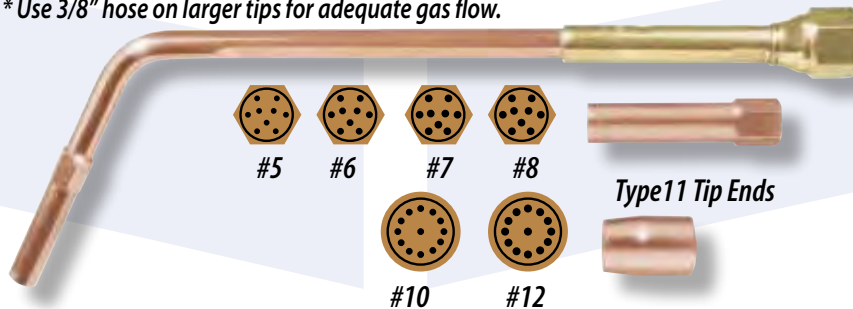
11H

INDUSTRY TERM: ROSEBUD

HEATING TIPS: COMPLETE Assembly

TYPE11H-5	TYPE11TE-5	UM43D	7/16"-27(M)	7	35
TYPE11H-6	TYPE11TE-6	UM43D	7/16"-27(M)	8	40
TYPE11H-7	TYPE11TE-7	UM43D	7/16"-27(M)	10	50
TYPE11H-8	TYPE11TE-8	UM43D	7/16"-27(M)	12	60
TYPE11H-10*	TYPE11TE-10	UM43D2	1/2"-27(M)	15	90
TYPE11H-12*	TYPE11TE-12	UM43D2	1/2"-27(M)	15	150

* Use 3/8" hose on larger tips for adequate gas flow.



43L9

TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER PART# ONLY	ELBOW TO MIXER THREAD SPEC	OXY-FUEL ACETYLENE EQUAL PRESSURE (PSIG)	FLOW (SCFH) EACH GAS	USE WITH WELDING HANDLE#
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7928-79

APPLICATION

PRE-HEATING
STRAIGHTENING

INDUSTRY TERM: ROSEBUD

HEATING TIPS: COMPLETE Assembly

TYPE7928-79-2	TYPE28TE-2	UM79	23/64"-26(M)	6	25
TYPE7928-79-4	TYPE28TE-4	UM79	23/64"-26(M)	8	35
TYPE7928-79-6	TYPE28TE-6	UM79	23/64"-26(M)	10	40
TYPE7928-79-8	TYPE28TE-8	UM79	23/64"-26(M)	12	50



WH79-2

TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER PART# ONLY	ELBOW TO MIXER THREAD SPEC	OXY-FUEL ACETYLENE EQUAL PRESSURE (PSIG)	FLOW (SCFH) EACH GAS	USE WITH WELDING HANDLE#
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7928E

APPLICATION

PRE-HEATING
STRAIGHTENING

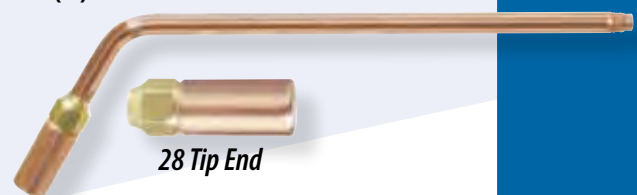
INDUSTRY TERM: ROSEBUD

HEATING TIPS: ELBOW and Tip End

TYPE7928E-2	TYPE28TE-2	UM79	23/64"-26(M)	6	25
TYPE7928E-4	TYPE28TE-4	UM79	23/64"-26(M)	8	35
TYPE7928E-6	TYPE28TE-6	UM79	23/64"-26(M)	10	40
TYPE7928E-8	TYPE28TE-8	UM79	23/64"-26(M)	12	50



48



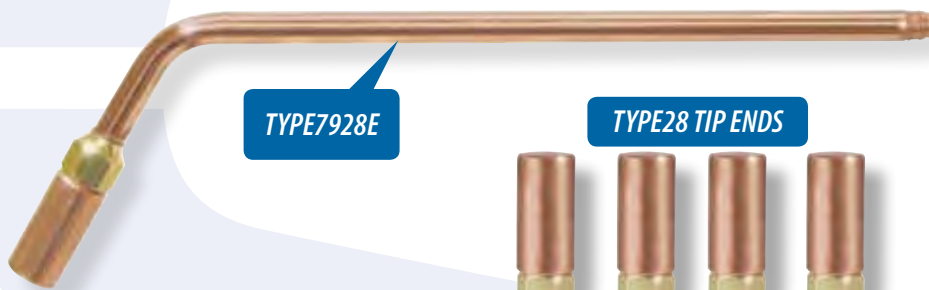
WH79



TIPS BRAZING/HEATING

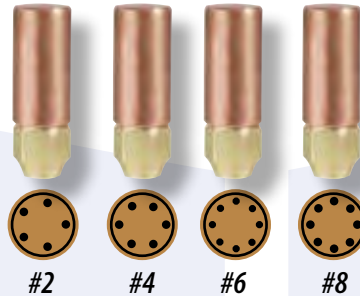
STYLE

ELBOW/MIXER COMPONENTS



TYPE7928E

TYPE28 TIP ENDS

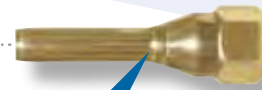


#2

#4

#6

#8



UM79
MIXER

USE WITH
WH79
HANDLE



UM43
MIXER

USE WITH
43L9
HANDLE

OXYACETYLENE/MAP/Pro™/PROPANE/NAT. GAS

TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER PART# ONLY	ELBOW TO MIXER THREAD SPEC	OXY-FUEL ACETYLENE EQUAL PRESSURE (PSIG)	FLOW (SCFH) EACH GAS	USE WITH WELDING HANDLE#
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APPLICATION

7928-43

PRE-HEATING
STRAIGHTENING

HEATING TIPS: COMPLETE ASSEMBLY

TYPE7928-43-2	TYPE28TE-2	UM43	23/64"-26(M)	6	25
TYPE7928-43-4	TYPE28TE-4	UM43	23/64"-26(M)	8	35
TYPE7928-43-6	TYPE28TE-6	UM43	23/64"-26(M)	10	40
TYPE7928-43-8	TYPE28TE-8	UM43	23/64"-26(M)	12	50

43L9



INDUSTRY TERM: ROSEBUD



28 Tip End

#2

#4

#6

#8

TIP SERIES	COMPLETE ASSEMBLY PART#	TIP END ONLY	MIXER PART# ONLY	ELBOW TO MIXER THREAD SPEC	OXY-FUEL ACETYLENE EQUAL PRESSURE (PSIG)	FLOW (SCFH) EACH GAS	USE WITH WELDING HANDLE#
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APPLICATION PRE-HEATING STRAIGHTENING

7928E

HEATING TIPS: ELBOW and Tip End

TYPE7928E-2	TYPE28TE-2	UM43	23/64"-26(M)	6	25
TYPE7928E-4	TYPE28TE-4	UM43	23/64"-26(M)	8	35
TYPE7928E-6	TYPE28TE-6	UM43	23/64"-26(M)	10	40
TYPE7928E-8	TYPE28TE-8	UM43	23/64"-26(M)	12	50

43L9E



INDUSTRY TERM: ROSEBUD



28 Tip End

#2

#4

#6

#8

OXY/FUEL GAS ONLY (Do not use with Acetylene)

ELBOW SERIES	ELBOW ONLY PART #	LENGTH	ELBOW TIP END THREAD SPECS	MIXER ONLY PART #	MIXER END THREAD SPEC	USE WITH WELDING HANDLE #
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23

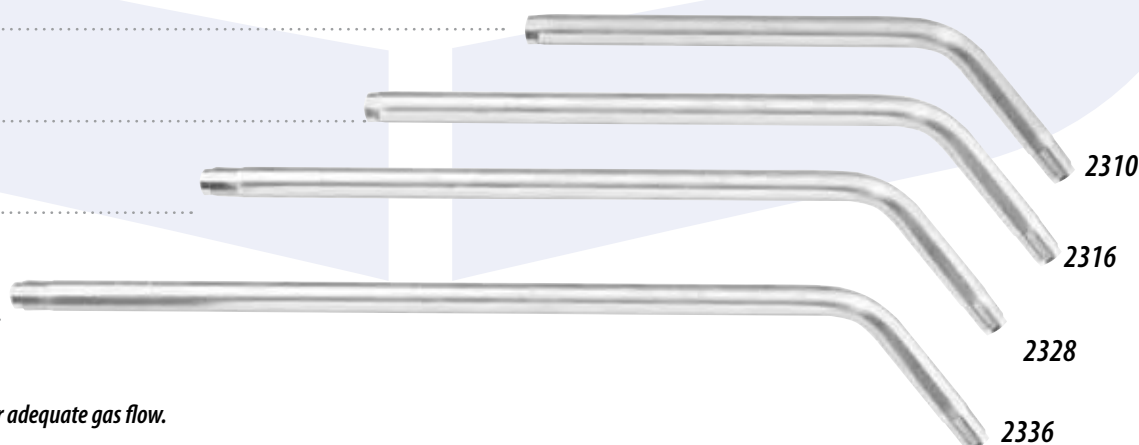
HEATING COMPONENTS

2310	10"	1/2"-25(M) [Both Ends]	UM43F	1/2"-25(F)
2316	16"	1/2"-25(M) [Both Ends]	UM43F	1/2"-25(F)
2328	28"	1/2"-25(M) [Both Ends]	UM43F	1/2"-25(F)
2336	36"	1/2"-25(M) [Both Ends]	UM43F	1/2"-25(F)

43L9



UM43F



Use 3/8" hose for adequate gas flow.

TIP END SERIES	TIP END PART #	TIP END THREAD SPEC	OXYGEN (PSIG)	FLOW (SCFH)	PROPANE (PSIG)	FLOW (SCFH)	HEAT OUTPUT (BTU/HR)
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DO NOT USE ACETYLENE

2290

HEATING TIPS (Fuel Gas only)

2290-1H	1/2"-25(F)	10-25	160-320	4-12	40-80
2290-2H	1/2"-25(F)	15-45	220-520	7-22	55-130
2290-3H	1/2"-25(F)	25-70	340-920	8-25	85-230
2290-4H*	1/2"-25(F)	50-110	640-1300	10-30	160-325
2290-5H*	1/2"-25(F)	60-135	720-1600	14-40	180-400

100,000-200,000
140,000-330,000
215,000-580,000
400,000-820,000
450,000-1,000,000

NOTE:

For high demand operations, manifolding of cylinders may be required.

2290-1H



2290-2H



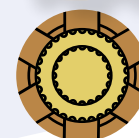
2290-3H



2290-4H



2290-5H



NOTE:

To calculate heat output for propylene, use 2400 BTU/cu. ft. X flow CFH

NOTE:

*Use 3/8" hose for maximum flow and BTU output.



OUTFITS CUTTING & WELDING



ROUGHNECK HEAVY DUTY

The UniWeld Roughnecks are complete heavy duty Oxyacetylene outfits for industrial and commercial cutting, welding, brazing and heating, using most fuel gases.

KX98 A-Style

CA98A CUTTING ATTACHMENT with silver brazed triangular tube construction.

Tip mix technology is the safest and most reliable choice for cutting applications.

RV SERIES REGULATORS have single scale 2 1/2" gauges, stainless steel diaphragms and accessibility to the seat from the rear.

98L9 WELDING HANDLE with separate two tube silver brazed construction and ribbed outer handle that is vented for safety.



OPH1-730 A.L.C.

CA730 CUTTING ATTACHMENT with its three tube in-line construction. **Tip mix technology** for maximum safety, features an ergonomically designed oxygen lever. *NOTE: will work with A.L.C. handles.*

RV SERIES REGULATORS have single scale 2 1/2" gauges, stainless steel diaphragms and accessibility to the seat from the rear.

WH730 WELDING HANDLE can be used with most fuel gases and Acetylene for heating, brazing, welding and other flame processes. *NOTE: will work with A.L.C. cutting attachments and A.L.C. welding tips.*

Cutting Capacity: 1/2" with supplied tip; up to 8" with optional tips [See pgs. 62-65]

Welding Capacity: 1/4" with supplied tips; up to 1 1/2" with optional tips [See pgs. 67, 68]

Heating Tips: [See pgs. 69, 70, 71]



ROUGHNECK HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KX98 UPC# 86002	98L9	CA98A	144-1	TYPE 98 -1, -3, -5	TYPE 911 8	RV8010 CGA540	RV8011 CGA510	TWIN HOSE 25' 1/4" "B" GOGGLES & LIGHTER
PART# KX98-4 UPC# 86008	98L9	CA98A	144-1	TYPE 98 -1, -3, -5	TYPE 911 8	RV8010 CGA540	RV8011 CGA510	NO ACCESSORIES
ROUGHNECK A.L.C. HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# OPH1-730 UPC# 86400	WH730	CA730	144-1	TYPE 730 -1, -3, -5	TYPE 73 8	RV8010 CGA540	RV8011 CGA510	TWIN HOSE 25' 1/4" "B" GOGGLES & LIGHTER
PART# OPH1-730-4 UPC# 86401	WH730	CA730	144-1	TYPE 730 -1, -3, -5	TYPE 73 8	RV8010 CGA540	RV8011 CGA510	NO ACCESSORIES

ROUGHNECK AND ROUGHNECK A.L.C. OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]



KV98A

FABRICATOR HEAVY DUTY



MADE IN U.S.A.

The Uniweld Fabricator is a basic heavy duty Oxyacetylene outfit for cutting, welding, brazing & heating.

CA98A CUTTING ATTACHMENT with silver brazed triangular tube construction and **tip mix technology** for maximum safety.

RV or RUH83 SERIES REGULATORS with large, easy to read single scale 2 1/2" gauges.

98L9 WELDING HANDLE can be used with most fuel gases for heating and brazing or welding with acetylene.

Cutting Capacity: 8" with optional tips [See pgs. 62-65]

Welding Capacity: 1/2" with optional tips [See pgs. 67, 68]

Heating Tips: [See pgs. 67, 71]

FABRICATOR HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	GAUGES
PART# KV98A UPC# 86700	98L9	CA98A	RV8010 CGA540	RV8011 CGA510	2 1/2"
PART# KR98A UPC# 86800	98L9	CA98A	RUH8310 CGA540	RUH8311 CGA510	2 1/2"

FABRICATOR OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

PROFESSIONAL



MADE IN U.S.A.

The Uniweld Professional is a basic heavy duty Oxyacetylene cutting outfit.

CUTTING TORCH with precision machined forged brass head and body. 50A (bottom rear lever) or 54A (bottom middle lever). Three tube triangular construction and **tip mix technology** for maximum safety. For acetylene and most fuel gases 3 PSIG and above with proper tip.

RV or RUH83 SERIES REGULATORS with single scale 2 1/2" gauges.



KV50A-21

Cutting Capacity: up to 12" with proper tip [See pgs. 62-65]

PROFESSIONAL HEAVY DUTY	HAND CUTTING TORCH	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	GAUGES
PART# KV50A-21 UPC# 86200	50A-21 90°	RV8010 CGA540	RV8011 CGA510	2 1/2"
PART# KV54A-21 UPC# 86300	54A-21 90°	RV8010 CGA540	RV8011 CGA510	2 1/2"

PROFESSIONAL HEAVY DUTY	HAND CUTTING TORCH	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	GAUGES
PART# KR50A-21 UPC# 86600	50A-21 90°	RUH8310 CGA540	RUH8311 CGA510	2 1/2"
PART# KR54A-21 UPC# 86500	54A-21 90°	RUH8310 CGA540	RUH8311 CGA510	2 1/2"

PROFESSIONAL OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]



OUTFITS CUTTING & WELDING

STYLE

ALL-AMERICAN HEAVY DUTY

The Uniweld heavy duty All-American is a tip mix Oxyacetylene outfit for cutting, brazing and welding.

CA98A CUTTING ATTACHMENT with silver brazed triangular tube construction and **tip mix technology** for maximum safety. Used for most industrial and commercial applications.

RV SERIES REGULATORS with large, single scale 2½" gauges and stainless steel diaphragm.

98L9 WELDING HANDLE with separate two tube silver brazed construction and ribbed handle that's vented for safety.



MADE IN U.S.A.



KAV98A

Cutting Capacity: ½" with supplied tip; up to 8" with optional tips [See pgs. 62-65]

Welding Capacity: ⅛" with supplied tip; up to 1½" with optional tips [See pgs. 67, 68]

Heating Tips: [See pgs. 67, 71]

ALL-AMERICAN HEAVY DUTY

WELDING HANDLE

CUTTING ATTACHMENT

CUTTING TIP

WELD/BRAZE TIP

OXYGEN* REGULATOR 5-125 PSIG

ACETYLENE* REGULATOR 2-15 PSIG

ACCESSORIES

PART# KAV98A
UPC# 86004

98L9

CA98A

144-1

TYPE 98
3

RV8010
CGA540

RV8011
CGA510

TWIN HOSE 20' 1/4" "B"
GOOGLES, LIGHTER

PART# KAV98A-4
UPC# 86006

98L9

CA98A

144-1

TYPE 98
3

RV8010
CGA540

RV8011
CGA510

NO ACCESSORIES

ALL-AMERICAN HEAVY DUTY

The Uniweld heavy duty All-American is a tip mix Oxyacetylene outfit for cutting, brazing and welding.

CA98A CUTTING ATTACHMENT with silver brazed triangular tube construction and **tip mix technology** for maximum safety. Used for most industrial and commercial applications.

RUH83 SERIES REGULATORS with tri-layered reinforced diaphragm and single scale 2½" gauges.

98L9 WELDING HANDLE with separate two tube silver brazed construction and ribbed handle that's vented for safety.



MADE IN U.S.A.



KAR98A

Cutting Capacity: ½" with supplied tip; up to 8" with optional tips [See pgs. 62-65]

Welding Capacity: ⅛" with supplied tip; up to 1½" with optional tips [See pgs. 67, 68]

Heating Tips: [See pgs. 67, 71]

ALL-AMERICAN HEAVY DUTY

WELDING HANDLE

CUTTING ATTACHMENT

CUTTING TIP

WELD/BRAZE TIP

OXYGEN* REGULATOR 5-125 PSIG

ACETYLENE* REGULATOR 2-15 PSIG

ACCESSORIES

PART# KAR98A
UPC# 87100

98L9

CA98A

144-1

TYPE 98
3

RUH8310
CGA540

RUH8311
CGA510

TWIN HOSE 20' 1/4" "B"
GOOGLES, LIGHTER

PART# KAR98A-4
UPC# 87102

98L9

CA98A

144-1

TYPE 98
3

RUH8310
CGA540

RUH8311
CGA510

NO ACCESSORIES

ALL-AMERICAN OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]



ALL-TRADES MEDIUM DUTY

The Uniweld All-Trades medium duty tip mix outfit is used for cutting, brazing, heating and welding.

CA370 CUTTING ATTACHMENT with silver brazed triangular tube construction and **tip mix technology** for maximum safety.

RUH82 SERIES REGULATORS with tri-layered reinforced diaphragm and single scale 2" gauges.

WH370 WELDING HANDLE has O-ring sealed tube within a tube design and secure grip, ribbed brass handle.

Cutting Capacity: 1/2" with supplied tip; up to 6" with optional tips [See pgs. 62-65]

Brazing Capacity: 1/4" with supplied tips; up to 3/4" with optional tips [See pg. 67]

Heating Tips: [See pg. 69]

ALL-TRADES A.L.C. MEDIUM DUTY

The Uniweld medium duty All-Trades A.L.C. Style outfit is used for cutting, brazing, heating and welding applications.

CA330 CUTTING ATTACHMENT is compact (8.5") and durable. Silver brazed three tube-in line construction for strength and **tip mix technology** for maximum safety. *NOTE: will work with A.L.C. handles.*

RUH82 SERIES REGULATORS with tri-layered reinforced diaphragm and single scale 2" gauges.

WH330 WELDING HANDLE with tube within a tube design and four O-ring seals for safety and easy service.

NOTE: will work with A.L.C. cutting attachments and A.L.C. welding tips.

Cutting Capacity: 1/2" with supplied tip; up to 6" with optional tips [See pgs. 62-65]

Brazing Capacity: 1/4" with supplied tips; up to 3/4" with optional tips [See pg. 68]

Heating Tips: [See pg. 69]

ALL-TRADES MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KH370 UPC# 87002	WH370	CA370	144-1	TYPE 370 -1, -3, -5	TYPE 37 7	RUH8210 CGA540	RUH8211 CGA510	TWIN HOSE 20' 3/16" "B" GOGGLES, LIGHTER
PART# KH370-4 UPC# 87008	WH370	CA370	144-1	TYPE 370 -1, -3, -5	TYPE 37 7	RUH8210 CGA540	RUH8211 CGA510	NO ACCESSORIES
ALL-TRADES A.L.C. MEDIUM DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# OPH5-330 UPC# 87200	WH330	CA330	144-1	TYPE 330 -2, -3, -5	TYPE 33 5	RUH8210 CGA540	RUH8211 CGA510	TWIN HOSE 20' 3/16" "B" GOGGLES, LIGHTER
PART# OPH5-330-4 UPC# 87201	WH330	CA330	144-1	TYPE 330 -2, -3, -5	TYPE 33 5	RUH8210 CGA540	RUH8211 CGA510	NO ACCESSORIES

ALL-TRADES OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS
- ORDER BY ADDING (-1) TO END OF PART#

*Dual scale gauges and other regulator connections
available upon request. [See pgs. 97, 98]



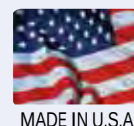
OUTFITS CUTTING & WELDING

STYLE



KR370

ALL-AMERICAN MEDIUM DUTY



The Uniweld All-American medium duty Oxyacetylene outfit is used for cutting, welding & brazing.

- CA370 CUTTING ATTACHMENT** with triangular tube construction and **tip mix technology**.
- RUH82 SERIES REGULATORS** with a tri-layered reinforced diaphragm and single scale 2" gauges.
- WH370 WELDING HANDLE** has an O-ring sealed tube within a tube design and secure grip, ribbed brass handle.

Cutting Capacity: 1/2" with supplied tip; up to 6" with optional tips [See pgs. 62-65]

Welding Capacity: 1/8" with supplied tip; up to 3/4" with optional tips [See pgs. 67, 69]

Heating Tips: [See pgs. 67, 69]

ALL-AMERICAN MEDIUM DUTY

WELDING HANDLE

CUTTING ATTACHMENT

CUTTING TIP

WELD/BRAZE TIP

OXYGEN* REGULATOR 5-125 PSIG

ACETYLENE* REGULATOR 2-15 PSIG

ACCESSORIES

PART# KR370
UPC# 87004

WH370

CA370

144-1

TYPE 370
3

RUH8210
CGA540

RUH8211
CGA510

TWIN HOSE 20' 3/16" "B"
GOOGLES, LIGHTER

PART# KR370-4
UPC# 87006

WH370

CA350

144-1

TYPE 370
3

RUH8210
CGA540

RUH8211
CGA510

NO ACCESSORIES

ALL-AMERICAN II MEDIUM DUTY



The Uniweld All-American II is a medium duty Oxyacetylene outfit for cutting, welding & brazing.

CA370 CUTTING ATTACHMENT features triangular tube construction and **tip mix technology** for maximum safety. Capable of cutting up to 6".*

MR SERIES REGULATORS with cartridge type seat assembly and single scale 2" gauges.

WH370 WELDING HANDLE has an O-ring sealed tube within a tube design and secure grip, ribbed brass handle.

*Cutting Capacity: 1/2" with supplied tip; up to 6" with optional tips [See pgs. 62-65]

Welding Capacity: 1/8" with supplied tip; up to 3/4" with optional tips [See pgs. 67, 69]

Heating Tips: [See pgs. 67, 69]



KM370

ALL-AMERICAN MEDIUM DUTY

WELDING HANDLE

CUTTING ATTACHMENT

CUTTING TIP

WELD/BRAZE TIP

OXYGEN* REGULATOR 5-80 PSIG

ACETYLENE* REGULATOR 2-15 PSIG

ACCESSORIES

PART# KM370
UPC# 88000

WH370

CA370

144-1

TYPE 370
3

MR8210
CGA540

MR8211
CGA510

TWIN HOSE 20' 3/16" "B"
GOOGLES, LIGHTER

PART# KM370-4
UPC# 88002

WH370

CA370

144-1

TYPE 370
3

MR8210
CGA540

MR8211
CGA510

NO ACCESSORIES

ALL-AMERICAN AND ALL-AMERICAN II OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#.

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

THE WURKS®-A MEDIUM DUTY

The Uniweld Wurks®-A is an easy-to-operate, 12 piece, all-purpose outfit for cutting, welding and brazing that's packed in its own rugged Wurks Box with a compartmented accessory tray.

CA370 CUTTING ATTACHMENT with triangular tube construction & **tip mix technology**, can be used with oxyacetylene & most fuel gases 3 PSIG and above.

MR SERIES REGULATORS Single scale 2" gauges.

WH370 WELDING HANDLE has O-Ring sealed tube within a tube design & secure grip, ribbed brass handle.

Cutting Capacity: 1/2" with supplied tip; up to 6" with optional tips [See pgs.62-65]

Welding Capacity: 1/8" with supplied tip; up to 3/4" with optional tips [See pgs.67,69]

Heating Tips: [See pgs.67-69]

Use the Wurks-A for:

- Cutting most Steels
- Creating Metal Artwork
- Auto, Truck and Trailer Repair
- Heating Metal Bars and Pipes for Bending
- Plumbing and General Home Maintenance
- Removing Rusty Nuts from Rusty Bolts
- Building Metal Workstands
- Repairing Garden and Farm Tools

WURKS-A OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#



WURKS-A

THE WURKS-A
MEDIUM DUTY

WELDING
HANDLE

CUTTING
ATTACHMENT

CUTTING
TIP

WELD/BRAZE
TIP
5-80 PSIG

OXYGEN*
REGULATOR
2-15 PSIG

ACETYLENE*
REGULATOR

TOOLBOX
W/TRAY

ACCESSORIES†

PART# WURKS-A
UPC# 88004

WH370

CA370

144-1

TYPE 370
3

MR8210
CGA540

MR8211
CGA510

CC60 BLACK
PLASTIC

12.5' TWIN HOSE
3/16" "B"

†ACCESSORIES INCLUDE: FLIP-UP GOGGLES, SHADE #5 [Pg. 107], FLINT LIGHTER [Pg. 107], TIP CLEANER SET [Pg. 108], LEATHER WELDING GLOVES [Pg. 107]

SCRAPPER™ HEAVY DUTY

As scrap steel prices continue to rise across the country, preparing steel for the scrap yard has become a primary concern in the metal working industry.

This task has become easier with the introduction of the Uniweld **Scrapper** outfit. Starting with a 21" long 50A-21 "tip mix" hand cutting torch and 2 cutting tips, utilizing the safest gas mixing system developed, that keeps you back and away from the heat zone and... following up with two heavy duty single stage **RV** series regulators with stainless steel diaphragms, the **Scrapper** provides you with a safe and efficient money-making method of cutting scrap metal.



SCRAPPER
HEAVY DUTY

CUTTING
HAND TORCH

CUTTING
TIPS

OXYGEN*
REGULATOR
5-125 PSIG

ACETYLENE*
REGULATOR
2-40 PSIG

ACCESSORIES

PART# KV50AS-21
UPC# 86205

50A-21

164-1
164-3

RV8010
CGA540

RV8011
CGA510

TCS TIP CLEANER,
TWIN HOSE 18' 1/4" "B"
SHADE #5 GOGGLES, LIGHTER

SCRAPPER
HEAVY DUTY PROPANE

PART# KV50ASP-21
UPC# 86207

50A-21

229-1
229-3

RV8010
CGA540

RV8012
CGA510

TCP TIP CLEANER,
GRADE "T" TWIN HOSE 18' 1/4" "B"
SHADE #5 GOGGLES, LIGHTER

**SCRAPPER OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS
ORDER BY ADDING (-1) TO END OF PART#**



OUTFITS CUTTING & WELDING



ROLLIN' ROUGHNECK ULTRA HEAVY DUTY

The Uniweld Rollin' Roughneck is the roughest, toughest, most complete portable heavy duty oxyacetylene welding and cutting system you'll ever find.

CA98A CUTTING ATTACHMENT with sturdy triangular tube construction and **tip mix technology** is the most reliable and **SAFEST CHOICE** for cutting applications.

RV SERIES REGULATORS have single scale 2 1/2" gauges, stainless steel diaphragms & accessibility to the seat from the rear.

98L9 WELDING HANDLE can be used with oxyacetylene and most fuel gases for heating and brazing or welding with acetylene.

Cutting Capacity: 1/2" with supplied tip; up to 8" with optional tips [See pgs. 62-65]

Welding Capacity: 1/4" with supplied tips; up to 3" with optional tips [See pg. 67]

Heating Tips: [See pgs. 67, 70, 71] Dimensions: 35 1/4" W • 28" D • 61" H

Weight: 95 LBS (without cylinders).



Part# 509
[cart only]
UPC# 30016

Part# 509FW
[cart only with
built-in firewall]
UPC# 30019

86050



MADE IN U.S.A.

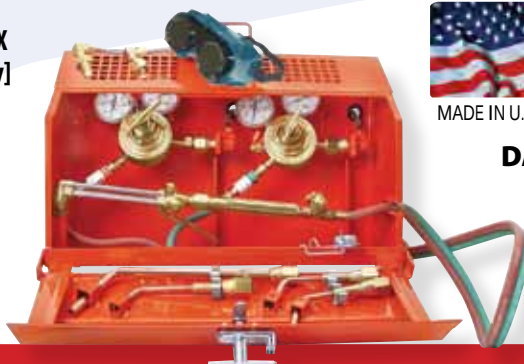
ROLLIN' ROUGHNECK HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ROLLIN' ROUGHNECK CART
PART# 86050 UPC# 86050	98L9	CA98A	144-1	TYPE 98 -1, -3, -5	TYPE 911 8	RV8010 CGA540	RV8011 CGA510	509 W/O CYLINDERS
PART# 86051 UPC# 86051	98L9	CA98A	144-1	TYPE 98 -1, -3, -5	TYPE 911 8	RV8010 CGA540	RV8011 CGA510	509FW† W/O CYLINDERS

ROLLIN' ROUGHNECK INCLUDES: 25' TWIN HOSE, 1/4" "B" FITTINGS [Pg. 105], FLIP-UP GOGGLES, SHADE #5 [Pg. 107], FLINT LIGHTER [Pg. 107], TORCH FLASHBACK ARRESTORS [Pg. 106] INSTALLED AND 18" STAINLESS STEEL PIGTAIL ASSEMBLY. † 509FW COMES WITH BUILT-IN FIREWALL

DA BOX® ULTRA HEAVY DUTY

The Uniweld Da Box® is the perfect outfit to mount on your truck for maximum mobility and security. Includes A-Style Roughneck outfit, locking latch, heavy gauge steel construction and welded carry handle. Add the desired optional braided stainless steel hose pigtails (at right) to complete the Da Box® Outfit.

Part# DA BOX
[cabinet only]
UPC# 30017
Accepts all
Uniweld
Roughneck
Outfits



MADE IN U.S.A.

DABOX-A

PIGTAILS

PART#	UPC#	LENGTH	DESCRIPTION
PT300-24	43601	24"	Flexible Stainless Steel Pigtail Assemblies with Brass Fittings CGA300 Acetylene
PT300-36	43602	36"	
PT300-48	43603	48"	
PT510-24	43621	24"	Flexible Stainless Steel Pigtail Assemblies with Brass Fittings CGA510 Acetylene or Propane
PT510-36	43622	36"	
PT510-48	43623	48"	
PT540-24	43631	24"	Flexible Stainless Steel Pigtail Assemblies with Brass Fittings CGA540, Oxygen, 3000 PSIG
PT540-36	43632	36"	
PT540-48	43633	48"	

ADDITIONAL PIGTAILS AVAILABLE ON REQUEST

Dimensions: 23" W • 10" D • 20" H

Weight: 39 LBS (empty).

DA BOX® HEAVY DUTY OUTFIT	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	DA BOX BOX
PART# DABOX-A UPC# 86250	98L9	CA98A	144-1	TYPE 98 -1, -3, -5	TYPE 911 8	RV8010 CGA540	RV8011 CGA510	DA BOX

DA BOX-A INCLUDES: 25' TWIN HOSE, 1/4" "B" FITTINGS [Pg. 105], FLIP-UP GOGGLES, SHADE #5 [Pg. 107], FLINT LIGHTER [Pg. 107], CGA510 POL to CGA300 CA ADAPTOR [Pg. 97], REGULATOR FLASHBACK ARRESTOR INSTALLED [Pg. 106]

*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

FORGED BRASS HEAD

CA98A
TIP MIX

**STAINLESS STEEL
BALL POINT VALVE WITH
TEFLON® PACKING**

**HAND TIGHT NUT
WITH TWO
O-RING SEALS**

**RIGID THREE TUBE
TRIANGULAR, SILVER
BRAZED CONSTRUCTION**

**PUSHROD TYPE CUTTING
OXYGEN VALVE THAT'S EASY
TO ADJUST AND REPAIR**

**FORGED BRASS
CUTTING LEVER**

**A-STYLE TIP SEATING AREA
3 TAPERED SEATS**

**HEAD
ANGLES**

90°

75°

TIPMIX
A-STYLE

A.I.C.

**PART#
UPC#**

CA98A
02551

CA98
02550

CA370
02150

CA371
02151

CA100
02700

CA730
02250

CA731
02251

CA330
02050

CA331
02051

LENGTH

10"

10"

8³/₄"

8³/₄"

7"

11¹/₄"

11¹/₄"

8¹/₂"

8¹/₂"

WEIGHT

26 OZ.

26 OZ.

25 OZ.

25 OZ.

10.8 OZ.

28.5 OZ.

28.5 OZ.

18 OZ.

18 OZ.

HEAD ANGLE

90°

75°

90°

75°

90°

90°

75°

90°

75°

CUTTING CAPACITY*

8"

8"

6"

6"

2"

8"

8"

6"

6"

TIP STYLE*

A

A

A

A

CT100

A

A

A

A

**COMPATIBLE
WELDING
HANDLES**

98L9
98L11

98L9
98L11

WH370

WH370

WH550
WH250
71

WH730

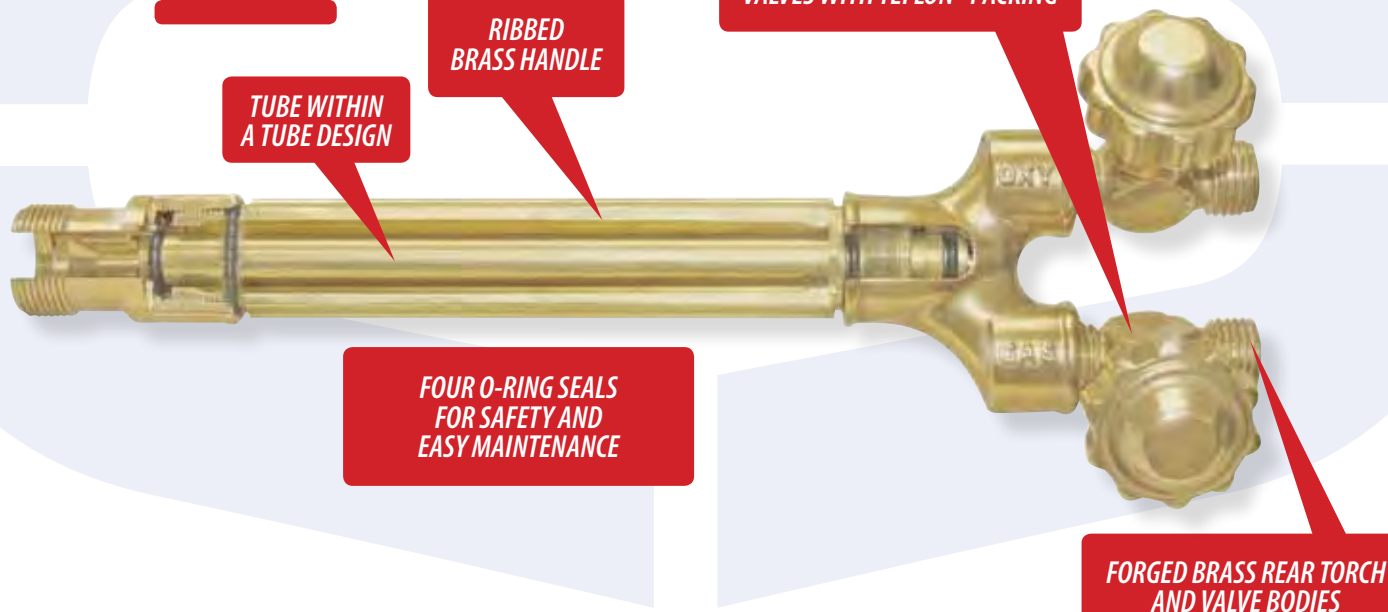
WH730

WH330

WH330

***SEE PAGES 62-66 FOR A-STYLE CUTTING TIPS
AND SPECIAL PURPOSE TIP SELECTION**

WH370



A-STYLE

A-STYLE

A-STYLE

V-STYLE

A.L.C.

A.L.C.



PART# UPC#	98L9** 00500	98L11** 00501	WH370 00200	71** 00300	WH730 00400	WH330 00050
LENGTH	9"	11"	8 ³ / ₄ "	6"	8 ³ / ₄ "	8"
WEIGHT	18 OZ.	21 OZ.	20 OZ.	8 OZ.	18.5 OZ.	13.5 OZ.
HOSE CONNECTION	"B" 9/16"-18			"A" 3/8"-24 THREAD		
WELDING CAPACITY*	1 ¹ / ₄ "	1 ¹ / ₄ "	1 ¹ / ₄ "	1/4"	1 ¹ / ₄ "	1 ¹ / ₄ "
COMPATIBLE CUTTING ATTACHMENTS	CA98A(90°) CA98(75°)	CA98A(90°) CA98(75°)	CA370(90°) CA371(75°)	CA550(90°) CA250(90°) CA100(90°)	CA730(90°) CA731(75°)	CA330(90°) CA331(75°)

** HAS TWO SILVER BRAZED TUBES INSIDE A VENTED BRASS HANDLE

*SEE PAGES 67-71 FOR WELDING, BRAZING, HEATING TIPS and MIXER INFORMATION.

54A-21
TIP MIX

CNC PRECISION
MACHINED
FORGED BRASS HEAD

RIGID THREE TUBE
TRIANGULAR SILVER
BRAZED CONSTRUCTION

HEAVY DUTY RIBBED
BRASS HANDLE

TWO TUBE SILVER
BRAZED VENTED
CONSTRUCTION

FIELD REPLACEABLE
EXTERNAL
CHECK VALVES†

A-STYLE
3 TAPERED
SEATS

PUSHROD TYPE CUTTING
OXYGEN VALVE DESIGNED
FOR EASE OF SERVICE
AND REPAIR

STAINLESS STEEL
BALL POINT
VALVES WITH
TEFLON® PACKING

STAINLESS STEEL HEAD • STAINLESS STEEL HEAD • STAINLESS STEEL HEAD •
52A-21; 56A-21
FOR SEVERE
SERVICE
APPLICATIONS

HEAD
ANGLES

90°

75°

180°

30SA-48 NOT SHOWN

50A-48 NOT SHOWN

HEAD ANGLE 90°	PART# UPC#	30SA-18 04406	30SA-21 04421	30SA-36 04411	30SA-48 04416	50A-21 04501	50A-36 04506	50A-48 04511	54A-21* 04601	54A-36* 04606	52A-21 04551	56A-21 04651
HEAD ANGLE 75°	PART# UPC#	30S-18 04405	30S-21 04420	30S-36 04410	30S-48 04415	50-21 04500	50-36 04505	50-48 04510	54-21* 04600	54-36* 04605	N/A	N/A
HEAD ANGLE 180°	PART# UPC#	30SB-18 04407	30SB-21 04422	30SB-36 04412	30SB-48 04417	50B-21 04502	50B-36 04507	50B-48 04512	54B-21* 04602	54B-36* 04607	N/A	N/A
TORCH LENGTH		18"	21"	36"	48"	21"	36"	48"	21"	36"	21"	21"
WEIGHT		58 OZ.	71 OZ.	84 OZ.	52 OZ.	58 OZ.	71 OZ.	84 OZ.	38 OZ.	38 OZ.	40 OZ.	40 OZ.
LEVER POSITION		BOTTOM REAR							BOTTOM MIDDLE		BOT. REAR	BOT. MID.
CUTTING CAPACITY**		12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
TIP STYLE		A	A	A	A	A	A	A	A	A	A	A

**SEE PAGES 62-66 FOR A-STYLE CUTTING TIPS and SPECIAL PURPOSE TIP SELECTION
* ADDITIONAL TORCH LENGTHS ARE AVAILABLE, EXCEPT FOR SERIES 54 & 56

†Hand Cutting Torches come with Check Valves installed. Add (FB) to Part# to substitute U.L. Listed Flashback Arrestors for Check Valves. Uniweld Check Valves & Flashback Arrestors are both field replaceable [See pg. 106]



TORCHES MACHINE CUTTING

STYLE

64 SERIES TIP MIX

PRECISION
REAMED
SEATS

HEAVY DUTY BRASS
STANDARD 1-3/8" BARREL

FOUR POSITION RACK
ADJUSTMENT 90° APART

QUICK
OPENING
VALVE

64-TRL

STAINLESS STEEL BALL
POINT PREHEAT VALVES

64 SERIES FOR MOST FUEL GASES

PART# UPC#	64-6 04702	64 04705	64-6R 04705	64-R 04705
BARREL LENGTH	6"	10"	6"	10"
TWO HOSE W/LEVER ACTION OXYGEN CUTTING VALVE	YES	YES	YES	YES
CUTTING CAPACITY*	8"	8"	8"	8"
INCLUDES RACK	NO	NO	YES	YES

PART# UPC#	64-T 04702	64-TL 04705	64-6TR 04705	64-TR 04705	64-TRL 04710
BARREL LENGTH	6"	10"	6"	10"	18"
THREE HOSE WITH QUICK OPENING OXYGEN VALVE	YES	YES	YES	YES	YES
CUTTING CAPACITY*	15"	15"	15"	15"	15"
INCLUDES RACK	NO	NO	YES	YES	YES

TRAKUTTER™
OXY/FUEL

UCM200T | UCM200
UCM220T | UCM220
TRACKS INCLUDED | TRACKS NOT INCLUDED

The Uniweld TRAKUTTER is a portable track-style machine that can operate on its own track for precision straight line cutting.

CUTTING MACHINE with 32 pitch pinion torch holder designed for 1 3/8" (35mm) barrel diameter. Fits Uniweld machine torches; Series 63, 64 and 68

- Power: AC110V or 220V, 50/60 Hz
- Large adjustment knobs and wing nuts for lock-down
- 3' manifold to torch twin hose and two hose manifold block
- Additional hoses required Torch not included
- Speed Range: 6" (150mm) per/min to 31" (800mm) per/min.
- Racking distance up to 8" from the machine body
- Single cone speed changer; variable speed in both forward and reverse.
- 6 ft. of Track included with UCM200T and UCM220T.
- 16" power cord



OPTIONAL TRACK SECTION

PART# CMTR3X2 UPC# 04352

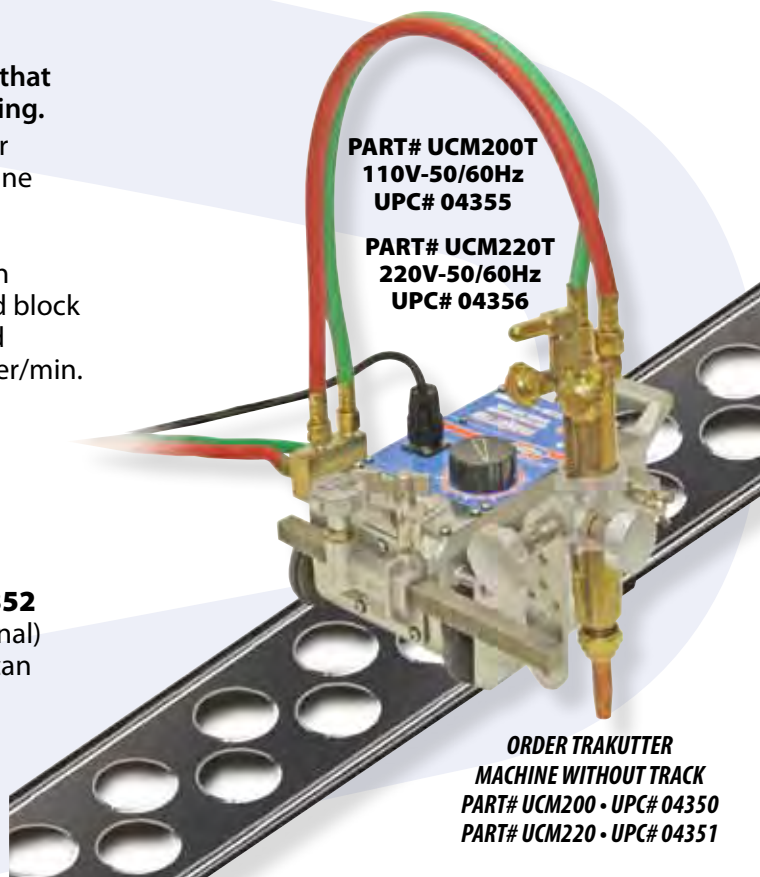
3' Track sections (set of 2; optional) for line cutting. Track sections can be securely interlocked for added length.

*SEE PAGES 62-66 FOR
ALL GASES CUTTING TIPS.

61

PART# UCM200T
110V-50/60Hz
UPC# 04355

PART# UCM220T
220V-50/60Hz
UPC# 04356



**ORDER TRAKUTTER
MACHINE WITHOUT TRACK**
PART# UCM200 - UPC# 04350
PART# UCM220 - UPC# 04351

ACETYLENE

USE WITH SERIES
CUTTING ATTACHMENT HAND CUTTING TORCHES MACHINE CUTTING TORCHES

APPLICATION

CA98, CA730 30, 50, 64
CA370, CA330 54 & 56 SERIES

GENERAL
PURPOSE
HAND
CUTTING
MACHINE
CUTTING



144
[ONE PIECE]
CLA802



TIP SERIES

ONE PIECE

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE PSIG	SPEED I.P.M.
			PSIG	SCFH		
144-00	1/8"	68	25/30	30	2	21/24
144-0	1/4"	62	25/30	60	2	20/23
144-1	3/8"	56	25/30	85	3	18/21
144-2	3/4"	54	35/40	130	3	14/17
144-3	1 1/2"	52	45/50	190	3	11/14
144-4	2 1/2"	49	55/60	200	3	9/12
144-5	3"	45	55/60	310	4	7/10
144-6	5" - 7"	41	55/60	490	5	5/6
144-8	8"	30	65/70	550	5	4/5

TECH
TIP

A damaged seating surface on either the tip or the head can create a dangerous condition, resulting in a backfire or flashback. This may damage the cutting torch. If the seating surface of a tip becomes damaged, DO NOT use it. Discard the damaged tip.

USE WITH SERIES
CUTTING ATTACHMENT HAND CUTTING TORCHES MACHINE CUTTING TORCHES

APPLICATION

CA98, CA730 30, 50, 64
CA370, CA330 54 & 56 SERIES

GENERAL
PURPOSE
CUTTING

FOR RUSTED
AND PAINTED
SURFACES



164 [ONE PIECE]
CLA803



TIP SERIES

ONE PIECE

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE PSIG	SPEED I.P.M.
			PSIG	SCFH		
164-00	1/8"	68	20/25	30	5	28/32
164-0	5/16"	62	20/25	60	5	25/30
164-1	1/2"	56	25/30	85	5	24/28
164-2	1"	54	30/40	130	8	17/20
164-3	1 3/4"	52	40/50	190	8	12/17
164-4	2 1/2"	49	45/55	200	10	10/13
164-5	4"	45	45/60	310	10	9/12
164-6	6"	41	50/70	490	12	7/9
164-7	8"	34	55/85	520	15	5/6
164-8	10"	30	55/95	550	15	3/5
164-9	12"	26	65/95	650	15	2/4
164-10	13"	18	70/100	715	15	1/3

USE WITH SERIES
CUTTING ATTACHMENT HAND CUTTING TORCHES MACHINE CUTTING TORCHES

APPLICATION

CA98, CA730 30, 50, 64
CA370, CA330 54 & 56 SERIES

CUTTING
CLEAN PLATE
CLOSE CIRCLE
PREHEAT
PATTERN



138 [ONE PIECE]



TIP SERIES

ONE PIECE

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE PSIG	SPEED I.P.M.
			PSIG	SCFH		
138-00	1/8"	68	25/30	30	3	20/23
138-0	1/4"	62	25/30	54	3	18/22
138-1	3/8"	56	35/40	80	3	18/20
138-2	3/4" - 1"	54	45/50	140	3	13/15
138-3	1 1/2" - 2"	52	45/50	190	3	10/13
138-4	2 1/2"	49	45/50	260	3	8/10

TECH
TIP

The ideal cut is a narrow gap with a sharp edge on either side of the workpiece. Overheating the workpiece and thus melting through it, causes a rounded edge.



TIPS CUTTING

STYLE

ACETYLENE

USE WITH SERIES
CUTTING ATTACHMENT
HAND CUTTING TORCHES
MACHINE CUTTING TORCHES

CA98, CA730
CA370, CA330

30, 50,
54 & 56

N/A



APPLICATION

GROOVING
GOUGING
REMOVING
WELD METAL
TIP BENT 20°



183 [ONE PIECE]

TIP SERIES

ONE PIECE

PART #

DEPTH

CUTTING
OXYGEN
PSIG

ACETYLENE
PSIG

183-6

1/8" - 1/4"

50/65

3

183-8

1/4" - 3/8"

65/85

5

183-10

3/8" - 1/2"

84/100

7

183-12

7/16" - 5/8"

90/110

9

TECH
TIP

In oxyacetylene gouging, equal quantities of oxygen and acetylene are used to set a near-neutral preheating flame. When the preheating flame and oxygen jet are correctly set, the gouge has a uniform profile and its surfaces are smooth.

USE WITH SERIES
CUTTING ATTACHMENT
HAND CUTTING TORCHES
MACHINE CUTTING TORCHES

CA98, CA730
CA370, CA330

30, 50,
54 & 56

64
SERIES

APPLICATION
HAND CUTTING
RIVET HEADS
OR
MACHINE
CUTTING 45°
BEVELS



195 [ONE PIECE]

TIP SERIES

ONE PIECE

PART #

CUT METAL
THICKNESS

CUT OXY
DRILL SIZE

CUTTING
OXYGEN
PSIG

ACETYLENE
PSIG

SPEED
I.P.M.

195-1

3/8"

56

30/35

3/5

20/24

195-2

1/2"

54

35/40

3/7

14/18

195-3

3/4"

52

40/45

5/10

12/15

TECH
TIP

Rivet washing tips use a low-velocity cutting oxygen stream to blow rivets through a plate without damaging it. Burn the rivet heads off by placing the tip perpendicular to the rivet and NOT by trying to cut the rivet head off from the side as you will likely score and damage the base steel material. After removal of the rivet head, the rivet shank needs to be removed by mechanical means only.

USE WITH SERIES
CUTTING ATTACHMENT
HAND CUTTING TORCHES
MACHINE CUTTING TORCHES

CA100

N/A

N/A

APPLICATION

GENERAL
PURPOSE
CUTTING



CT100 [ONE PIECE]

TIP SERIES

ONE PIECE

PART #

CUT METAL
THICKNESS

CUT OXY
DRILL SIZE

CUTTING
OXYGEN
PSIG SCFH

ACETYLENE
PSIG

SPEED
I.P.M.

CT100-00

1/4"

67

20/25

30/35

5

20/23

CT100-0

1/2"

60

20/25

40/60

5

16/19

CT100-1

3/4"

56

30/35

80/85

5

14/17

CT100-2

1 1/2"

53

35/40

140/180

7

11/14

TECH TIP

One piece tips are used with acetylene and are made from copper alloy to withstand the heat of the cutting process. The copper alloy is machined, drilled and swaged over special wires to produce exact holes for preheats and cutting oxygen bores. Tolerances must be controlled carefully to produce stable flames.



NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.

NATURAL GAS/PROPANE

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

CA98, CA730 30, 50 64
CA370, CA330 54 & 56 SERIES

GENERAL PURPOSE HAND CUTTING MACHINE CUTTING SCRAP CUTTING



229 [TWO PIECE]



TIP SERIES

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	TWO PIECE CUTTING		
			OXYGEN PSIG	FUEL GAS PSIG	SPEED I.P.M.
229-0	1/4"	62	25/30	3/5	26/29
229-1	1/2" - 3/4"	56	30/35	3/5	17/24
229-2	1" - 1 1/2"	54	35/45	3/7	13/18
229-3	2" - 4"	52	40/45	5/10	8/15
229-4	5"	49	45/55	6/12	7/9
229-5	6"	45	45/55	7/12	6/8
229-6	7"	41	45/55	8/14	5/6
229-7	10"	34	45/55	10/15	4/5
229-8	12"	30	45/55	10/15	3/4

TECH TIP

Two-piece tips consist of an outer shell [see FIG.1 below] and a splined insert [see FIG.2 below]. The splined insert is used to eliminate the need to drill numerous preheat holes required for cooler-and slower - burning gases. Different spline configurations allow different fuel gases to burn more efficiently.

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	

CA98, CA730 30, 50, 64
CA370, CA330 54 & 56 SERIES

FOR GENERAL HAND CUTTING MACHINE CUTTING



263 [TWO PIECE]



TIP SERIES

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	TWO PIECE CUTTING		
			OXYGEN PSIG	FUEL GAS PSIG	SPEED I.P.M.
263-00	1/8"	74	20/25	3/5	27/30
263-0	1/4"	60	25/30	3/5	26/29
263-1	1/2" - 3/4"	59	30/35	3/5	17/24
263-2	1" - 1 1/2"	56	30/45	3/7	13/18
263-3	2" - 4"	53	45/50	5/10	8/15
263-5	5 1/2"	45	45/55	7/12	6/8
263-7	10"	39	45/55	10/15	4/5
263-8	12"	30	45/55	10/15	3/4

FIG. 1



OUTER SHELL

FIG. 2



V-SPLINES

INSERT

3 SEAT DESIGN PROVIDES OPTIMUM SAFETY

GASES ARE MIXED BETWEEN THE SEATS

TECH TIP

For Natural Gas and Propane, V-splines make preheats more efficient. Small tips usually have small splines, and large tips use wide V-splines. These gases require a deeper recess (CUP) between the insert and the shell to better anchor the preheat flames of those slower burning gases.

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.



TIPS CUTTING

STYLE

LIQUID AIR® FUEL GAS/MAP/Pro™/PROPYLENE

USE WITH SERIES

CUTTING ATTACHMENT
HAND CUTTING TORCHES
MACHINE CUTTING TORCHES

APPLICATION

CA98, CA730
CA370, CA330

30, 50,
54 & 56

64
SERIES

GENERAL
PURPOSE
CUTTING

FAST EVEN
PREHEAT
PATTERN



AFS [TWO PIECE]



TIP SERIES

TWO PIECE

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS PSIG	SPEED I.P.M.	STANDARD SIZE
			PSIG	SCFH			
AFS-72D	1/8"	72	60/70	55/65	2/4	22/24	000
AFS-68D	1/4" - 3/8"	68	70/80	66/70	2/4	20/22	00
AFS-65D	1/2"	65	75/80	80/90	2/4	20/22	0
AFS-60D	5/8"	60	75/80	110/130	3/5	19/22	0
AFS-56D	1"	56	80/85	160	3/5	17/22	1
AFS-54D	1 1/2"	54	80/85	230	4/7	16/19	2
AFS-52D	2"	52	80/85	340	4/7	15/16	3
AFS-49D	3" - 4"	49	85/95	480	5/9	12/15	4
AFS-44D	5"	44	85/95	500	5/9	12/15	5
AFS-38D	6"	38	85/95	540	6/10	10/13	6
AFS-31D	12"	31	90/95	600	7/12	8/10	8

USE WITH SERIES

CUTTING ATTACHMENT
HAND CUTTING TORCHES
MACHINE CUTTING TORCHES

APPLICATION

N/A

N/A

64
SERIES

HIGH SPEED
MACHINE
CUTTING

SPECIAL
CUTTING
OXYGEN
ORIFICE



AFH [TWO PIECE]



TIP SERIES

TWO PIECE

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS PSIG	SPEED I.P.M.	STANDARD SIZE
			PSIG	SCFH			
AFH-68D	1/4" - 3/8"	68	70/80	66/70	2/4	20/22	00
AFH-65D	1/2"	65	75/80	80/90	2/4	20/22	0
AFH-60D	5/8"	60	75/80	110/130	3/5	19/22	0
AFH-56D	1"	56	80/85	160	3/5	17/22	1
AFH-54D	1 1/2"	54	80/85	230	4/7	16/19	2
AFH-52D	2"	52	80/85	340	4/7	15/16	3
AFH-49D	3" - 4"	49	85/95	480	5/9	12/15	4
AFH-44	5"	44	85/95	500	5/9	12/15	5

TECH TIP

Robotic oxy-fuel cutters sometimes use a high speed divergent nozzle. This uses an oxygen jet that opens slightly along its passage. This allows the compressed oxygen to expand as it leaves, forming a high-velocity jet that spreads less than a parallel-bore nozzle, allowing a cleaner cut. These are not used for cutting by hand since they need very accurate positioning above the work.

USE WITH SERIES

CUTTING ATTACHMENT
HAND CUTTING TORCHES
MACHINE CUTTING TORCHES

APPLICATION

CA98, CA730
CA370, CA330

30, 50,
54 & 56

64
SERIES

GENERAL
PURPOSE
HAND
CUTTING

8 PREHEATS



ASP [ONE PIECE]



TIP SERIES

ONE PIECE

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS PSIG	SPEED I.P.M.	STANDARD SIZE
			PSIG	SCFH			
ASP-72D	1/8"	72	60/70	55/65	2/4	22/24	000
ASP-68D	1/4" - 3/8"	68	70/80	66/70	2/4	20/22	00
ASP-65D	1/2"	65	75/80	80/90	2/4	20/22	0
ASP-60D	5/8"	60	75/80	110/130	3/5	19/22	0
ASP-56D	1"	56	80/85	160	3/5	17/22	1
ASP-54D	1 1/2"	54	80/85	230	4/7	16/19	2
ASP-52D	2"	52	80/85	340	4/7	15/16	3
ASP-49D	3" - 4"	49	85/95	480	5/9	12/15	4
ASP-44	4"	44	85/95	500	5/9	12/15	5
ASP-38	6"	38	85/95	540	6/10	10/13	6
ASP-31	12"	31	90/95	600	7/12	8/10	8

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.



TECH TIP

Acetylene cutting tips are usually manufactured with four or six preheat holes and produced to allow light, medium and heavy preheats for use with clean, dirty, or rusted plate.



They are solid copper, one piece.

Rivet-washing tips use a low-velocity cutting oxygen stream to blow rivets through a plate without damaging it. Tips also are available for gouging out welds, cutting sheet metal, and other specialized uses.

One-piece tips can also be used with propylene (MAP//Pro™). They have eight preheat holes to provide the extra heat required for these gases. However, two-piece tips generally provide the best results with MAP//Pro™ gas and propylene.

ACETYLENE

USE WITH SERIES

HAND MACHINE
CUTTING CUTTING CUTTING
ATTACHMENT TORCHES TORCHES

APPLICATION

OXWELD STYLE EQUIPMENT

GENERAL
PURPOSE
CUTTING



1502
[ONE PIECE]



TIP SERIES

OXWELD® ONE PIECE

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
1502-3	1/4"	68	20/25	35/45	5/7	6/8	17/25	.045
1502-4	1/2"	60	30/35	65/75	5/7	8/10	15/23	.065
1502-6	1 1/2"	53	40/45	150/170	5/7	16/20	11/16	.090
1502-8	4"	46	35/45	235/285	6/8	19/22	6/9	.105
1502-10	8"	39	55/65	545/625	6/10	30/35	3.5/5	.170
1502-12	12"	31	55/65	740/905	10/12	45/55	2.4/3	.210

One-piece tips have oxygen bores that come in two configurations: a straight bore using 40 to 60 PSI for hand cutting and a divergent bore that has a tapered or flared outlet hole for use in machine cutting. The divergent-bore tips use higher outlet pressure of 70 to 100 PSI and allow for 25 percent increase in cutting speed over straight-bore tips.

TECH TIP

USE WITH SERIES

HAND MACHINE
CUTTING CUTTING CUTTING
ATTACHMENT TORCHES TORCHES

APPLICATION

PUROX STYLE EQUIPMENT

GENERAL
PURPOSE
CUTTING



4202
[ONE PIECE]



TIP SERIES

PUROX® ONE PIECE

PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
4202-3	1/4"	68	20/25	38/45	5/10	8/10	28/32	.055
4202-4	1/2"	60	30/35	70/75	5/10	10/12	18/22	.065
4202-5	1 1/2"	55	45/56	168/175	5/10	16/20	11/13	.090
4202-7	4"	50	60/73	300/325	5/12	21/25	8/10	.110
4202-9	6"	43	67/73	410/460	7/12	25/28	6/8	.160
4202-11	10"	35	80/86	680/740	7/12	40/45	1/2	.190
4202-13	12"	30	75/85	800/860	7/12	48/45	1/2	.210

The six outer jets of a cutting tip are for oxygen and acetylene (Preheat Flames) and the central jet carries only oxygen. The preheat flames are not intended to melt the metal, but to bring it to its ignition temperature.

TECH TIP

NOTE: TO ORDER TIP ON DISPLAY CARD, ADD (-D) TO PART NUMBER.



TIPS WELDING/HEATING

STYLE

OXYACETYLENE/HYDROGEN/MAP/Pro™/PROPANE/NAT. GAS

APPLICATION

WELDING
HEATING
BRAZING
SOLDERING

98



COMPLETE ASSEMBLY PART#	ELBOW ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)
TYPE98-00	TYPE98E-00	UM98	3/8"-20(M,F)	1/64"	5	5	2
TYPE98-0	TYPE98E-0	UM98	3/8"-20(M,F)	1/32"	5	5	3
TYPE98-1	TYPE98E-1	UM98	3/8"-20(M,F)	1/16"	5	5	5
TYPE98-2	TYPE98E-2	UM98	3/8"-20(M,F)	3/32"	5	5	8
TYPE98-3	TYPE98E-3	UM98	3/8"-20(M,F)	1/8"	5	5	12
TYPE98-4	TYPE98E-4	UM98	3/8"-20(M,F)	3/16"	5	5	15
TYPE98-5	TYPE98E-5	UM98	3/8"-20(M,F)	1/4"	5	5	24
TYPE98-6	TYPE98E-6	UM98	3/8"-20(M,F)	3/8"	6	6	35
TYPE98-7	TYPE98E-7	UM98	3/8"-20(M,F)	1/2"	7	7	43
TYPE98-8	TYPE98E-8	UM98	3/8"-20(M,F)	3/4"	7	7	55
TYPE98-9	TYPE98E-9	UM98	3/8"-20(M,F)	1"	7	7	63
TYPE98-10	TYPE98E-10	UM98	3/8"-20(M,F)	1 1/2"	9	9	76

98L9
98L11

TIP SERIES	COMPLETE ASSEMBLY PART#	ELBOW ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE #
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APPLICATION

WELDING
HEATING
BRAZING
SOLDERING

370



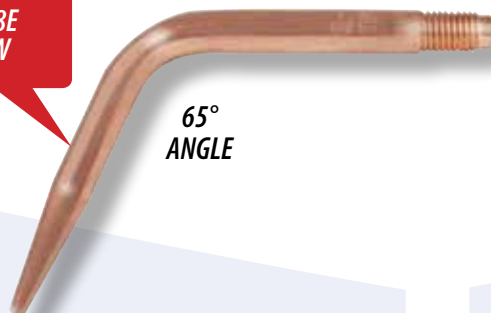
TYPE370-00	TYPE98E-00	UM370	3/8"-20(M,F)	1/64"	5	5	2	
TYPE370-0	TYPE98E-0	UM370	3/8"-20(M,F)	1/32"	5	5	3	
TYPE370-1	TYPE98E-1	UM370	3/8"-20(M,F)	1/16"	5	5	5	
TYPE370-2	TYPE98E-2	UM370	3/8"-20(M,F)	3/32"	5	5	8	
TYPE370-3	TYPE98E-3	UM370	3/8"-20(M,F)	1/8"	5	5	12	
TYPE370-4	TYPE98E-4	UM370	3/8"-20(M,F)	3/16"	5	5	15	
TYPE370-5	TYPE98E-5	UM370	3/8"-20(M,F)	1/4"	5	5	24	
TYPE370-6	TYPE98E-6	UM370	3/8"-20(M,F)	3/8"	6	6	35	
TYPE370-7	TYPE98E-7	UM370	3/8"-20(M,F)	1/2"	7	7	43	
TYPE370-8	TYPE98E-8	UM370	3/8"-20(M,F)	3/4"	7	7	55	
TYPE370-9	TYPE98E-9	UM370	3/8"-20(M,F)	1"	7	7	63	
TYPE370-10	TYPE98E-10	UM370	3/8"-20(M,F)	1 1/2"	9	9	76	

WH370

ELBOW/MIXER COMPONENTS

TYPE98E
ELBOW

65°
ANGLE



UM98
MIXER



USE WITH
98L9, 98L11
HANDLES

UM370
MIXER



USE WITH
WH370
HANDLE

NOTE: These tips are to be only hand tightened to the welding torch handles. Over tightening will damage the mixer nut "O-Rings".

▽ Carefully read and understand operating instructions before using welding/heating tips.

OXYACETYLENE/HYDROGEN/MAP/Pro™/PROPANE/NAT. GAS

APPLICATION
WELDING
HEATING
BRAZING
SOLDERING

A.L.C.
STYLE
730



TIP SERIES	COMPLETE ASSEMBLY PART#	ELBOW ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE #
A.L.C. STYLE 730	TYPE730-00	TYPE98E-00	UM730	3/8"-20(M,F)	1/64"	5	5	2	WH730
	TYPE730-0	TYPE98E-0	UM730	3/8"-20(M,F)	1/32"	5	5	3	
	TYPE730-1	TYPE98E-1	UM730	3/8"-20(M,F)	1/16"	5	5	5	
	TYPE730-2	TYPE98E-2	UM730	3/8"-20(M,F)	3/32"	5	5	8	
	TYPE730-3	TYPE98E-3	UM730	3/8"-20(M,F)	1/8"	5	5	12	
	TYPE730-4	TYPE98E-4	UM730	3/8"-20(M,F)	3/16"	5	5	15	
	TYPE730-5	TYPE98E-5	UM730	3/8"-20(M,F)	1/4"	5	5	24	
	TYPE730-6	TYPE98E-6	UM730	3/8"-20(M,F)	3/8"	6	6	35	
	TYPE730-7	TYPE98E-7	UM730	3/8"-20(M,F)	1/2"	7	7	43	
	TYPE730-8	TYPE98E-8	UM730	3/8"-20(M,F)	3/4"	7	7	55	
	TYPE730-9	TYPE98E-9	UM730	3/8"-20(M,F)	1"	7	7	63	
	TYPE730-10	TYPE98E-10	UM730	3/8"-20(M,F)	1 1/2"	9	9	76	

APPLICATION
WELDING
HEATING
BRAZING
SOLDERING

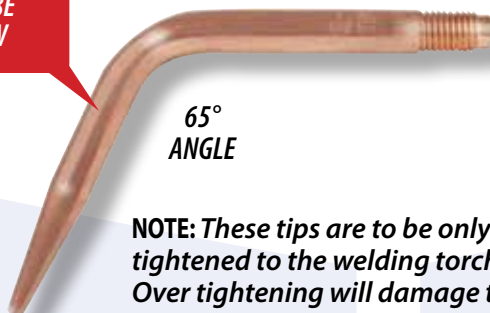
A.L.C.
STYLE
330



TIP SERIES	COMPLETE ASSEMBLY PART#	ELBOW ONLY	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	WELD METAL THICKNESS	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE #
A.L.C. STYLE 330 	TYPE330-00	TYPE98E-00	UM330	3/8"-20(M,F)	1/64"	5	5	2	WH330
	TYPE330-0	TYPE98E-0	UM330	3/8"-20(M,F)	1/32"	5	5	3	
	TYPE330-1	TYPE98E-1	UM330	3/8"-20(M,F)	1/16"	5	5	5	
	TYPE330-2	TYPE98E-2	UM330	3/8"-20(M,F)	3/32"	5	5	8	
	TYPE330-3	TYPE98E-3	UM330	3/8"-20(M,F)	1/8"	5	5	12	
	TYPE330-4	TYPE98E-4	UM330	3/8"-20(M,F)	3/16"	5	5	15	
	TYPE330-5	TYPE98E-5	UM330	3/8"-20(M,F)	1/4"	5	5	24	
	TYPE330-6	TYPE98E-6	UM330	3/8"-20(M,F)	3/8"	6	6	35	
	TYPE330-7	TYPE98E-7	UM330	3/8"-20(M,F)	1/2"	7	7	43	
	TYPE330-8	TYPE98E-8	UM330	3/8"-20(M,F)	3/4"	7	7	55	
	TYPE330-9	TYPE98E-9	UM330	3/8"-20(M,F)	1"	7	7	63	
	TYPE330-10	TYPE98E-10	UM330	3/8"-20(M, F)	1 1/2"	9	9	76	

A.L.C. ELBOW/MIXER COMPONENTS

TYPE98E
ELBOW



65°
ANGLE

NOTE: These tips are to be only hand tightened to the welding torch handles. Over tightening will damage the mixer nut "O-Rings".



UM730
MIXER

USE WITH
WH730
HANDLE



UM330
MIXER

USE WITH
WH330
HANDLE



TIPS BRAZING/HEATING

STYLE

OXYACETYLENE

TIP SERIES

COMPLETE
ASSEMBLY
PART#

TIP END
ONLY

MIXER
ONLY

ELBOW
TO MIXER
THREAD SPEC

OXYGEN
(PSIG)

ACETYLENE
FUEL GAS
(PSIG)

ACETYLENE
FUEL GAS
(SCFH)

USE WITH
WELDING
HANDLE#

37

APPLICATION

PRE-HEATING
STRAIGHTENING

INDUSTRY TERM: ROSEBUD

HEATING TIPS: COMPLETE with Tip End

TYPE37-5	TYPE37TE-5	N/A	3/8"-20(M,F)	15	10	25
TYPE37-7	TYPE37TE-7	N/A	3/8"-20(M,F)	25	10	45
TYPE37-8	TYPE37TE-8	N/A	3/8"-20(M,F)	25	10	45
TYPE37-10	TYPE37TE-10	N/A	3/8"-20(M,F)	40	15	100

WH370

Tip Ends for Type37



37 Tip End

TIP SERIES

COMPLETE
ASSEMBLY
PART#

TIP END
ONLY

MIXER
ONLY

ELBOW
TO MIXER
THREAD SPEC

OXYGEN
(PSIG)

ACETYLENE
FUEL GAS
(PSIG)

ACETYLENE
FUEL GAS
(SCFH)

USE WITH
WELDING
HANDLE#

A.L.C.
STYLE
73

APPLICATION

PRE-HEATING
STRAIGHTENING

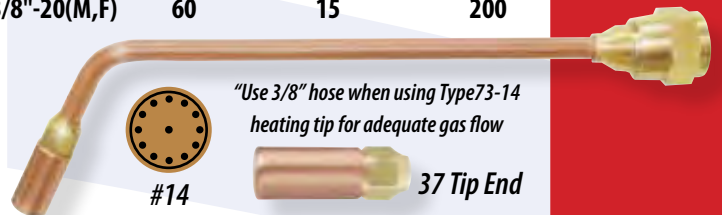
INDUSTRY
TERM:
ROSEBUD

HEATING TIPS: COMPLETE with Tip End

TYPE73-5	TYPE73TE-5	N/A	3/8"-20(M,F)	15	10	25
TYPE73-7	TYPE73TE-7	N/A	3/8"-20(M,F)	25	10	45
TYPE73-8	TYPE73TE-8	N/A	3/8"-20(M,F)	25	10	45
TYPE73-8	TYPE73TE-8	N/A	3/8"-20(M,F)	25	10	45
TYPE73-10	TYPE73TE-10	N/A	3/8"-20(M,F)	40	15	100
TYPE73-14	TYPE11TE-15	N/A	3/8"-20(M,F)	60	15	200

WH730

Tip Ends for Type73



"Use 3/8" hose when using Type73-14 heating tip for adequate gas flow"

#14

37 Tip End

TIP SERIES

COMPLETE
ASSEMBLY
PART#

TIP END
ONLY

MIXER
ONLY

ELBOW
TO MIXER
THREAD SPEC

OXYGEN
(PSIG)

ACETYLENE
FUEL GAS
(PSIG)

ACETYLENE
FUEL GAS
(SCFH)

USE WITH
WELDING
HANDLE#

A.L.C.
STYLE
33

APPLICATION

PRE-HEATING
STRAIGHTENING

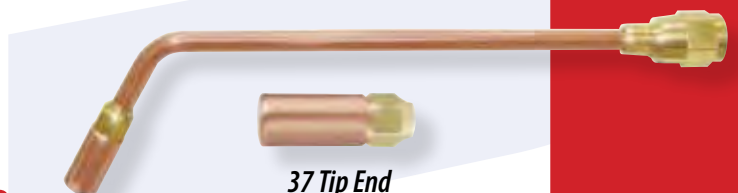
INDUSTRY TERM: ROSEBUD

HEATING TIPS: COMPLETE with Tip End

TYPE33-5	TYPE37TE-5	N/A	3/8"-20(M,F)	15	10	25
TYPE33-7	TYPE37TE-7	N/A	3/8"-20(M,F)	25	10	45
TYPE33-8	TYPE37TE-8	N/A	3/8"-20(M,F)	25	10	45
TYPE33-10	TYPE37TE-10	N/A	3/8"-20(M,F)	40	15	100

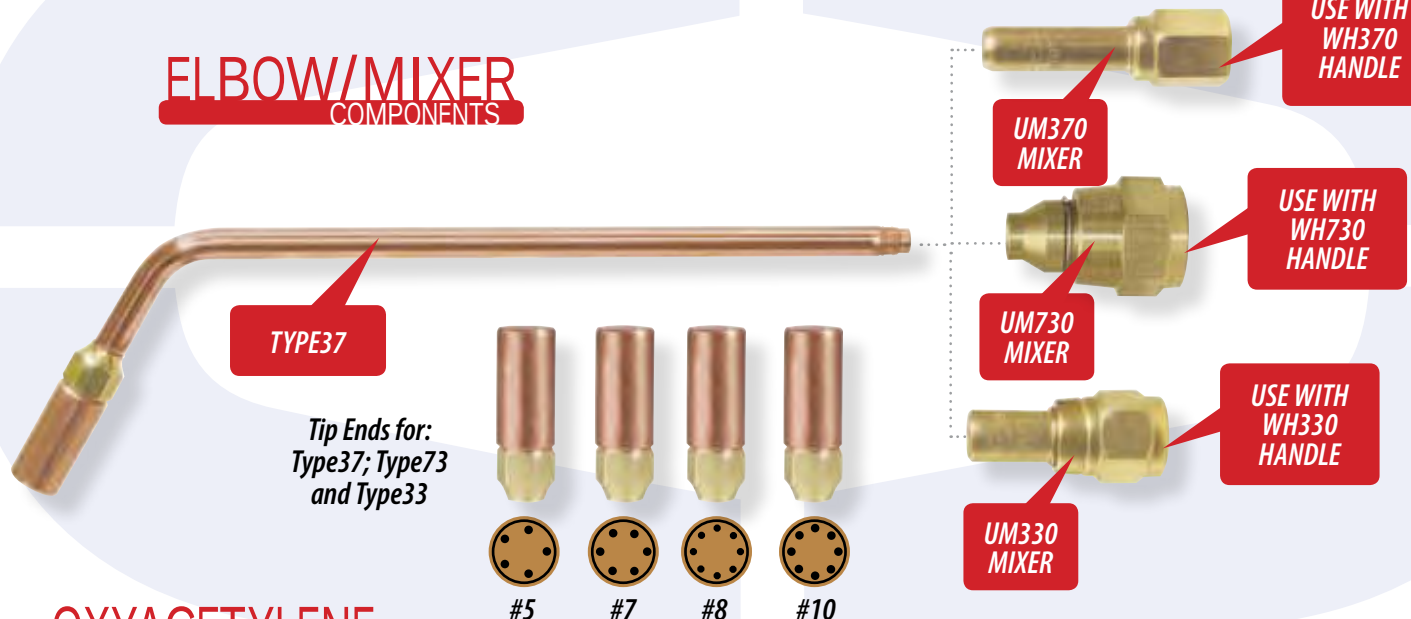
WH330

Tip Ends for Type33



37 Tip End

ELBOW/MIXER COMPONENTS



OXYACETYLENE

TIP SERIES	COMPLETE ASSEMBLY PART#	MIXER ONLY	ELBOW TO MIXER THREAD SPEC	OXYGEN (PSIG)	ACETYLENE FUEL GAS (PSIG)	ACETYLENE FUEL GAS (SCFH)	USE WITH WELDING HANDLE#
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APPLICATION

911

PRE-HEATING
STRAIGHTENING

HEATING TIPS: COMPLETE with Tip End

TYPE911-8	UM911D	7/16"-27(M)	25	10	45
TYPE911-10	UM911D-2	1/2"-27(M)	40	15	100
TYPE911-12	UM911D-2	1/2"-27(M)	60	15	150
TYPE911-15	UM911D-2	1/2"-27(M)	60	15	225

98L9
98L11

INDUSTRY TERM: ROSEBUD



#8

Type11 Tip Ends



#10



#12



#15

ELBOW/MIXER COMPONENTS





TIPS BRAZING/HEATING



OXY/FUEL GAS ONLY (Do not use with Acetylene)

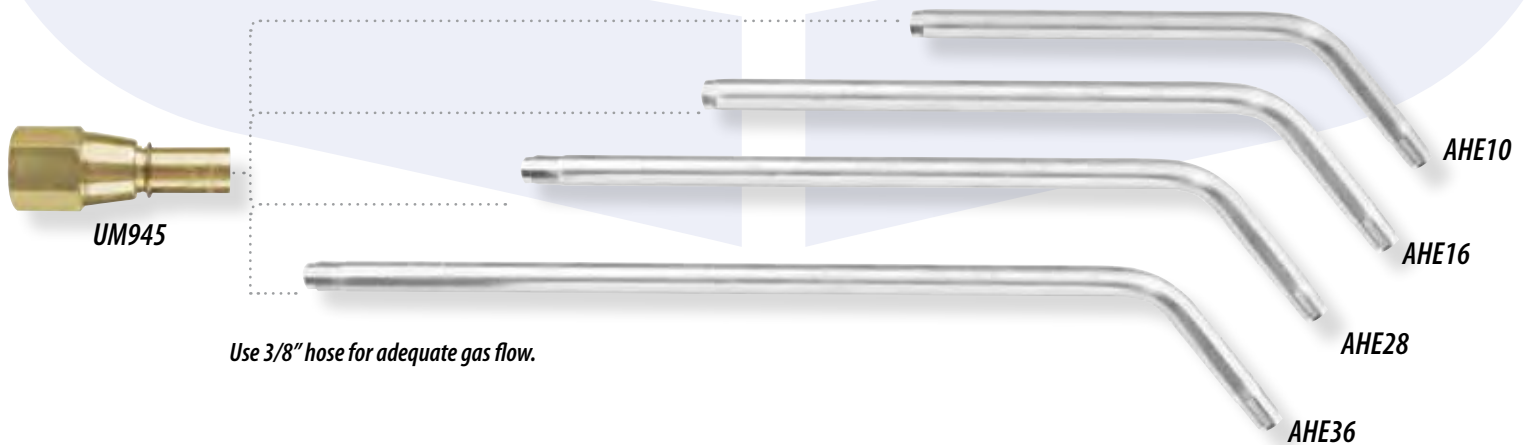
ELBOW TYPE	ELBOW ONLY PART #	LENGTH	ELBOW TIP END THREAD SPEC	MIXER ONLY PART #	MIXER END THREAD SPEC	USE WITH WELDING HANDLE #
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AHE

HEATING COMPONENTS

AHE10	10"	1/2"-25(M)	UM945	1/2"-27(F)
AHE16	16"	1/2"-25(M)	UM945	1/2"-27(F)
AHE28	28"	1/2"-25(M)	UM945	1/2"-27(F)
AHE36	36"	1/2"-25(M)	UM945	1/2"-27(F)

98L9
98L11



Use 3/8" hose for adequate gas flow.

TIP END SERIES	TIP END PART #	TIP END THREAD SPEC	OXYGEN (PSIG)	DO NOT USE WITH ACETYLENE FLOW (SCFH)	PROPANE (PSIG)	FLOW (SCFH)	HEAT OUTPUT (BTU/HR)
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2290

HEATING TIPS (Fuel Gas only)

2290-1H	1/2"-25(F)	10-25	160-320	4-12	40-80
2290-2H	1/2"-25(F)	15-45	220-520	7-22	55-130
2290-3H	1/2"-25(F)	25-70	340-920	8-25	85-230
2290-4H*	1/2"-25(F)	50-110	640-1300	10-30	160-325
2290-5H*	1/2"-25(F)	60-135	720-1600	14-40	180-400

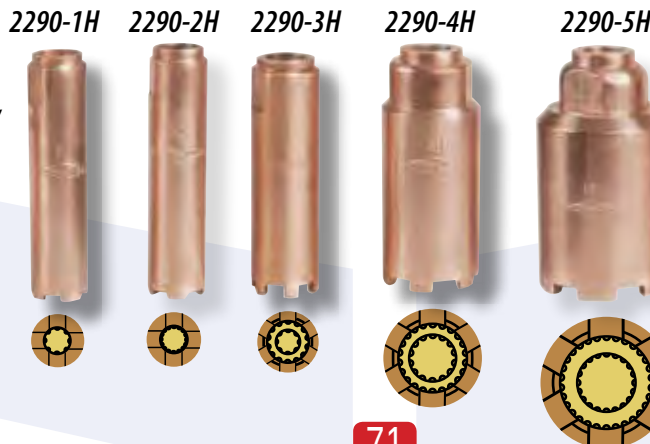
100,000-200,000
140,000-330,000
215,000-580,000
400,000-820,000
450,000-1,000,000

NOTE:

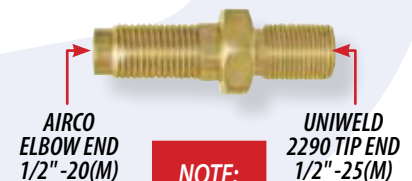
On continuous duty withdrawal, manifolding of cylinders may be required.

NOTE:

*Use 3/8" hose for maximum flow and BTU output.



PART# 745A01 Adaptor
for using Uniweld series 2290 heating tips with an Airco elbow.



NOTE:

To calculate heat output for propylene, use 2400 BTU/cu. ft. X Flow CFH

SINGLE STAGE REGULATOR

FEATURES

UniWeld single stage regulators are widely used for general purpose gas control applications where nominal delivery pressure changes due to decreasing cylinder pressure does not significantly affect operations. Single stage regulators have greater flow capacity than two stage models.

LOCK-IN DELRIN INSERT BUSHING, FOR SMOOTH ADJUSTMENT AND TROUBLE FREE SERVICE

SINGLE STAGE OXYGEN REGULATOR MODEL RV8010

FORGED BRASS BONNET AND BODY

FLEXIBLE STAINLESS STEEL DIAPHRAGM WITH O-RING SEAL FOR LONG TERM RELIABILITY

PISTON-TYPE RESEATING PRESSURE RELIEF DEVICE FOR LOW PRESSURE GAUGE PROTECTION

REMOVABLE BACK PLUG FOR EASY SEAT REPAIR

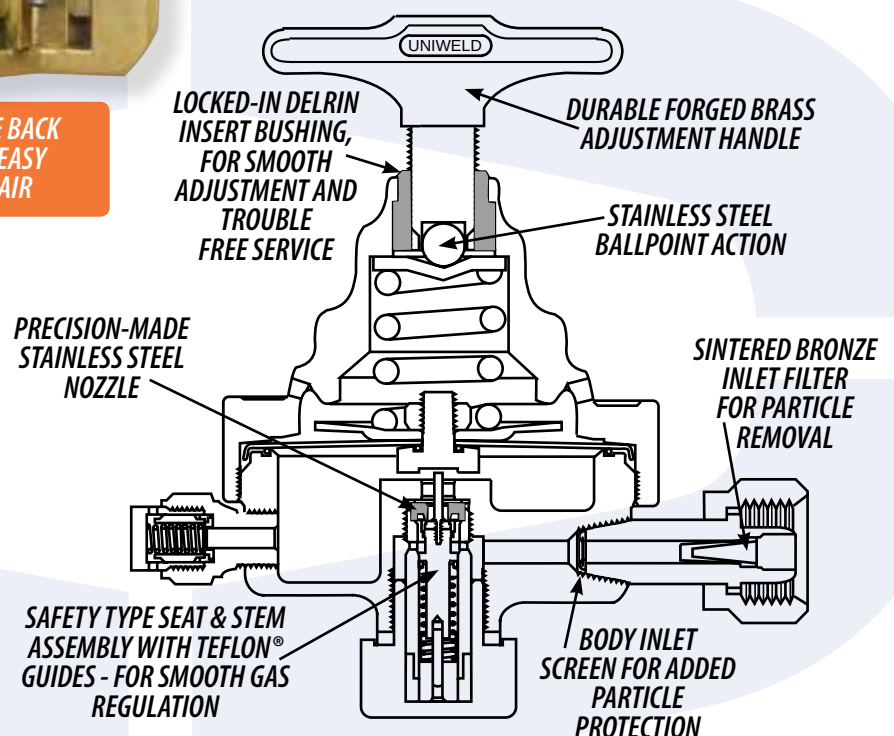
NOTE:

UniWeld regulator flow charts are calculated by using free air at 70°F with the regulator outlet full open with no restrictions.

For maximum flow when converting to other gases, multiply by the correct conversion factor. (See chart on page 73).

EXAMPLE:

Maximum flow free air (RV8010 Oxygen regulator)	8000SCFH
Correction factor Oxygen	X .95
Actual flow Oxygen	7600SCFH





REGULATORS

TWO
STAGE

TWO STAGE REGULATOR FEATURES

TWO STAGE OXYGEN REGULATOR MODEL RVT8010

Uniweld two stage regulators are used where steady delivery pressure is required over a range of decreasing cylinder inlet pressures. Delivery pressures will remain constant until inlet pressure is nearly depleted.

FORGED
BRASS
BONNET

FORGED
BRASS
BODY

LOCKED-IN DELRIN
INSERT BUSHING
FOR SMOOTH
ADJUSTMENT

PRESET FIRST STAGE PROVIDES
REGULATED PRESSURE TO THE ADJUSTABLE
SECOND STAGE THAT PROVIDES
STEADY DELIVERY PRESSURES FOR
SERVICE APPLICATIONS REQUIRING
THIS TYPE OF PERFORMANCE

FLEXIBLE STAINLESS STEEL
DIAPHRAGMS WITH
2ND STAGE O-RING AND
1ST STAGE TEFLON SEALS FOR
LONG TERM RELIABILITY

SAFETY TYPE SEAT & STEM
ASSEMBLY WITH TEFLON®
GUIDES - FOR SMOOTH GAS
REGULATION

PISTON-TYPE RESEATING
PRESSURE RELIEF DEVICE
FOR LOW PRESSURE GAUGE
PROTECTION (NOT SHOWN)

STAINLESS STEEL
BALLPOINT ACTION

PRECISION-MADE
STAINLESS STEEL
NOZZLE

DURABLE FORGED BRASS
ADJUSTMENT HANDLE

SINTERED BRONZE
INLET FILTER
FOR PARTICLE
REMOVAL

BODY INLET
SCREEN FOR ADDED
PARTICLE
PROTECTION

GAS CONVERSION CHART

ACETYLENE	1.05
ARGON	.85
CARBON DIOXIDE	.81
COMPRESSED AIR	1.00
HELIUM	2.69
HYDROGEN	3.79
MAP/Pro™	.82
METHANE1	1.34
NATURAL GAS	1.28
NITROGEN	1.02
OXYGEN	.95
PROPANE	.80
PROPYLENE	

RV80 SERIES

HEAVY DUTY

- Forged brass body and bonnet
- Easy-to-read single scale 2½" gauges
- 3¼" stainless steel diaphragm
- Heavy duty mechanical stem type seat and nozzle assembly with removable back plug for ease of seat service
- Delrin bushing for smooth flow adjustment
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only



UL LISTED
592H

MAXIMUM INLET
3000 PSIG



RV8010

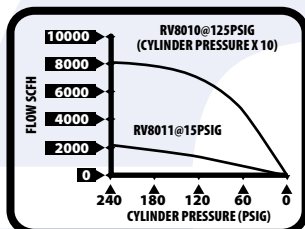


RV8011

RV80 SERIES DIMENSIONS

Depth:	6½"
Width:	7"
Height:	6½"
Weight:	6 lbs.

Single Stage Regulators have pressure rise of approx. 1/2 psi (.5) per 100 psi drop in cylinder pressure.



Maximum Flow = 8000 SCFH
Free Air @ 70° F
No Flow Restrictions

NOTE: The standard cubic foot per hour flows are obtained with the regulator outlet full open with no restrictions; using a preset outlet pressure and with decreasing cylinder pressure.

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour

PART# UPC#	RV8010 10010	RV8010-3 10011	RV8011 10012	RV8011-1 10013	RV8011-CND 10014
CGA INLET	OXYGEN 540	OXYGEN 540	ACETYLENE 510	ACETYLENE 300	ACETYLENE 410
OUTLET CONNECTION	"B" (RH) 9/16"-18(M)	"B" (RH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)
DEL. PSIG	5-125	10-250	2-15	2-15	2-15
REPLACEMENT 2½" GAUGES	G24; 200 PSI G27; 4000 PSI	G21; 400 PSI G27; 4000 PSI	G22; 30 PSI (RL) G21; 400 PSI	G22; 30 PSI (RL) G21; 400 PSI	G22; 30 PSI (RL) G21; 400 PSI
PART# UPC#	RV8012 10015	RV8013 10016	RV8014 10017	RV8015 10018	RV8015A-1 10019
CGA INLET	LPG & ALL FUEL GAS 510	CARBON DIOXIDE 320	ARGON 580	NITROGEN 580	NITROGEN 580
OUTLET CONNECTION	"B" (LH) 9/16"-18(M)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	1/4" FLARE (M)
DEL. PSIG	2-40	5-125	5-125	5-125	10-300
REPLACEMENT 2½" GAUGES	G25; 60 PSI G21; 400 PSI	G24; 200 PSI G23; 3000 PSI	G24; 200 PSI G27; 4000 PSI	G24; 200 PSI G27; 4000 PSI	G21; 400 PSI G27; 4000 PSI
PART# UPC#	RV8016 10020	RV8017 10021	RV8018 10076	RV8018A-1 10077	RV8018-2 10078
CGA INLET	HELIUM 580	HYDROGEN 350	AIR 346	AIR 346	AIR 346
OUTLET CONNECTION	5/8"-18(RH) (F)	"B" (LH) 9/16"-18(M)	9/16"-18(RH) (M)	1/4" FLARE (M)	5/8"-18 (LH) (F)
DEL. PSIG	5-125	5-125	5-125	10-300	5-125
REPLACEMENT 2½" GAUGES	G24; 200 PSI G27; 4000 PSI	G24; 200 PSI G27; 4000 PSI	G24; 200 PSI G27; 4000 PSI	G21; 400 PSI G27; 4000 PSI	G24; 200 PSI G27; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)



RVT80 SERIES REGULATORS

TWO
STAGE

RVT80 SERIES HEAVY DUTY

- Forged brass body and bonnet
- Easy-to-read single scale 2½" gauges
- 2⅛" stainless steel diaphragm 1st stage
- 3¼" stainless steel diaphragm 2nd stage
- Heavy duty mechanical stem type seat and nozzle assembly
- Delrin bushing for smooth flow adjustment
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only



MADE IN U.S.A.



**MAXIMUM INLET
3000 PSIG**

**TWO
STAGE**

RVT8010

PART# UPC#	RVT8010 10100	RVT8010-3 10101	RVT8011 10102	RVT8011-1 10103	RVT8011-CND 10104
CGA INLET	OXYGEN 540	OXYGEN 540	ACETYLENE 510	ACETYLENE 300	ACETYLENE 410
OUTLET CONNECTION	"B" (RH) 9/16"-18(M)	"B" (RH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)
DEL. PSIG	5-125	10-250	2-15	2-15	2-15
REPLACEMENT 2½" GAUGES	G24; 200 PSI G27; 4000 PSI	G21; 400 PSI G27; 4000 PSI	G22; 30 PSI (RL) G21; 400 PSI	G22; 30 PSI (RL) G21; 400 PSI	G22; 30 PSI (RL) G21; 400 PSI

PART# UPC#	RVT8012 10105	RVT8013 10106	RVT8014 10107	RVT8015 10108	RVT8015A-1 10109
CGA INLET	LPG & ALL FUEL GAS 510	CARBON DIOXIDE 320	ARGON 580	NITROGEN 580	NITROGEN 580
OUTLET CONNECTION	"B" (LH) 9/16"-18(M)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	1/4" FLARE (M)
DEL. PSIG	2-40	5-125	5-125	5-125	10-300
REPLACEMENT 2½" GAUGES	G25; 60 PSI G21; 400 PSI	G24; 200 PSI G23; 3000 PSI	G24; 200 PSI G27; 4000 PSI	G24; 200 PSI G27; 4000 PSI	G21; 400 PSI G27; 4000 PSI

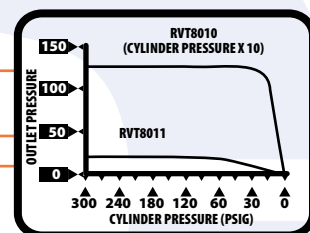
PART# UPC#	RVT8016 10110	RVT8017 10111	RVT8018 10126	RVT8018A-1 10127	RVT8018-2 10128
CGA INLET	HELIUM 580	HYDROGEN 350	AIR 346	AIR 346	AIR 346
OUTLET CONNECTION	5/8"-18(RH) (F)	"B" (LH) 9/16"-18(M)	9/16"-18(RH) (M)	1/4" FLARE (M)	5/8"-18 (LH) (F)
DEL. PSIG	5-125	5-125	5-125	10-300	5-125
REPLACEMENT 2½" GAUGES	G24; 200 PSI G27; 4000 PSI	G24; 200 PSI G27; 4000 PSI	G24; 200 PSI G27; 4000 PSI	G21; 400 PSI G27; 4000 PSI	G24; 200 PSI G27; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

RVT80 SERIES DIMENSIONS

Depth:	6"
Width:	8½"
Height:	8½"
Weight:	7 lbs.

*Two Stage
Regulators have little
pressure rise with
cylinder pressure
decrease.*



**Maximum Flow = 3000 SCFH
Free Air @ 70° F
No Flow Restrictions**

**NOTE: The standard cubic foot
per hour flows are obtained
with the regulator outlet
full open with no restrictions;
using a preset outlet pressure
and with decreasing
cylinder pressure.**

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour

SINGLE
STAGE

REGULATORS RUH83 SERIES



MADE IN U.S.A.

RUH8310

RUH83 SERIES
MEDIUM/HEAVY DUTY

- Machined brass body
- Polished chrome bonnet
- Easy-to-read single scale 2½" gauges
- 2" tri-layered reinforced neoprene diaphragm
- Heavy duty mechanical stem type seat and nozzle assembly
- Delrin bushing for smooth flow adjustment
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only

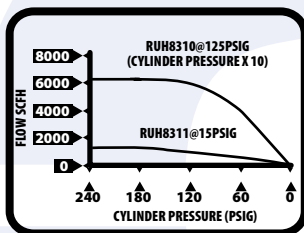


RUH8311


**MAXIMUM INLET
3000 PSIG**
RUH83 SERIES
DIMENSIONS

Depth:	5½"
Width:	7¼"
Height:	6"
Weight:	3 lbs.

Single Stage Regulators
have pressure rise of
approx. 1/2 psi (.5) per
100 psi drop in
cylinder pressure.


Maximum Flow = 6300 SCFH
Free Air @ 70° F
No Flow Restrictions

NOTE: The standard cubic foot
per hour flows are obtained
with the regulator outlet
full open with no restrictions;
using a preset outlet pressure
and with decreasing
cylinder pressure.

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour

PART# UPC#	RUH8310 11700	RUH8311 11701	RUH8311-1 11702	RUH8311-2 11703	RUH8311-CND 11705
CGA INLET	OXYGEN 540	ACETYLENE 510	ACETYLENE 300	ACETYLENE 520	ACETYLENE 410
OUTLET CONNECTION	"B" (RH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)
DEL. PSIG	5-125	2-15	2-15	2-15	2-15
REPLACEMENT 2½" GAUGES	G24S; 200 PSI G27S; 4000 PSI	G22S; 30 PSI (RL) G21S; 400 PSI	G22S; 30 PSI (RL) G21S; 400 PSI	G22S; 30 PSI (RL) G21S; 400 PSI	G22S; 30 PSI (RL) G21S; 400 PSI
PART# UPC#	RUH8312 11706	RUH8313 11707	RUH8314 11708	RUH8315 11709	RUH8315A-1 11710
CGA INLET	LPG & ALL FUEL GAS 510	CARBON DIOXIDE 320	ARGON 580	NITROGEN 580	NITROGEN 580
OUTLET CONNECTION	"B" (LH) 9/16"-18(M)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	1/4" FLARE (M)
DEL. PSIG	2-40	5-125	5-125	5-125	5-125
REPLACEMENT 2½" GAUGES	G25S; 60 PSI G21S; 400 PSI	G24S; 200 PSI G23S; 3000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI
PART# UPC#	RUH8316 11711	RUH8317 11712	RUH8318 11713	RUH8318A-1 11714	RUH8318-2 11715
CGA INLET	HELIUM 580	HYDROGEN 350	AIR 346	AIR 346	AIR 346
OUTLET CONNECTION	5/8"-18(RH) (F)	"B" (LH) 9/16"-18(M)	9/16"-18(RH) (M)	1/4" FLARE (M)	5/8"-18 (LH) (F)
DEL. PSIG	5-125	5-125	5-125	5-125	5-125
REPLACEMENT 2½" GAUGES	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)



SERIES RHT83 REGULATORS

TWO
STAGE

RHT83 SERIES MEDIUM/HEAVY DUTY



MADE IN U.S.A.

- Machined brass body
- Polished chrome bonnet
- Easy-to-read single scale 2½" gauges
- 1½" tri-layered reinforced neoprene diaphragm 1st stage
- 2" tri-layered reinforced neoprene diaphragm 2nd stage
- Heavy duty mechanical stem type seat & nozzle assembly
- Delrin bushing for smooth flow adjustment
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only



**LISTED
592H**

**MAXIMUM INLET
3000 PSIG**

**TWO
STAGE**



RHT8310

PART# UPC#	RHT8310 11800	RHT8311 11801	RHT8311-1 11802	RHT8311-CND 11803
CGA INLET	OXYGEN 540	ACETYLENE 510	ACETYLENE 300	ACETYLENE 410
OUTLET CONNECTION	"B" (RH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)
DEL. PSIG	5-125	2-15	2-15	2-15
REPLACEMENT 2½" GAUGES	G24S; 200 PSI G27S; 4000 PSI	G22S; 30 PSI (RL) G21S; 400 PSI	G22S; 30 PSI (RL) G21S; 400 PSI	G22S; 30 PSI (RL) G21S; 400 PSI

PART# UPC#	RHT8312 11804	RHT8313 11805	RHT8314 11806	RHT8315 11807	RHT8315A-1 11808
CGA INLET	LPG & ALL FUEL GAS 510	CARBON DIOXIDE 320	ARGON 580	NITROGEN 580	NITROGEN 580
OUTLET CONNECTION	"B" (LH) 9/16"-18(M)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	1/4" FLARE (M)
DEL. PSIG	2-40	5-125	5-125	5-125	5-125
REPLACEMENT 2½" GAUGES	G25S; 60 PSI G21S; 400 PSI	G24S; 200 PSI G23S; 3000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI

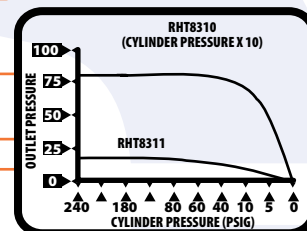
PART# UPC#	RHT8316 11809	RHT8317 11810	RHT8318 11811	RHT8318A-1 11812	RHT8318-2 11813
CGA INLET	HELIUM 580	HYDROGEN 350	AIR 346	AIR 346	AIR 346
OUTLET CONNECTION	5/8"-18(RH) (F)	"B" (LH) 9/16"-18(M)	9/16"-18(RH) (M)	1/4" FLARE (M)	5/8"-18(LH) (F)
DEL. PSIG	5-125	5-125	5-125	5-125	5-125
REPLACEMENT 2½" GAUGES	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI	G24S; 200 PSI G27S; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

RHT83 SERIES DIMENSIONS

Depth:	8¼"
Width:	7¼"
Height:	6"
Weight:	4 lbs.

*Two Stage
Regulators have little
pressure rise with
cylinder pressure
decrease.*



**Maximum Flow = 1500 SCFH
Free Air @ 70° F
No Flow Restrictions**

**NOTE: The standard cubic foot
per hour flows are obtained
with the regulator outlet
full open with no restrictions;
using a preset outlet pressure
and with decreasing
cylinder pressure.**

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour

SINGLE
STAGE

REGULATORS RUH82 SERIES



RUH8210

RUH82 SERIES
MEDIUM/HEAVY DUTY

MADE IN U.S.A.

- Machined brass body
- Polished chrome bonnet
- Easy-to-read single scale 2" gauges
- 2" tri-layered reinforced neoprene diaphragm
- Heavy duty mechanical stem type seat and nozzle assembly
- Delrin bushing for smooth flow adjustment
- Porous metal inlet filter (except CO₂ models)
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only

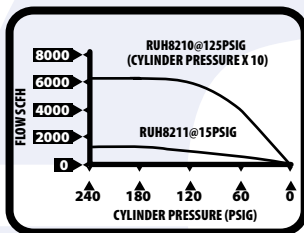


RUH8211


MAXIMUM INLET
3000 PSIG
RUH82 SERIES
DIMENSIONS

Depth:	5½"
Width:	7"
Height:	5½"
Weight:	3 lbs.

Single Stage Regulators
have pressure rise of
approx. 1/2 psi (.5) per
100 psi drop in
cylinder pressure.



Maximum Flow = 6300 SCFH
Free Air @ 70° F
No Flow Restrictions

NOTE: The standard cubic foot
per hour flows are obtained
with the regulator outlet
full open with no restrictions;
using a preset outlet pressure
and with decreasing
cylinder pressure.

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour

PART# UPC#	RUH8210 11000	RUH8211 11001	RUH8211-1 11002	RUH8211-2 11003	RUH8211-CND 11005
CGA INLET	OXYGEN 540	ACETYLENE 510	ACETYLENE 300	ACETYLENE 520	ACETYLENE 410
OUTLET CONNECTION	"B" (RH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)
DEL. PSIG	5-125	2-15	2-15	2-15	2-15
REPLACEMENT 2" GAUGES	G4S; 200 PSI G7S; 4000 PSI	G2S; 30 PSI (RL) G1S; 400 PSI	G2S; 30 PSI (RL) G1S; 400 PSI	G2S; 30 PSI (RL) G1S; 400 PSI	G2S; 30 PSI (RL) G1S; 400 PSI
PART# UPC#	RUH8212 11006	RUH8213 11007	RUH8214 11008	RUH8215 11009	RUH8215A-1 11010
CGA INLET	LPG & ALL FUEL GAS 510	CARBON DIOXIDE 320	ARGON 580	NITROGEN 580	NITROGEN 580
OUTLET CONNECTION	"B" (LH) 9/16"-18(M)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	1/4" FLARE (M)
DEL. PSIG	2-40	5-125	5-125	5-125	5-125
REPLACEMENT 2" GAUGES	G5S; 60 PSI G1S; 400 PSI	G4S; 200 PSI G3S; 3000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI
PART# UPC#	RUH8216 11011	RUH8217 11012	RUH8218 11024	RUH8218A-1 11025	RUH8218-2 11028
CGA INLET	HELIUM 580	HYDROGEN 350	AIR 346	AIR 346	AIR 346
OUTLET CONNECTION	5/8"-18(RH) (F)	"B" (LH) 9/16"-18(M)	9/16"-18(RH) (M)	1/4" FLARE(M)	5/8"-18(LH) (F)
DEL. PSIG	5-125	5-125	5-125	5-125	5-125
REPLACEMENT 2" GAUGES	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)



SERIES RHT80 REGULATORS

TWO
STAGE

RHT80 SERIES MEDIUM/HEAVY DUTY

- Machined brass body; Polished chrome bonnet
- Easy-to-read single scale 2" gauges
- 15/8" tri-layered reinforced neoprene diaphragm 1st stage
- 2" tri-layered reinforced neoprene diaphragm 2nd stage
- Heavy duty mechanical stem type seat & nozzle assembly
- Delrin bushing for smooth flow adjustment
- Porous metal inlet filter (except CO₂ models)
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only



MADE IN U.S.A.



**MAXIMUM INLET
3000 PSIG**

**TWO
STAGE**

RHT8010

PART# UPC#	RHT8010 11100	RHT8011 11101	RHT8011-1 11102	RHT8011-CND 11003
CGA INLET	OXYGEN 540	ACETYLENE 510	ACETYLENE 300	ACETYLENE 410
OUTLET CONNECTION	"B" (RH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)
DEL. PSIG	5-125	2-15	2-15	2-15
REPLACEMENT 2" GAUGES	G4S; 200 PSI G7S; 4000 PSI	G2S; 30 PSI (RL) G1S; 400 PSI	G2S; 30 PSI (RL) G1S; 400 PSI	G2S; 30 PSI (RL) G1S; 400 PSI

PART# UPC#	RHT8012 11104	RHT8013 11105	RHT8014 11106	RHT8015 11107	RHT8015A-1 11108
CGA INLET	LPG & ALL FUEL GAS 510	CARBON DIOXIDE 320	ARGON 580	NITROGEN 580	NITROGEN 580
OUTLET CONNECTION	"B" (LH) 9/16"-18(M)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	5/8"-18(RH) (F)	1/4" FLARE (M)
DEL. PSIG	2-40	5-125	5-125	5-125	5-125
REPLACEMENT 2" GAUGES	G5S; 60 PSI G1S; 400 PSI	G4S; 200 PSI G3S; 3000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI

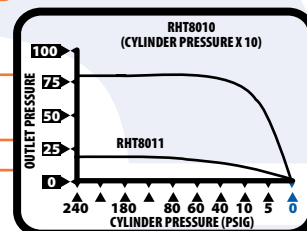
PART# UPC#	RHT8016 11109	RHT8017 11110	RHT8018 11111	RHT8018A-1 11112	RHT8018-2 11113
CGA INLET	HELIUM 580	HYDROGEN 350	AIR 346	AIR 346	AIR 346
OUTLET CONNECTION	5/8"-18(RH) (F)	"B" (LH) 9/16"-18(M)	9/16"-18(RH) (M)	1/4" FLARE (M)	5/8"-18 (LH) (F)
DEL. PSIG	5-125	5-125	5-125	5-125	5-125
REPLACEMENT 2" GAUGES	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

RHT80 SERIES DIMENSIONS

Depth:	8 1/4"
Width:	7"
Height:	5 1/4"
Weight:	4 lbs.

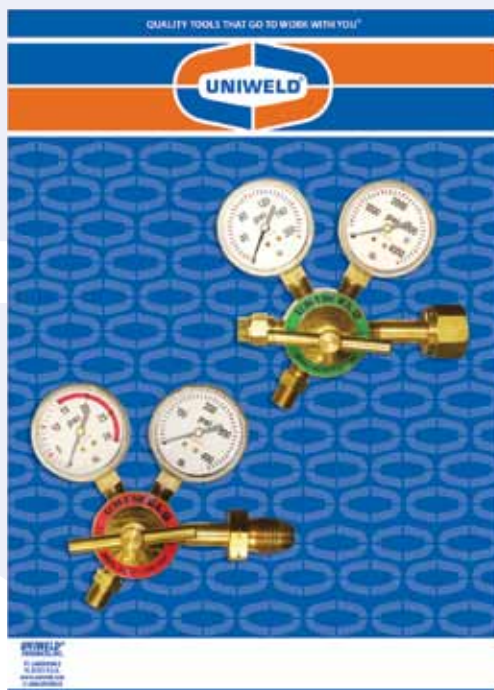
*Two Stage
Regulators have little
pressure rise with
cylinder pressure
decrease.*



**Maximum Flow = 1500 SCFH
Free Air @ 70° F
No Flow Restrictions**

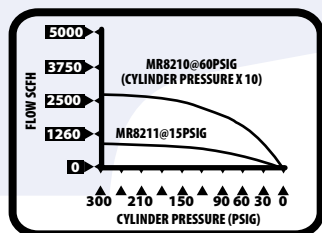
**NOTE: The standard cubic foot
per hour flows are obtained
with the regulator outlet
full open with no restrictions;
using a preset outlet pressure
and with decreasing
cylinder pressure.**

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour

**KMR82****MR SERIES
DIMENSIONS**

Depth:	4½"
Width:	7"
Height:	5½"
Weight:	2½ lbs.

Single Stage Regulators
have pressure rise of
approx. 1/2 psi (.5) per
100 psi drop in
cylinder pressure.



Maximum Flow = 2600 SCFH
Free Air @ 70° F
No Flow Restrictions

NOTE: The standard cubic foot
per hour flows are obtained
with the regulator outlet
full open with no restrictions;
using a preset outlet pressure
and with decreasing
cylinder pressure.

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

MR82 SERIES
MEDIUM DUTY

- Machined brass body & bonnet
- Easy-to-read single scale 2" gauges
- 1½" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat
- T-handle for smooth flow adjustment
- Porous bronze inlet filter
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only



MADE IN U.S.A.



**MAXIMUM INLET
3000 PSIG**

**MR8210**

PART# UPC#	MR8210 12200	MR8211 12201	MR8211-1 12202
CGA INLET	OXYGEN 540	ACETYLENE 510	ACETYLENE 300
OUTLET CONNECTION	"B" (RH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)
DEL. PSIG	5-80	2-15	2-15
REPLACEMENT 2" GAUGES	G4S; 200 PSI G7S; 4000 PSI	G2S; 30 PSI (RL) G1S; 400 PSI	G2S; 30 PSI (RL) G1S; 400 PSI

PART# UPC#	MR8211-2 12203	MR8212 12208	KMR82 12260
CGA INLET	ACETYLENE 520	LPG & ALL FUEL GAS 510	MR8210 OXYGEN REGULATOR, MR8211 ACETYLENE REGULATOR SET CARDED ON DISPLAY BOARD
OUTLET CONNECTION	"B" (LH) 9/16"-18(M)	"B" (LH) 9/16"-18(M)	
DEL. PSIG	2-15	2-40	
REPLACEMENT 2" GAUGES	G2S; 30 PSI (RL) G1S; 400 PSI	G5S; 60 PSI G1S; 400 PSI	



MASTAR® RS REGULATORS

SINGLE
STAGE

MASTAR® RS SERIES LIGHT DUTY

- Forged brass body
- Machined brass bonnet
- Easy-to-read single scale 1½" gauges
- 15/8" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat
- Rear inlet cylinder connection
- Porous metal inlet filter
- T-handle for smooth adjustment
- Blow off disc type pressure relief for low pressure gauge protection only
- Protective rubber gauge boots



MADE IN U.S.A.



RSMC2B



RSO

UL LISTED
592H

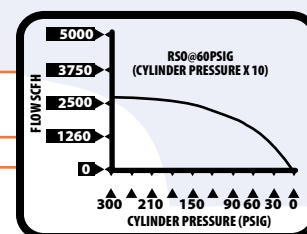
MAXIMUM INLET
3000 PSIG

MASTAR® RS SERIES DIMENSIONS

Depth:	6"
Width:	3¾"
Height:	4¼"
Weight:	2½ lbs.

Single Stage Regulators have pressure rise of approx. 1/2 psi (.5) per 100 psi drop in cylinder pressure.

PART# UPC#	RSO 12100	RSOB 12101	12106 12106	12107 12107
CGA INLET	OXYGEN 540	OXYGEN 540	OXYGEN 540	ACETYLENE 520
OUTLET CONNECTION	"A" (RH) 3/8"-24(M)	"B" (RH) 9/16"-18(M)	"A" (RH) 3/8"-24(M)	"A" (LH) 3/8"-24(M)
DEL. PSIG	2-60	2-60	2-60	2-15
REPLACEMENT 1½" GAUGES	G49; 100 PSI G56; 4000 PSI	G49; 100 PSI G56; 4000 PSI	G85-1; 100 PSI/Kg G82-1; 4000 PSI/Kg	G79-1; 30 PSI/Kg (RL) G73-1; 400 PSI/Kg



PART# UPC#	RSMC2 12102	RSMC2B 12103	RSB2 12104	RSB2B 12105
CGA INLET	ACETYLENE 200	ACETYLENE 200	ACETYLENE 520	ACETYLENE 520
OUTLET CONNECTION	"A" (LH) 3/8"-24(M)	"B" (LH) 9/16"-18(M)	"A" (LH) 3/8"-24(M)	"B" (LH) 9/16"-18(M)
DEL. PSIG	2-15	2-15	2-15	2-15
REPLACEMENT 1½" GAUGES	G15; 30 PSI (RL) G19; Contents (400 PSI MAX.)	G15; 30 PSI (RL) G19; Contents (400 PSI MAX.)	G15; 30 PSI (RL) G19; Contents (400 PSI MAX.)	G15; 30 PSI (RL) G19; Contents (400 PSI MAX.)

Maximum Flow = 2600 SCFH
Free Air @ 70° F
No Flow Restrictions

NOTE: The standard cubic foot per hour flows are obtained with the regulator outlet full open with no restrictions; using a preset outlet pressure and with decreasing cylinder pressure.

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

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Replacement gauges on display card are fitted with gauge boots (Add -D to Part Number)

R SERIES

LIGHT DUTY



RO100



RO



MADE IN U.S.A.



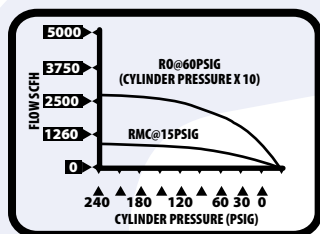
RMC

- Brass body
- Easy-to-read single scale 1½" gauges
- 1½" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat
- Porous metal inlet filter
- Rear inlet cylinder connection
- Brass "T" handle or forged brass adjusting screw with locking retaining ring
- Blow off disc type pressure relief (on RO)
- for low pressure gauge protection only
- Protective rubber gauge boots



MAXIMUM INLET
3000 PSIG

R SERIES PAGES 82-83



Maximum Flow = 2600 SCFH
Free Air @ 70° F

No Flow Restrictions

NOTE: The standard cubic foot per hour flows are obtained with the regulator outlet full open with no restrictions; using a preset outlet pressure and with decreasing cylinder pressure.

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour

PART# UPC#	RO 12000	ROB 12001	RO100 14100
CGA INLET	OXYGEN 540	OXYGEN 540	OXYGEN 540
OUTLET CONNECTION	"A" (RH) 3/8"-24(M)	"B" (RH) 9/16"-18(M)	"A" (RH) 3/8"-24(M)
DEL. PSIG	2-60	2-60	2-60
REPLACEMENT 1½" GAUGES	G49; 100 PSI G56; 4000 PSI	G49; 100 PSI G56; 4000 PSI	G49; 100 PSI G56; 4000 PSI

PART# UPC#	RMC 12006	RMC2 12007	RMC100 14102
CGA INLET	ACETYLENE 200	ACETYLENE 200	ACETYLENE 200
OUTLET CONNECTION	"A" (LH) 3/8"-24(M)	"A" (LH) 3/8"-24(M)	"A" (LH) 3/8"-24(M)
DEL. PSIG	2-15	2-15	2-15
REPLACEMENT 1½" GAUGES	G19; Contents (400 PSI MAX.) (400 PSI MAX.)	G15; 30 PSI (RL) G19; Contents	G15; 30 PSI (RL) G19; Contents (400 PSI MAX.)

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)



R SERIES REGULATORS

SINGLE
STAGE

R SERIES LIGHT DUTY

TECH TIP

When not in use, the regulator should be properly shut off by turning the pressure adjusting screw counterclockwise until closed. If the pressure adjusting screw is in the open position when the cylinder valve is opened, the surge of high pressure may damage the regulator. This commonly occurs with the use of oxygen due to high cylinder pressure. To insure proper protection procedures, follow UniWeld's operating instructions.



RLP



RMC2



RB



MADE IN U.S.A.



- Forged brass body
- Polished chrome bonnet
- Easy-to-read single scale 1 1/2" gauges
- 1 5/8" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat
- Porous metal inlet filter
- Rear inlet cylinder connection
- Forged brass adjusting screw with locking retaining ring
- Blow off disc type pressure relief for low pressure gauge protection only
- Protective rubber gauge boots

**MAXIMUM INLET
3000 PSIG**

PART# UPC#	RB 12010	RB2 12011	RLP 12014	RLPB 12015
CGA INLET	ACETYLENE 520	ACETYLENE 520	LPG & ALL FUEL GASES 510	LPG & ALL FUEL GASES 510
OUTLET CONNECTION	"A" (LH) 3/8"-24(M)	"A" (LH) 3/8"-24(M)	"A" (LH) 3/8"-24(M)	"B" (LH) 3/8"-24(M)
DEL. PSIG	2-15	2-15	2-40	2-40
REPLACEMENT 1 1/2" GAUGES	G19; Contents (400 PSI MAX.)	G15; 30 PSI (RL) G19; Contents (400 PSI MAX.)	G83; 60 PSI	G83; 60 PSI

R SERIES PAGES 82-83

R SERIES DIMENSIONS

Depth:	4 1/2"
Width:	4 1/4"
Height:	4"
Weight:	2 lbs.

*R0100: 3 1/2"
*RMC100: 3 1/2"

Single Stage Regulators have pressure rise of approx. 1/2 psi (.5) per 100 psi drop in cylinder pressure.

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

Replacement gauges on display card are fitted with gauge boots (Add -D to Part Number)

SINGLE
STAGE

REGULATORS

RUH SERIES
"CONTRACTOR"



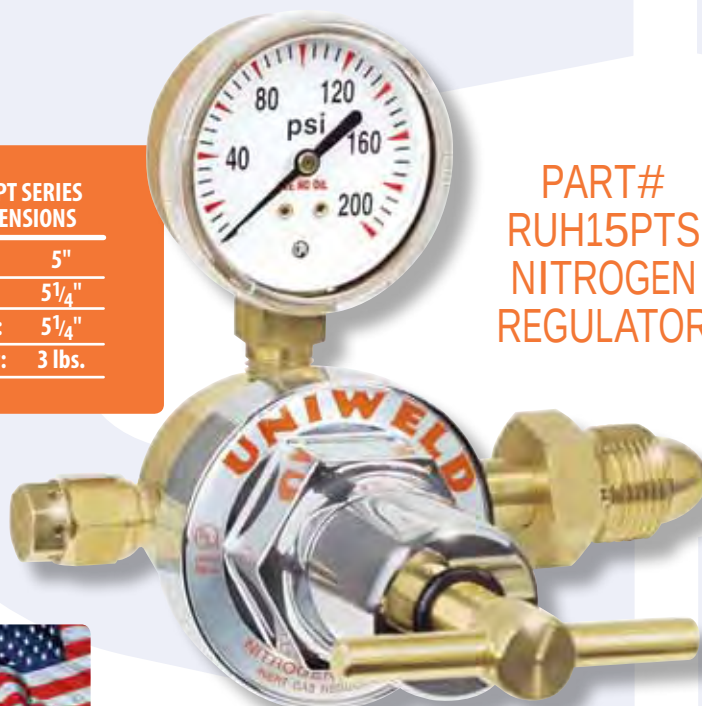
RUH SERIES
SPECIAL PURPOSE

CO₂ AND NITROGEN REGULATORS FOR PNEUMATIC TOOLS

RUHPT SERIES DIMENSIONS

Depth:	5"
Width:	5 1/4"
Height:	5 1/4"
Weight:	3 lbs.

PART#
RUH15PTS
NITROGEN
REGULATOR



MADE IN U.S.A.

- Use "air" tools in the field with standard CO₂ and Nitrogen cylinders
- 1/4" NPT female outlet for air fittings
- Easy-to-read single scale 2" gauges
- T-handle for easy flow adjustment up to 125 PSI max.
- Durable seat assembly for long life
- Pressure relief safety device
- Weighs only 3 pounds

Have you checked your seats lately?

The improved, efficient RUV21G high pressure [green] seat used in all RUH Series high pressure regulators provides long, trouble-free service.

It is also sold separately as a replacement item.

Use for high pressure service [Hydrogen, Oxygen, Nitrogen, Helium, Argon, CO₂ & Air]



RUV21G

UL LISTED
592H

PART#
RUH8213PT
CO₂ REGULATOR



MAXIMUM INLET
3000 PSIG

RUH82PT SERIES DIMENSIONS

Depth:	5"
Width:	6 1/4"
Height:	5 1/4"
Weight:	3 lbs.

PART#
UPC#

RUH13PTS
11370

RUH15PTS
11380

RUH8213PT
11095

RUH8215PT
11092

CGA
INLET

CARBON DIOXIDE
320

NITROGEN
580

CARBON DIOXIDE
320

NITROGEN
580

OUTLET
CONNECTION

1/4" NPT (F)

1/4" NPT (F)

1/4" NPT (F)

1/4" NPT (F)

DEL. PSIG

5-125

5-125

5-125

5-125

REPLACEMENT
2" GAUGES

G4S; 200 PSI

G4S; 200 PSI

G4S; 200 PSI
G3S; 3000 PSI

G4S; 200 PSI
G7S; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)



SERIES RHP REGULATORS

SINGLE
STAGE

RHP SERIES SPECIAL PURPOSE

- Piston actuated seat for durability
- Easy-to-read single scale 2" gauges
- Steel case construction with polycarbonate lens
- Protective rubber gauge boots
- Porous metal inlet filter
- Fine mesh filter screen between inlet and seat
- T-handle for ease of pressure adjustment
- For all your testing and evaluating needs

RHP200 Also can be used for operating pneumatic tools such as nail guns and impact wrenches

RHP400 and RHP800 Purging and pressure testing regulators. Designed for the HVAC-R technician

RHP800 and RHP1500 For high pressure testing applications

RHP3000 and RHP3680 For high pressure testing of cylinders & vessels



RHP400

**MAXIMUM INLET
3000 PSIG**

PART# UPC#	RHP200* 13500	RHP218* 13501	RHP400 13000	RHP418 13001
CGA INLET	NITROGEN 580	AIR 346	NITROGEN 580	AIR 346
OUTLET CONNECTION	1/4" FLARE (M)	1/4" FLARE (M)	1/4" FLARE (M)	1/4" FLARE (M)
DEL. PSIG	5-180	5-180	20-400	20-400
REPLACEMENT 2" GAUGES	G4S; 200 PSI G7S; 4000 PSI	G4S; 200 PSI G7S; 4000 PSI	G8S; 600 PSI G7S; 4000 PSI	G8S; 600 PSI G7S; 4000 PSI

RHP200; RHP400; RHP800 DIMENSIONS

Depth:	4 1/4"
Width:	5 3/4"
Height:	5 1/4"
Weight:	2 1/2 lbs.

PART# UPC#	RHP800 13800	RHP818 13801
CGA INLET	NITROGEN 580	AIR 346
OUTLET CONNECTION	1/4" FLARE (M)	1/4" FLARE (M)
DEL. PSIG	50-800	50-800
REPLACEMENT 2" GAUGES	G34S; 1000 PSI G7S; 4000 PSI	G34S; 1000 PSI G7S; 4000 PSI

RHP1500; RHP3000 DIMENSIONS

Depth:	5 1/2"
Width:	6"
Height:	5 1/4"
Weight:	3 1/2 lbs.

**Adequate flow to operate most pneumatic equipment on the market today.*

PART# UPC#	RHP1500 13300	RHP1518 13301	RHP3000 13600	RHP3018 13601	RHP3680 13650
CGA INLET	NITROGEN 580	AIR 346	NITROGEN 580	AIR 346	NITROGEN 680
OUTLET CONNECTION	1/4" NPT (F)	1/4" NPT (F)	1/4" NPT (F)	1/4" NPT (F)	1/4" NPT (F)
DEL. PSIG	100-1500	100-1500	200-2500	200-2500	200-3000
REPLACEMENT 2" GAUGES	G3S; 3000 PSI G7S; 4000 PSI	G3S; 3000 PSI G7S; 4000 PSI	G7S; 4000 PSI G44S; 6000 PSI	G7S; 4000 PSI G44S; 6000 PSI	G7S; 4000 PSI G44S; 6000 PSI

For special needs such as 1/4" swage lock fittings, (panel mount, etc.), contact customer service for availability.

**RHP3680
MAXIMUM INLET
5000 PSIG**

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

SINGLE
STAGE
DELIVERY
GAUGE
ONLY

REGULATORS SPECIALTY



1300 and 1500 SERIES

CO₂ and NITROGEN SPECIALTY REGULATORS

- Regulators are designed for soft drink dispensing systems (NOT BEER) and many types of pressurizing applications
- Easy-to-read single scale 1½" gauges
- 1⅝" tri-layered reinforced neoprene diaphragm
- Adjustable pressure screw with locking nut
- Porous metal inlet filter on Nitrogen and air regulators, but not installed on CO₂ models
- CO₂ models with 1/4" SAE flare outlet have a built-in reverse flow check valve
- Rubber protective gauge boots



MADE IN U.S.A.

R1563 is shipped with protective rubber gauge boots

**MAXIMUM INLET
3000 PSIG**



**1300; 1500;
1800 SERIES
DIMENSIONS**

Depth:	3"
Width:	5¼"
Height:	5¼"
Weight:	2 lbs.

PART# UPC#	R1344 12300	R1346 12302	R1347 12303	R1349 12305	R1358 12306	R1360 12308
CGA INLET	CO ₂ 320	CO ₂ 320	CO ₂ 320	CO ₂ 320	CO ₂ 320	CO ₂ 320
OUTLET CONNECTION	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)
DEL. PSIG	2-12	5-50	5-80	5-175	2-12	5-50
REPLACEMENT 1½" GAUGES	G20; 15 PSI	G83; 60 PSI	G85; 1000 PSI	G84; 300 PSI G82; 4000 PSI	G20; 15PSI G82; 4000 PSI	G93; 60PSI

PART# UPC#	R1362 12310	R1363 12311	R1546 12402	R1549 12405	R1558 12406
CGA INLET	CO ₂ 320	CO ₂ 320	NITROGEN 580	NITROGEN 580	NITROGEN 580
OUTLET CONNECTION	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)
DEL. PSIG	5-120	5-175	5-50	5-175	2-12
REPLACEMENT 1½" GAUGES	G78; 200 PSI G82; 4000 PSI	G84; 300 PSI G82; 4000 PSI	G83; 60 PSI	G84; 300 PSI	G20; 15 PSI G82; 4000 PSI

PART# UPC#	R1560 12408	R1562 12410	R1536 12411
CGA INLET	NITROGEN 580	NITROGEN 580	NITROGEN 580
OUTLET CONNECTION	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)	1/4" SAE FLARE (M)
DEL. PSIG	5-50	5-120	5-175
REPLACEMENT 1½" GAUGES	G83; 60 PSI G82; 4000 PSI	G78; 200 PSI G82; 4000 PSI	G84; 300 PSI G82; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

86

Replacement gauges on display card are fitted with gauge boots (Add -D to Part Number)



REGULATORS SPECIALTY

SINGLE
STAGE
DELIVERY
CONTENTS
GAUGES

MegaReg



HIGH FLOW OXYGEN REGULATOR

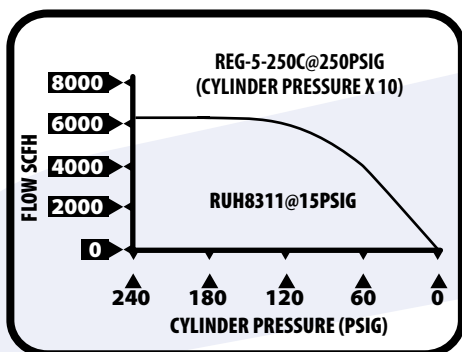
- CGA540 Inlet Connection
- Machined brass body
- Polished chrome bonnet
- Easy-to-read single scale 2.5" gauges
- 2 1/2" tri-layered reinforced neoprene diaphragm
- Heavy duty mechanical stem type seat and nozzle assembly
- Delrin bushing for smooth flow adjustment
- Porous metal inlet filter (except CO₂ models)
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only



MADE IN U.S.A.

MAXIMUM FLOW
6500 PSIG

MAXIMUM INLET
3000 PSIG



MEGAREG SERIES DIMENSIONS

Depth: 5.5"
Width: 7.5"
Height: 7"
Weight: 4 lbs.

Single Stage Regulators have pressure rise of approximately 1/2 psi (.5) per 100 psi drop in cylinder pressure.

*Maximum Flow = 6500 SCFH
Free Air @ 70°F. No Flow Restrictions
Note: The standard cubic foot per hour flows are obtained with the regulator outlet full open with no restrictions; using a preset outlet pressure and with decreasing cylinder pressure.*

PSIG = Pounds per square inch gauge.
SCFH = Standard cubic feet per hour.

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

PART# UPC#	MGR250B 11900	MGR250C 11901	MGR500B 11905	MGR500C 11906
CGA INLET	CGA540	CGA540	CGA540	CGA540
OUTLET CONNECTION	"B" (RH) 9/16" -18 (M)	"C" (RH) 7/8" -14 (M)	"B" (RH) 9/16" -18 (M)	"C" (RH) 7/8" -14 (M)
DEL. PSIG	10-250	10-250	20-500	20-500
REPLACEMENT 2.5" GAUGES	G21S; 400 PSI G27S; 4000 PSI	G21S; 400 PSI G27S; 4000 PSI	G28S; 600 PSI G27S; 4000 PSI	G28S; 600 PSI G27S; 4000 PSI

Replacement gauges on display card are fitted with gauge boots (Add -D to Part Number)



MADE IN U.S.A.

RUHS SERIES

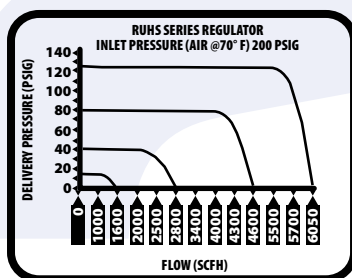
- Machined brass body
- Polished chrome bonnet
- Easy-to-read single scale 2" gauges
- 2" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat
- Delrin bushing for smooth flow adjustment
- Porous metal inlet filter (except CO₂ models)
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only

⚠ WARNING!
DO NOT CONNECT A LINE
REGULATOR TO A CYLINDER!

RUHS SERIES
DIMENSIONS

Depth:	5 1/2"
Width:	5"
Height:	6"
Weight:	3 1/2 lbs.

RUHS8210



Single Stage Regulators
have pressure rise of
approx. 1/2 psi (.5) per
100 psi drop in
cylinder pressure.

**MAXIMUM INLET
200 PSIG**

Maximum Flow = 6050 SCFH
Free Air @ 70° F

No Flow Restrictions

NOTE: The standard cubic foot
per hour flows are obtained
with the regulator outlet
full open with no restrictions;
using a preset outlet pressure
and with a decreasing
cylinder pressure.

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour



RUHS8210

PART#
UPC#RUHS8210
11300RUHS8211
11301RUHS8212
11302RUHS8213
11303RUHS8214
11304RUHS8215
11305CGA
INLETOXYGEN
CGA024
7/8"-14(RH) (F)ACETYLENE
CGA025
7/8"-14(LH) (F)LPG & ALL FUEL GASES
CGA025
7/8"-14(LH) (F)CO₂
CGA034
7/8"-14(RH) (M)ARGON
CGA034
7/8"-14(RH) (M)NITROGEN
CGA034
7/8"-14(RH) (M)OUTLET
CONNECTION"B" (RH)
9/16"-18 (M)"B" (LH)
9/16"-18 (M)"B" (LH)
9/16"-18 (M)RH (F)
5/8"-18RH (F)
5/8"-18RH (F)
5/8"-18

DEL. PSIG

5-125

2-15

2-40

5-125

5-125

5-125

REPLACEMENT
2" GAUGE

G4S; 200 PSI

G2S; 30 PSI (RL)

G5S; 60 PSI

G4S; 200 PSI

G4S; 200 PSI

G4S; 200 PSI



SERIES RUHL REGULATORS

SINGLE
STAGE

RUHL SERIES LINE REGULATORS



MADE IN U.S.A.



- Machined brass body
- Polished chrome bonnet
- Easy-to-read single scale 2" gauges
- 2" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat
- Delrin bushing for smooth flow adjustment
- Pressure relief device for low pressure gauge protection only

WARNING!
DO NOT CONNECT A LINE
REGULATOR TO A CYLINDER!

RUHL SERIES DIMENSIONS

Depth:	5 1/2"
Width:	3 1/2"
Height:	6"
Weight:	3 1/2 lbs.

RUHL8210



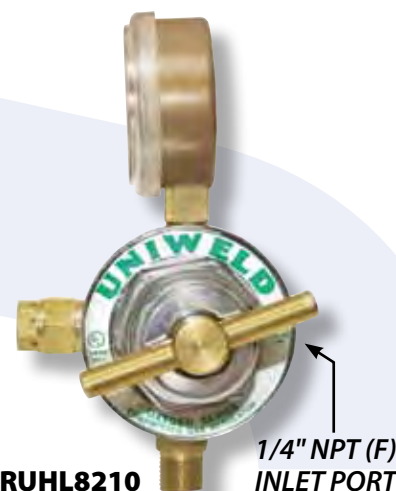
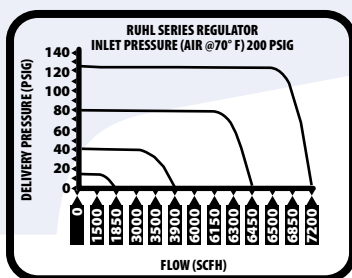
Single Stage Regulators
have pressure rise of
approx. 1/2 psi (.5) per
100 psi drop in
cylinder pressure.

**MAXIMUM INLET
350 PSIG**

Maximum Flow = 7200 SCFH
Free Air @ 70° F
No Flow Restrictions

NOTE: The standard cubic foot
per hour flows are obtained
with the regulator outlet
full open with no restrictions;
using a preset outlet pressure
and with a decreasing
cylinder pressure.

PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour



RUHL8210

1/4" NPT (F)
INLET PORT

PART#
UPC#

RUHL8210
11200

RUHL8211
11201

RUHL8212
11202

RUHL8213
11203

RUHL8214
11204

RUHL8215
11205

CGA
INLET

OXYGEN
1/4" NPT (F)

ACETYLENE
1/4" NPT (F)

LP & ALL FUEL GASES
1/4" NPT (F)

CO.
1/4" NPT (F)

ARGON
1/4" NPT (F)

NITROGEN
1/4" NPT (F)

OUTLET
CONNECTION

"B" RH
9/16"-18(M)

"B" LH
9/16"-18(M)

"B" LH
9/16"-18(M)

RH (F)
5/8"-18

RH (F)
5/8"-18

RH (F)
5/8"-18

DEL. PSIG

5-125

2-15

2-40

5-125

5-125

5-125

REPLACEMENT
2" GAUGES

G4S; 200 PSI

G2S; 30 PSI (RL)

G5S; 60PSI

G4S; 200 PSI

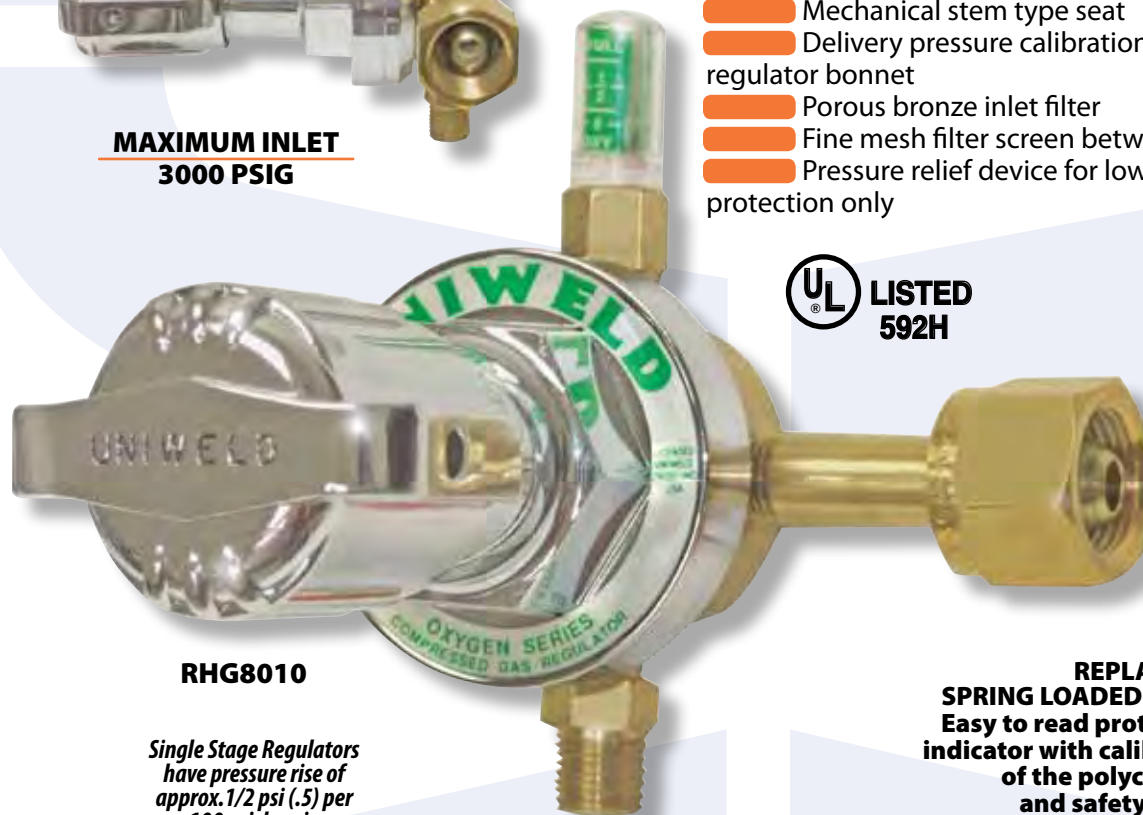
G4S; 200 PSI

G4S; 200 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

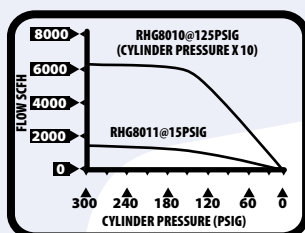


**MAXIMUM INLET
3000 PSIG**



RHG8010

*Single Stage Regulators
have pressure rise of
approx. 1/2 psi (.5) per
100 psi drop in
cylinder pressure.*



*Maximum Flow = 6300 SCFH
Free Air @ 70°F
No Flow Restrictions*

*NOTE: The standard cubic foot
per hour flows are obtained
with the regulator outlet
full open with no restrictions;
using a preset outlet pressure
and with decreasing
cylinder pressure.*

*PSIG - Pounds per sq. in. gauge
SCFH - Standard cu. ft. per hour*

RHG GAUGELESS SERIES

SPECIAL PURPOSE

- Machined brass body & polished chrome bonnet
- Color coded spring loaded cylinder gauge indicator
- 2" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat
- Delivery pressure calibrations inscribed on regulator bonnet
- Porous bronze inlet filter
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure gauge protection only



RHG SERIES DIMENSIONS

Depth:	6 1/4"
Width:	5 1/2"
Height:	4 1/2"
Weight:	4 lbs.

**REPLACEMENT
SPRING LOADED CONTENTS GAUGES**
Easy to read protected inlet pressure
indicator with calibrations on the inside
of the polycarbonate cover
and safety color coding.

PART#	DESCRIPTION
G59	PROPANE (BLUE)
G60	OXYGEN (GREEN)
G61	ACETYLENE (RED)



G59



G60



G61

PART#
UPC#

RHG8010
11400

RHG8011
11401

RHG8011-1
11402

RHG8011-CND
11403

RHG8012
11404

CGA
INLET

OXYGEN
540

ACETYLENE
510

ACETYLENE
300

ACETYLENE
410

LP & ALL FUEL GASES
510

OUTLET
CONNECTION

"B" (RH)
9/16"-18(M)

"B" (LH)
9/16"-18(M)

"B" (LH)
9/16"-18(M)

"B" (LH)
9/16"-18(M)

"B" (LH)
9/16"-18(M)

DEL. PSIG

5-100

2-15

2-15

2-15

2-40

REPLACEMENT
SPRING LOADED
CONTENTS GAUGES

G60

G61

G61

G61

G59



RHF FLOWMETER REGULATOR

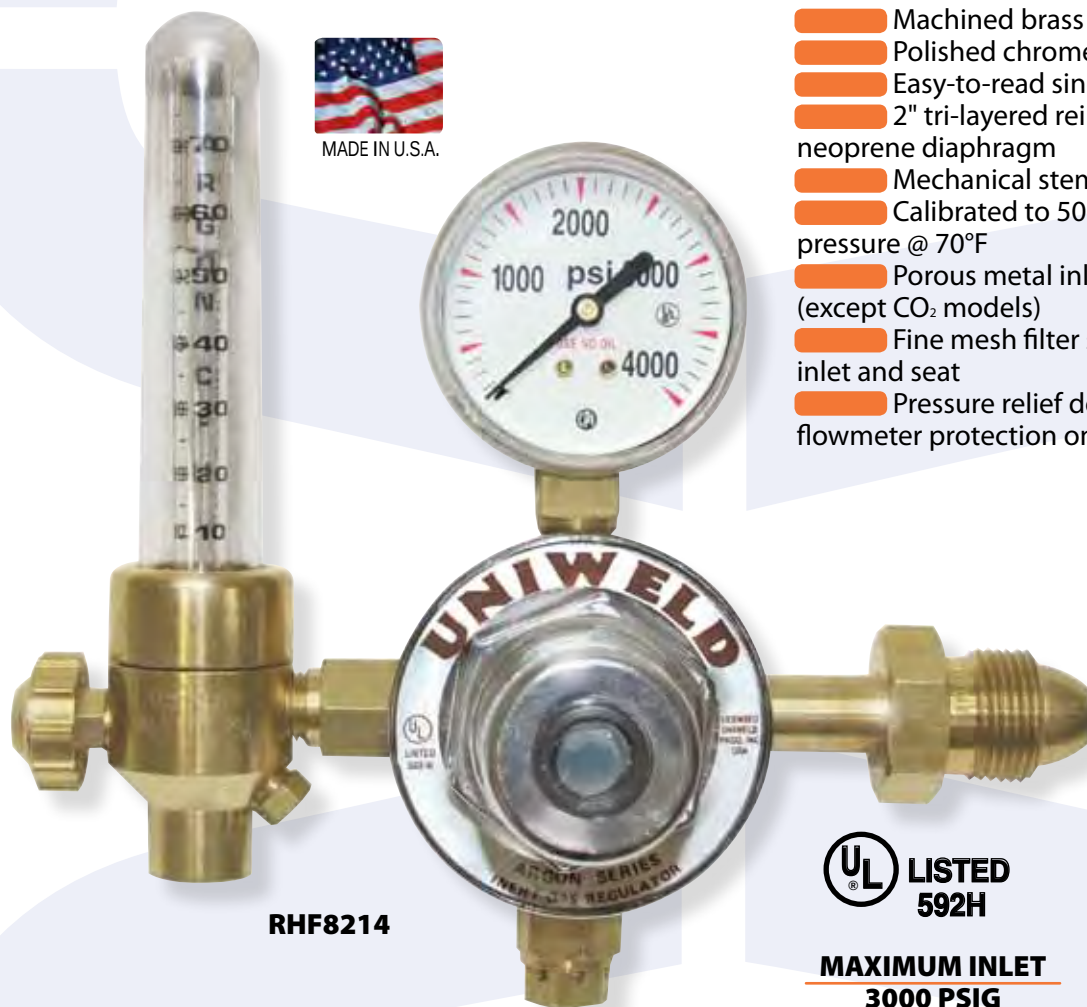
SINGLE
STAGE

RHF SERIES FLOWMETER REGULATORS

The UniWeld flowmeter regulator is designed for MIG and TIG welding. Flowmeters are more accurate than flowgauge regulators. The pressure gauge shows how much gas is left in the tank and goes from 0 to 4000 PSI. The output flow is adjustable in cubic feet per hour and is indicated by the ball which moves up and down in the flow tube. This flowmeter will handle MIG and TIG welding for both steel and aluminum.



MADE IN U.S.A.



RHF8214

- Machined brass body
- Polished chrome bonnet
- Easy-to-read single scale 2" gauges
- 2" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat
- Calibrated to 50 PSI outlet pressure @ 70°F
- Porous metal inlet filter (except CO₂ models)
- Fine mesh filter screen between inlet and seat
- Pressure relief device for low pressure flowmeter protection only



**MAXIMUM INLET
3000 PSIG**

RHF SERIES DIMENSIONS

Depth:	4"
Width:	7 1/2"
Height:	7"
Weight:	4 lbs.

SINGLE GAS CALIBRATION

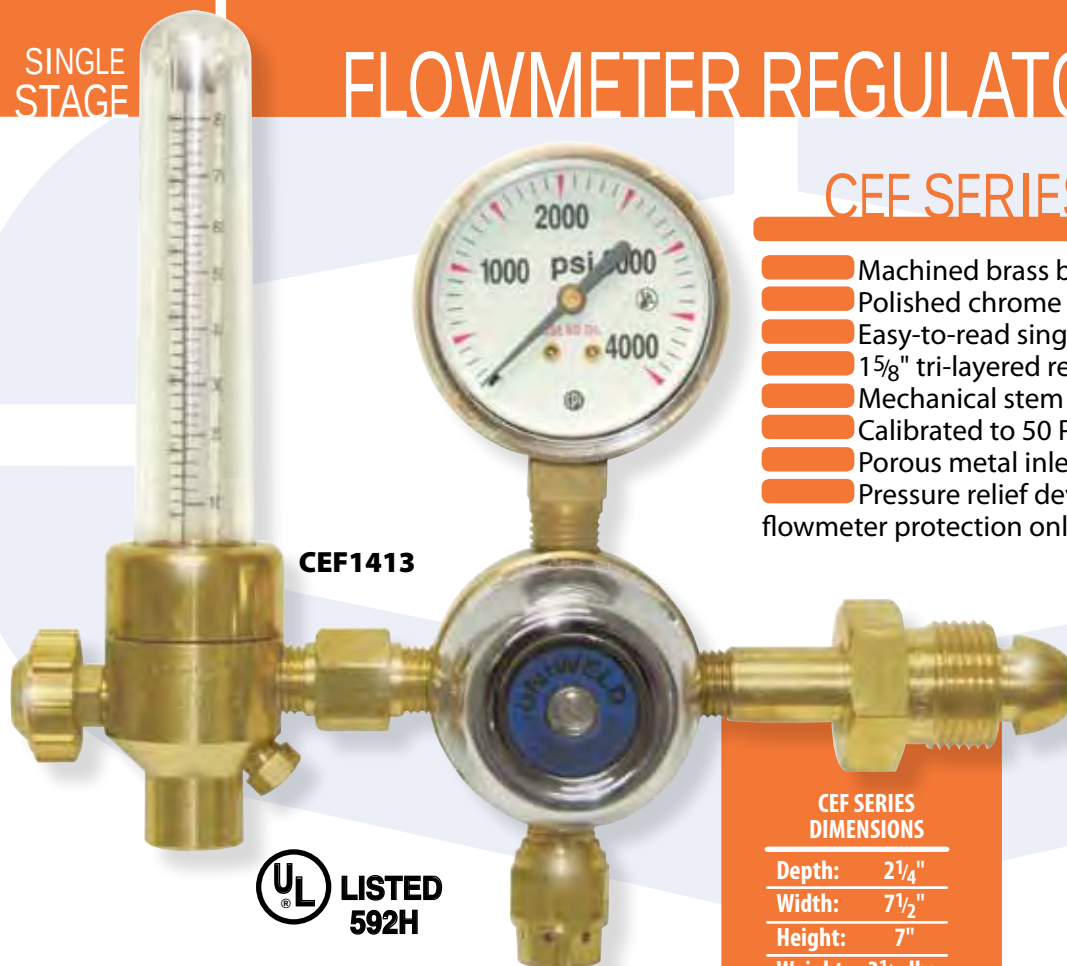
TWO GAS CALIBRATION

PART# UPC#	RHF8213 11600	RHF8214 11601	RHF1413 11616	RHF8214-6 11602	RHF8214-8 11603	RHF8214-10 11604
CGA INLET	CO ₂ 320	ARGON 580	ARGON/CO ₂ 580	ARGON/HELIUM 580	ARGON/HELIUM 580	ARGON/HELIUM 580
OUTLET CONNECTION	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)
FLOW CAP. (SCFH)	10-80	10-70	10-70	2-18/5-50	5-40/10-110	10-70/25-205
REPLACEMENTS						
FLOWMETER TUBE COVER	UAF22	UAF22	UAF22	UAF22	UAF22	UAF22
TUBE	UCF18	UAF18	UACF18	UAHF18	UAHF18-1	UAHF18-2
2" GAUGES	G3S; 3000 PSI	G7S; 4000 PSI	G7S; 4000 PSI	G7S; 4000 PSI	G7S; 4000 PSI	G7S; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

SINGLE
STAGE

FLOWMETER REGULATOR CEF



CEF1413



**MAXIMUM INLET
3000 PSIG**

CEF SERIES

- Machined brass body
- Polished chrome bonnet
- Easy-to-read single scale 2" gauges
- 15/8" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat
- Calibrated to 50 PSI outlet pressure @ 70°F
- Porous metal inlet filter (except CO₂ models)
- Pressure relief device for low pressure flowmeter protection only



MADE IN U.S.A.

CEF SERIES DIMENSIONS

Depth:	2 1/4"
Width:	7 1/2"
Height:	7"
Weight:	3 1/2 lbs.



KF14-8

SINGLE GAS CALIBRATION

PART# UPC#	CEF13 12500	CEF14 12501
CGA INLET	CO ₂ 320	ARGON 580
OUTLET CONNECTION	5/8"-18 RH(F)	5/8"-18 RH(F)
FLOW CAP. (SCFH)	10-80	10-70
REPLACEMENTS		
FLOWMETER TUBE COVER	UAF22	UAF22
TUBE	UCF18	UAF18
2" GAUGE	G3S; 3000 PSI	G7S; 4000 PSI

TWO GAS CALIBRATION

PART# UPC#	CEF1413 12505	CEF14-6 12502	CEF14-8 12503	CEF14-10 12504
CGA INLET	ARGON/CO ₂ 580	ARGON/HELIUM 580	ARGON/HELIUM 580	ARGON/HELIUM 580
OUTLET CONNECTION	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)
FLOW CAP. (SCFH)	10-70	2-18/5-50	5-40/10-110	10-70/25-205
REPLACEMENTS				
FLOWMETER TUBE COVER	UAF22	UAF22	UAF22	UAF22
TUBE	UACF18	UAHF18	UAHF18-1	UAHF18-2
2" GAUGE	G7S; 4000 PSI	G7S; 4000 PSI	G7S; 4000 PSI	G7S; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

COMPLETE MIG KIT	PART# UPC#	KF13 89510	KF14 89511	KF1413 89512	KF14-6 89513	KF14-8 89514	KF14-10 89515
FLOWMETER	CEF13	CEF13	CEF14	CEF1413	CEF14-6	CEF14-8	CEF14-10
GAS CALIBRATION	CO ₂	CO ₂	ARGON	ARGON/CO ₂	ARGON HELIUM	ARGON HELIUM	ARGON HELIUM
HOSE	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS



FR FLOWMETER REGULATOR

SINGLE
STAGE



KFR13



FR13



MADE IN U.S.A.

FR SERIES FLOWMETER REGULATORS

- Combination regulator & flowmeter in one unit
- Machined brass body
- Piston activated
- Calibrated to 50 PSI outlet pressure @ 70°F
- Easy-to-read single scale 1½" gauge
- Pressure relief device for low pressure flowmeter protection only

FR SERIES DIMENSIONS

Depth:	3¼"
Width:	5¼"
Height:	6¼"
Weight:	1½ lbs.



**MAXIMUM INLET
3000 PSIG**

SINGLE GAS CALIBRATION

TWO GAS CALIBRATION

PART# UPC#	FR13 12800	FR14 12801	FR1413 12802	FR14-6 12803	FR14-8 12804	FR14-10 12805
CGA INLET	CO ₂ 320	ARGON 580	ARGON/CO ₂ 580	ARGON/HELIUM 580	ARGON/HELIUM 580	ARGON/HELIUM 580
OUTLET CONNECTION	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)
FLOW CAP. (SCFH)	10-80	10-70	10-70	2-18/5-50	5-40/10-110	10-70/25-205
REPLACEMENTS						
FLOWMETER TUBE COVER	UAF22	UAF22	UAF22	UAF22	UAF22	UAF22
TUBE	UCF18	UAF18	UACF18	UAHF18	UAHF18-1	UAHF18-2
1½" GAUGE	G182; 4000 PSI	G182; 4000 PSI	G182; 4000 PSI	G182; 4000 PSI	G182; 4000 PSI	G182; 4000 PSI

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

COMPLETE MIG KIT	PART# UPC#	KFR13 89520	KFR14 89521	KFR1413 89522	KFR14-6 89523	KFR14-8 89524	KFR14-10 89525
FLOWMETER	FR13	FR13	FR14	FR1413	FR14-6	FR14-8	FR14-10
GAS CALIBRATION	CO ₂	CO ₂	ARGON	ARGON/CO ₂	ARGON HELIUM	ARGON HELIUM	ARGON HELIUM
HOSE	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS

CEFG, RHFG & MRFG SERIES

FLOWGAUGE REGULATORS

- Machined brass body
- Mechanical stem type seat and porous metal inlet filter (except CO₂ models)
- Fine mesh filter screen between inlet and body (except CO₂ models)
- Pressure relief device for low pressure flowgauge protection only

CEFG Medium duty • 1½" gauges
Forged brass pressure adjusting screw with locking retaining ring • 1½" tri-layered neoprene diaphragm

RHFG Heavy duty single scale 2" gauges • Delrin bushing for smooth flow adjustment • 2" tri-layered neoprene diaphragm

MRFG14

MADE IN U.S.A.



MAXIMUM INLET
3000 PSIG

- MRFG13 and MRFG14**
- Easy-to-read 2" gauges
 - 1½" tri-layered neoprene diaphragm
 - Unique dampened seat assembly
 - Reseating pressure relief device for low pressure flowgauge protection

RHFG13-50**CEFG13**

SINGLE & TWO GAS CALIBRATION

PART# UPC#	CEFG13 12600	CEFG14 12603	RHFG13-50 11500	RHFG14-50 11501	MRFG13 12607	MRFG14 12608
CGA INLET	CO ₂ 320	ARGON & AR/CO ₂ MIX 580	CO ₂ 320	ARGON & AR/CO ₂ MIX 580	CO ₂ 320	ARGON & AR/CO ₂ MIX 580
OUTLET CONNECTION	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)
FLOW CAP. (SCFH)	10-40	10-40	10-50	10-55	10-40	10-55
OUTLET ORIFICE	.026	.026	.029	.032	.026	.032
REPLACEMENTS						
1½" GAUGES	G87; 10-40 SCFH G82; 4000 PSI	G51; 10-40 SCFH G82; 4000 PSI				
2" GAUGES			G86S; 10-50 SCFH G3S; 3000 PSI	G76S; 10-55 SCFH G7S; 4000 PSI	G86S-4*; 10-50 SCFH G7S-4*; 4000 PSI (* 1/8 NPT)	G76S-4*; 10-55 SCFH G7S-4*; 4000 PSI (* 1/8 NPT)

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

COMPLETE MIG KIT

PART# UPC#	KFG13 89530	KFG14 89531
FLOWMETER	CEFG13	CEFG14
GAS CALIBRATION	CO ₂	ARGON & AR/CO ₂ MIX
HOSE	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS	90190 10 ft. 3/16" ID HOSE with 5/8"-18 RH(M) FITTINGS AT BOTH ENDS

CEFG SERIES DIMENSIONS

Depth:	3"
Width:	6"
Height:	5¼"
Weight:	2 lbs.

RHFG SERIES DIMENSIONS

Depth:	5½"
Width:	5½"
Height:	7"
Weight:	4 lbs.

MRFG SERIES DIMENSIONS

Depth:	3¾"
Width:	7"
Height:	5⅝"
Weight:	2 lbs.



DUAL FLOWMETER FLOWGAUGE REGULATORS

SINGLE
STAGE

DEF & DEG SERIES

Designed for production and maintenance applications where stainless steel, aluminum pipe or closed vessels are TIG or MIG welded and where shielding gas and purging gas are simultaneously required.

These regulators are used in sequential welding operations requiring different settings for one or more operations without constantly resetting the flowmeter.

- Machined brass body
- Easy-to-read single scale gauge(s)
- Porous metal inlet filter
- Pressure relief device for low pressure flowgauge/flowmeter protection only



DEF14

DEF 14

DUAL FLOWMETER

- Polished chrome bonnet
- Flowmeters calibrated to 50 PSI inlet pressure at 70° F
- 15/8" tri-layered reinforced neoprene diaphragm
- Mechanical stem type seat

DEG 14

DUAL FLOWGAUGE

- Machined brass bonnet
- Calibrated to specific orifice
- Piston actuated



DEG14



MADE IN U.S.A.

TWO GAS CALIBRATION

PART# UPC#	DEF14 12550	DEG14 12650
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CGA INLET	ARGON/HELIUM 580	ARGON & AR/CO ₂ MIX 580
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OUTLET CONNECTION	5/8"-18 RH(F)	5/8"-18 RH(F)
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FLOW CAP. (SCFH)	10-70/25-205	10-40
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REPLACEMENTS

FLOWMETER TUBE COVER	UAF22	-
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TUBE	UAHF18-2	-
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2" GAUGE	G7S; 4000 PSI	-
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1 1/2" GAUGE		G51; 0-40 SCFH G82; 4000 PSI
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**MAXIMUM INLET
3000 PSIG**

DEF14 SERIES DIMENSIONS

Depth:	4 3/4"
Width:	7 3/4"
Height:	7"
Weight:	4 lbs.

DEG14 SERIES DIMENSIONS

Depth:	5"
Width:	6 1/2"
Height:	4 1/2"
Weight:	2 lbs.

NOTE: PSI/kPa, PSI/Kg, PSI/BAR Gauges available (Please Inquire)

SINGLE & TWO GAS CALIBRATION



UCF13

DIMENSIONS

Depth:	1 1/2"
Width:	2"
Height:	6"
Weight:	1 lb.



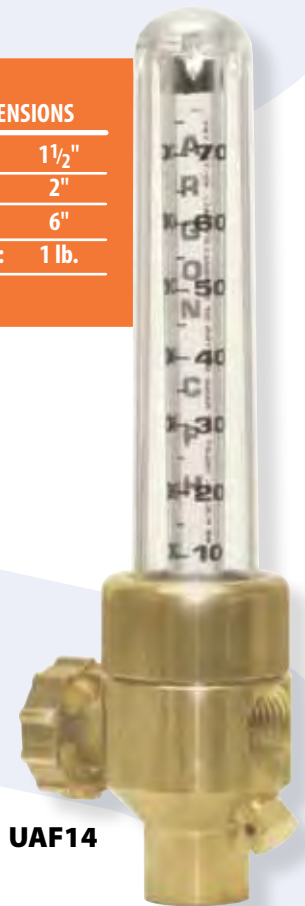
MADE IN U.S.A.

DIMENSIONS

Depth:	1 1/2"
Width:	2"
Height:	6"
Weight:	1 lb.

SINGLE GAS CALIBRATION

PART# UPC#	UCF13 14001	UAF14 14000	14014 14014
INLET CONNECTION	CO ₂ 1/4" NPT(F)	ARGON 1/4" NPT(F)	ARGON 1/4" NPT(F)
OUTLET CONNECTION	5/8"-18 RH(F)	5/8"-18 RH(F)	1/4" NPT(F)
FLOW CAPACITY SCFH	10-80	10-70	10-70



UAF14

TWO GAS CALIBRATION

PART# UPC#	UAF1413 14016	14017 14017	UAHF14-6 14002
INLET CONNECTION	ARGON/ CO ₂ 1/4" NPT(F)	ARGON/ CO ₂ 5/8"-18 RH(F)	ARGON/HELIUM 1/4" NPT(F)
OUTLET CONNECTION	5/8"-18 RH(F)	5/8"-18 RH(F)	5/8"-18 RH(F)
FLOW CAPACITY SCFH	10-80 10-70	10-80 10-70	2-18 5-50



CYLINDER TO REGULATOR ADAPTORS

PART# F10X
UPC# 43300

CGA580 to
CGA540



PART# F22X
UPC# 43303

CGA540 to
CGA580



PART# F24X
UPC# 43304

CGA510 "POL"
to CGA300 "CA"



*All adaptors
are shipped on a
display card*

PART# F25
UPC# 43305

CGA200 "MC" 90°
to CGA510 "POL"



PART# F28
UPC# 43306

CGA300 "CA"
to CGA510 "POL"



PART# F31
UPC# 43307

CGA520 "B" to
CGA200 "MC"



PART# F34
UPC# 43310

CGA200 "MC" 90°
to CGA520 "B"



PART# F32
UPC# 43308

CGA510 "POL"
to CGA520 "B"



PART# F33
UPC# 43309

CGA520 "B" 90°
to CGA510 "POL"



PART# F37
UPC# 43312

CGA510 "POL"
to CGA200 "MC"



PART# F35
UPC# 43311

CGA300 "CA" to
CGA520 "B"



PART# F36
UPC# 43319

CGA320 to
"CO₂" CGA580



PART# F38
UPC# 43313

CGA300 "CA" to
CGA200 "MC"



PART# F41
UPC# 43314

CGA200 "MC"
to CGA520 "B"



PART# F50
UPC# 43315

CGA520 "B" 90°
to CGA520 "B"



PART# F60
UPC# 43316

ALC CGA410
Fitting to
CGA510 "POL"



PART# F61X
UPC# 43317

CGA520 "B" to
CGA300 "CA"



REPLACEMENT GAUGES

Oxygen cleaned welding gauges (cleaned for oxy per A.N.S.I. B40.1) suitable for use with oxygen, other fuel gases and medical equipment (that is non corrosive to brass or bronze) and where stem mounting is desired. Quality brass and steel case construction with one piece polycarbonate lens. Recommended for use with compressed gas regulators. Most 1½" welding gauges are fitted with a protective rubber gauge boot.



G19D



G15

PSI
OnlyPSI/Kg
Add (-1)
to Part#PSI/kPa
Add (-2)
to Part#PSI/Bar
Add (-3)
to Part#

1½" GAUGES (1/8" NPT**)

2" GAUGES (1/4" NPT**)

2½" GAUGES (1/4" NPT**)

PRESSURE CALIBRATION	POWDER PAINTED STEEL CASE B.M.*	GOLD STEEL CASE B.M.*	GOLD STEEL CASE C.B.M.*	BRASS CASE B.M.*	BRASS CASE C.B.M.* WITH WEEP HOLE	GOLD STEEL CASE B.M.*	BRASS CASE B.M.*	GOLD STEEL CASE B.M.*
15 PSI (180° scale)	-	G20	-	-	-	-	-	-
30 PSI (Red Line 15-30)	G15 (RED)	G79	-	G2	-	G2S	G22	G22S
30 PSI	-	G80	-	G74	-	G74S	G75	G75S
60 PSI	-	G83	-	G5	G105	G5S	G25	G25S
100 PSI	G49 (GREEN)	G85	G185	G6	G106	G6S	G26	G26S
200 PSI	-	G78	G178	G4	G104	G4S	G24	G24S
300 PSI	-	G84	G184	G33	-	G33S	-	-
400 PSI	-	G73	-	G1	G101	G1S	G21	G21S
1/4, 1/2, 3/4 CONTENTS	G19 (RED)	-	-	-	-	-	-	-
600 PSI	-	-	-	G8	G108	G8S	G28	G28S
1000 PSI	-	-	-	G34	-	G34S	-	-
4000 PSI, (U) LISTED	G56 (GREEN)	G82	G182	G7	-	G7S	G27	G27S
6000 PSI, (U) LISTED	-	-	-	G44	-	G44S	G46	G46S

*B.M. = Bottom Mount - C.B.M. = Center Back Mount. ** For 1/8" NPT add (-4) to Part Number. For display cards add (-D) to Part Number

	PART#	1½" DESCRIPTION	PART#	2" DESCRIPTION	PART#	2½" DESCRIPTION
DISPLAY CARD	PL15	POSI-LOCK	PL2	POSI-LOCK	PL25	POSI-LOCK
BULK	05-1-52	FLAT PLASTIC	05-2-52-4	FLAT PLASTIC	05-3-52-8	POSI-LOCK
	05-1-52-7	POSI-LOCK	05-2-52-7	POSI-LOCK		
	05-1-63	FRICTION RING	05-2-63-2	FRICTION RING		



REPLACEMENT GAUGES

FLOWGAUGES & MEDICAL GAUGES

WELDING
ACCESSORIES



G51



G77



G55



G62



G63

1 1/2" FLOWGAUGES (1/8" NPT) GOLD STEEL CASE

G51 10-40 SCFH, Argon, AR/CO₂ Mix (75%-25%)
Calibrated for 71 Dr./0.026" Orifice (60 PSI Max.)

G87 10-40 SCFH, CO₂ Calibrated for 71 Dr./0.026"
Orifice (60 PSI Max.)

2" FLOWGAUGES (1/4" NPT) BRASS OR GOLD STEEL CASE

G76 10-55 SCFH, Argon, AR/CO₂ Mix (75%-25%)
Calibrated for 67 Dr./0.032" Orifice (60 PSI Max.)
G76S Same as above [Gold Steel Case]

G77 20-100 SCFH, CO₂ Calibrated for
67 Dr./0.032" Orifice (100 PSI Max.)
G77S Same as above [Gold Steel Case]

G86 10-50 SCFH, CO₂ Calibrated for
69 Dr./0.029" Orifice (60 PSI Max.)
G86S Same as above [Gold Steel Case]

1 1/2" MEDICAL GAUGES (1/8" NPT) CHROME PLATED CASE

G55 15 LPM, Plated Socket, Oxy Calibrated for
73 Dr./0.024" Orifice (60 PSI Max.)

G54 4000 PSI, Plated Socket, Bottom Mount

G154 4000 PSI, Brass Socket, Center Back Mount

2" MEDICAL GAUGES (1/4" NPT) CHROME PLATED CASE

G62 15 LPM Plated Socket, Oxy Calibrated for
77 Dr./0.018" Orifice (120 PSI Max.)

G63 4000 PSI, Plated Socket, Bottom Mount

(Medical Gauge Dials-green background with white numbers and letters)

High Pressure CO₂ gauge
with red zone for gas order alert.
Use CO₂ or other compressed gases.
Available with side mount or bottom
mount; right or left hand threads.
NOT for OXYGEN service.



GS243

**UL LISTED
442M**

2" HIGH PRESSURE CO₂ GAUGES, BLACK STEEL CASE

GS241 Bottom Mount (RHT) 3000 PSI
GS242 Bottom Mount (LHT) 3000 PSI
GS243 Side Mount (RHT) 3000 PSI
GS244 Side Mount (LHT) 3000 PSI



GS241

CYLINDER/TANKS
OXYGEN/ACETYLENE/NITROGEN

"N20", "N40", "N60", "R40" AND "R"

CYLINDERS MEET SPECIFICATION DOT3AA2015

"B" AND "MC" CYLINDERS MEET SPECIFICATION: DOTS

DISPOSABLE PROPANE AND MAP//Pro™ CYLINDERS

*CASES OF 12 ONLY ARE SHIPPED FULL AND MEET
DOT 39NRC SPECIFICATIONSN60
SHIPPED WITH
CYLINDER CAP

GAS SERVICE	PART#	UPC#	APPROX. CAPACITY Cu. Ft.	O.D. INCHES	HEIGHT W/VALVE	WEIGHT LBS.	CGA CONNECTION
ACETYLENE	MC	40032	10	4	15	8	200
	B	40033	40	6	23.35	25.5	520
OXYGEN	R	40034	20	5.25	18.5	12.7	540
	R40	40035	40	7	22.5	32	540
NITROGEN	N20	40036	20	5.25	18.5	12.7	580
	N40	40037	40	7	22.5	32	580
	N60	40041	60	7	27	39	580
LIQUID CAPACITY							
MAP//Pro™	MDC*	40030	14.1 oz.	3	11	2	600
PROPANE	PDC*	40031	14.1 oz.	3	11	1.75	600
	5P	40067	5 lb.	9.25	11.750	11.91	510

*All tanks are shipped empty. MAP//Pro™ is a trademark of Worthington Industries.

TANK TEST GAUGE
OXYGEN/ACETYLENE/NITROGEN

Protect yourself against shortages by checking the cylinder contents.

Reading of contents:

- Oxygen pressure 1800-2200 psi
- Acetylene pressure 1/4, 1/2, 3/4 or FULL
- Nitrogen pressure 1800-2200 psi



TGCMC



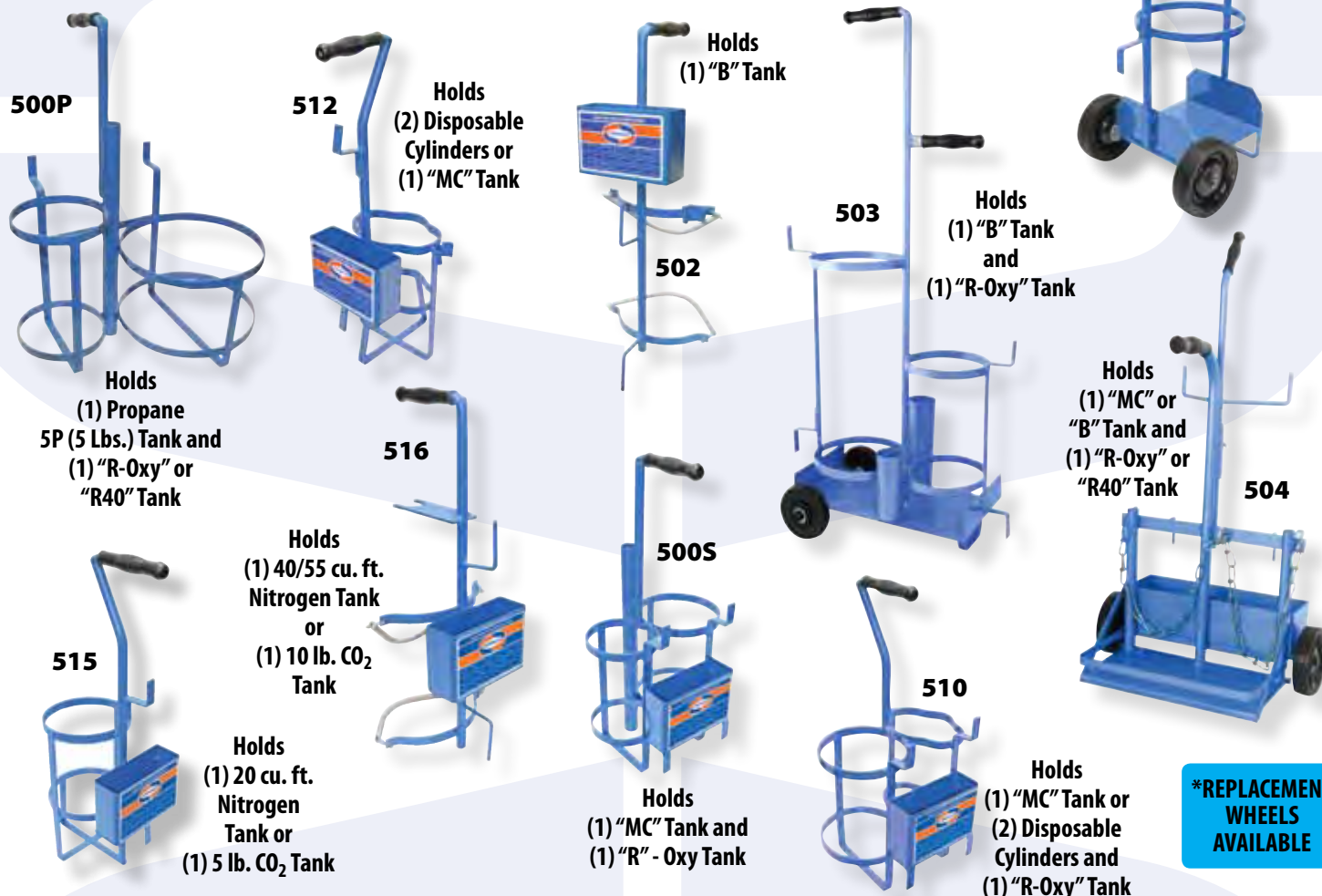
PART#	UPC#	DESCRIPTION
TGCB	41250	"B" Tank Test Gauge
TGCMC	41251	"MC" Tank Test Gauge
TGCN	41252	Nitrogen Tank Test Gauge
TGCO	41253	Oxygen Tank Test Gauge



CARRYING STANDS FOR "R", "R40", "MC", "B", "N60", "N40", "N20"

WELDING
ACCESSORIES

The rugged UniWeld line of cylinder trucks and carrying stands offers convenience, portability and organization. All blue enameled steel models feature fitted handle grips and hose holders. The blue plastic tote has ample room for cylinders, hose and accessories.



***REPLACEMENT
WHEELS
AVAILABLE**

CARRYING STANDS & CYLINDER TRUCKS

	PART#	UPC#	DESCRIPTION
Metal	500S	30001	Carrying stand for (1) "MC" tank & (1) "R-Oxy" tank w/utility tray & brazing rod holder
	502	30003	Carrying stand for (1) "B" tank w/utility tray & Air/Fuel handle holder
	503	30004	Cylinder truck for (1) "B" tank & (1) "R-Oxy" tank (w/wheels)*
	504	30005	Cylinder truck for (1) "MC" or "B" tank & (1) "R-Oxy" or "R40" tank (w/wheels)*
	510	30007	Carrying stand for (1) "MC" tank or (2) disposable fuel cylinders and (1) "R-Oxy" tank w/utility tray
Plastic	511	30008	Molded blue plastic carrying stand for (1) "MC" tank or (1) disposable fuel cylinder and (1) "R-Oxy" tank
Metal	512	30009	Carrying stand for (2) disposable fuel cylinders or (1) "MC" w/utility tray and Air/Fuel handle holder
	515	30012	Nitrogen/CO ₂ carrying stand for (1) 20 cu. ft. Nitrogen tank or (1) 5 lb CO ₂ tank
	516	30013	Nitrogen/CO ₂ carrying stand for (1) 40/55 cu. ft. Nitrogen tank or (1) 10 lb CO ₂ tank
	517	30014	Nitrogen Truck for (1) 55 cu. ft. tank (w/wheels)*
	500P	30020	Carrying stand for (1) "5P" Propane (5 lbs.) tank & (1) "R-Oxy" tank



511

CGA CYLINDER VALVE CONNECTIONS

TOR

GAS

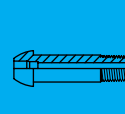
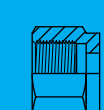
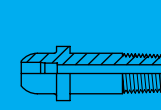
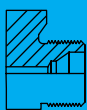
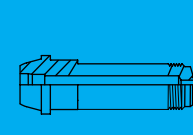
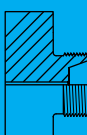
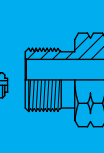
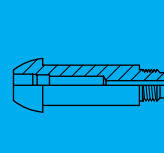
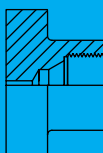
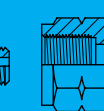
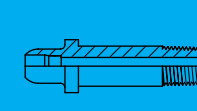
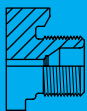
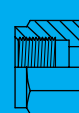
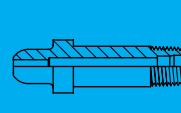
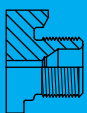
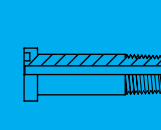
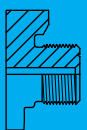
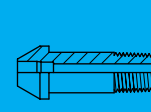
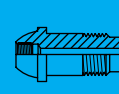
CONNECTIONS

CYLINDER TO REGULA-

VALVE

NIPPLE

NUT



"MC"

PART#	Description	ACETYLENE	CGA200
MC24	Nut		.625" - 20 NGO-R.H.
MC52	Nipple		7/16" - 20 UNF, 1 1/8" Long (R)

Used on: RMC Regulators Approx. 10 cu. ft. cylinders only

"CA"

PART#	Description	ACETYLENE	CGA300
8159-4	Nut		.830" - 14 NGO-R.H.
11A05	Nipple		7/16" - 20 UNF, 1 5/16" Long (R)
8112-3	Nipple		1/4" - 18 NPT, 1 5/16" Long (RUH)

Used on: R, RUH, RHG, RHT, RVT, MR Regulators

PART#	Description	CARBON DIOXIDE	CGA320
8159-3	Nut		.830" - 14 NGO-R.H.
8312	Nipple		1/4" - 18 NPT, 2" Long
X09R	O-Ring		(Do not use with Gasket)

Used on: CEF, RUH, RHF, RHT, RV, RVT, RHFG, R1300 (CO₂) Regulators
Use "O-Ring X09R only for 8312 Nipple, Not Gasket

PART#	Description	AIR	CGA346
8959	Nut		.830" - 14 NGO-R.H.
1805	Nipple		1/4" - 18 NPT, 2 1/2" Long

Used on: RV, RVT, RHT, RUH, RHP, R1800 Regulators

PART#	Description	HYDROGEN	CGA350
8859	Nut		.830" - 14 NGO-L.H.
8812-2	Nipple		1/4" - 18 NPT, 2" Long

Used on: RUH, RV, RVT, RHT Regulators

"POL"

PART#	Description	ACETYLENE AND FUEL GAS	CGA510
8159-2	Nut		.880" - 14 NGO-L.H.
1205	Nipple		7/16" - 20 UNF 25/32" Long (R)
1205-2	Nipple		1/4" - 18 NPT, 2 13/32" Long (MR)
8112-2	Nipple		1/4" - 18 NPT, 3 3/16" Long (RV, RUH)

Used on: R, RUH, RHT, RHG, RV, RVT, MR Regulators
CGA410 (ALC) (Canada only) on request

"B"

PART#	Description	ACETYLENE	CGA520
B10	Nut		.899" - 18 NGO-R.H.
B51	Nipple		7/16" - 20 UNF 1 15/64" Long (R)
RU12-2	Nipple		1/4" - 18 NPT, 2 3/8" Long (MR, RUH)

Used on: RB, RUH, MR, R Regulators; Cylinder 35-75 cu. ft. only

PART#	Description	OXYGEN ONLY	CGA540
8059-2	Nut		.908" - 14 NGO-R.H.
1005-3*	Nipple		7/16" - 20 UNF 1 19/32" Long (R)
8012-2	Nipple		1/4" - 18 NPT, 2" Long (RV)
RU12	Nipple		1/4" - 18 NPT, 2 9/16" Long (RUH)

Used on: MR, R, RHG, RHT, RV, RVT, RUH Regulators; For Oxygen Service Only

*1005 1/4" - 18NPT(R)

PART#	UPC#	ARGON HELIUM NITROGEN	CGA580
8759	Nut		.960" - 14 NGO-R.H.
1205	Nipple		7/16" - 20 UNF 2 3/16" Long (R)
1205-2	Nipple		1/4" - 18 NPT, 2 13/32" Long (CEF)
8112-2	Nipple		1/4" - 18 NPT, 3 3/16" Long (RHF, RHFG)

Used on: RUH, RV, RVT, RHF, CEF, RHT, RHFG, R1500 (Ni), RAR, R15NI Regulators
Alternative Connections: CGA590 (LH), CGA555 (LH) on Request

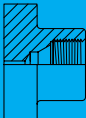
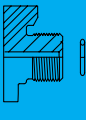
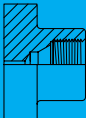
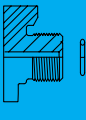
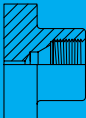
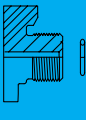
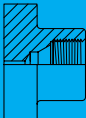
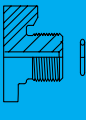
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CGA VALVE CONNECTIONS

WELDING
ACCESSORIES

B.S. 341 CYLINDER VALVE CONNECTIONS

GAS			CONNECTIONS		CYLINDER TO REGULATOR		
CONN. No. 2 and No. 4	Part#	Description	ACETYLENE HYDROGEN PROPANE		VALVE	NIPPLE	NUT
	BSP59	Nut		G 5/8 A-BSP-L.H.			
	BSP12	Nipple		1/4"-18 NPT, 2 3/4" Long			
	BSP12-2	Nipple		1/4"-18 NPT, 3 1/4" Long			
CONN. No. 3	Part#	Description	AIR, ARGON HELIUM NITROGEN OXYGEN				
	BSP59-2	Nut		G 5/8 A-BSP-R.H.			
	BSP12	Nipple		1/4"-18 NPT, 2 3/4" Long			
	BSP12-2	Nipple		1/4"-18 NPT, 3 1/4" Long			
CONN. No. 8	Part#	Description	CARBON DIOXIDE				
	E1359	Nut		0.860"-14 T.P.I. WHITWORTH-R.H.			
	E1305	Nipple		1/4"-18 NPT, 2 1/2" Long			
	199X500	Gasket					



USP8E



USP8S

PLAY IT SAFE IN YOUR GAS WELDING AND CUTTING WORK AREAS AND PUT UP A UNI WELD SAFETY POSTER. The large (22" x 34") posters are available in four languages: English, Spanish, French and Arabic. It's a good idea to review the 10 points with your crew on a regular basis, whether they're experienced or novices. English and Spanish versions are also available in a smaller hand-out size (8.5" x 11").



USP8F



USPA

SAFETY POSTERS

Part#	Description
USP8E	Play-it-Safe Poster, (English)
USP8S	Play-it-Safe Poster, (Spanish)
USP8F	Play-it-Safe Poster, (French)
USPA	Play-it-Safe Poster, (Arabic)

HOSE REPAIR KITS

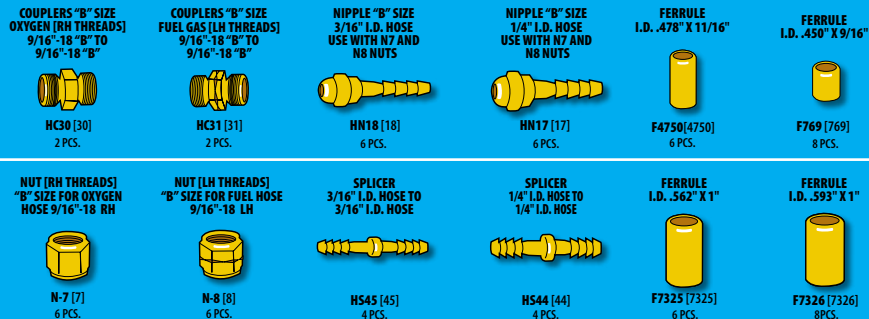
- Quick and easy on-the-spot hose refitting and repair
- Splice damaged hoses with splicers and ferrules
- Repair hoses with nipple fittings and nuts
- 3 complete kits to choose from
- "A" and "B" size hose fittings
- Couplers, nipples, nuts, splicers and ferrules for 1/4" and 3/16" I.D. hose
- Compartmented plastic box
- Heavy duty crimper

**CRIMPER
PART# CT-V**

**PART# HRK-24
UPC# 43380**

"B" SIZE HOSE FITTINGS
FOR 1/4" AND 3/16" I.D. HOSE

KIT INCLUDES:
COUPLERS, NIPPLES, NUTS,
SPLICERS, FERRULES AND
HEAVY DUTY CRIMPER

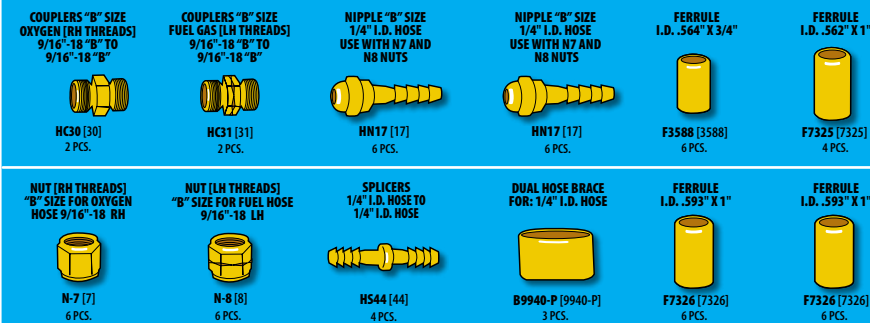


INDIVIDUAL FITTINGS AVAILABLE BULK PACKED [See Welding price list or contact customer service]

**PART# HRK-26
UPC# 43381**

"B" SIZE HOSE FITTINGS
FOR 1/4" I.D. HOSE

KIT INCLUDES:
COUPLERS, NIPPLES, NUTS,
SPLICERS, FERRULES AND
HEAVY DUTY CRIMPER

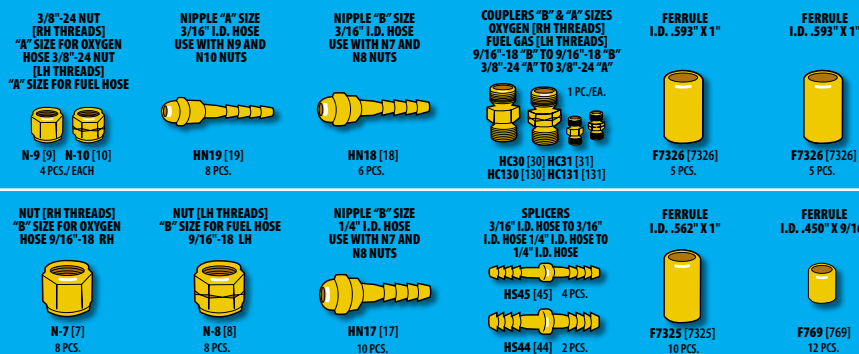


EXTRA CRIMPERS [CT-V] AVAILABLE IN A 5 PACK

**PART# HRK-5
UPC# 43382**

"A" & "B" SIZE HOSE
FOR 1/4" AND 3/16" I.D.
HOSE KIT INCLUDES:

COUPLERS, NIPPLES, NUTS,
SPLICERS, FERRULES AND
HEAVY DUTY CRIMPER



HOSEDOCK®

[PART# HD1] Easily fix damaged hoses in minutes. Easy to mount
on counter, wall or truck. It's like having an extra pair of hands when
you need them the most. *Mounting hardware included.*





HOSES HOSE FITTINGS

WELDING
ACCESSORIES

HOSES: SINGLE/TWIN

Make the right connection with Uniweld's 3/16" and 1/4" hoses

Color coded twin hose sets:
Green/Oxygen; Red/Fuel.

"A", "B", and "AB" hose fittings

Twin hose available by the reel and special lengths. [Contact customer service]

HOSE SPRINGS [Part# SHLP] may be added to acetylene or LP single gas hoses by adding an (S) for spring and (SS) for two springs (one at each end) to hose Part#. Examples: H12S, H12SS/HLP14BS, HLP14BSS



OXY LP GAS 3/16" GRADE "T" TWIN HOSES

H32AT 43560	H32BT 43561	H32ABT 43562
12.5'	12.5'	12.5'
"A"	"B"	"AB"

OXY LP GAS 1/4" GRADE "T" TWIN HOSES

HT41B 43529	HT43B 43523	HT44B 43524	HT100B 43528
20'	25'	50'	100'
"B"	"B"	"B"	"B"

OXYACETYLENE 3/16" TWIN HOSES [GRADE R]

PART# UPC#	H32A 43510	H32B 43512	H32AB 43511	H31B 43509	H33A 43513	H33B 43515	H33AB 43514	H34A 43516	H34B 53517
HOSE LENGTH	12 1/2'	12 1/2'	12 1/2'	20'	25'	25'	25'	50'	50'
CONNECTION	"A"	"B"	"AB"	"B"	"A"	"B"	"AB"	"A"	"B"

1/4" TWIN HOSES [GRADE R]

PART# UPC#	H43B 43520	H44B 43521	H100B 43522
HOSE LENGTH	25'	50'	100'
CONNECTION	"B"	"B"	"B"

SINGLE 3/16" SINGLE ACETYLENE HOSES [GRADE R]

PART# UPC#	H11 43500	H11B 43501	H12 43502	H12B 43503	H13 43504	H13B 43505
HOSE LENGTH	6'	6'	12 1/2'	12 1/2'	25'	25'
CONNECTION	"A"	"B"	"A"	"B"	"A"	"B"

3/16" LP GAS SINGLE HOSES

PART# UPC#	HLP10 43530	HLP10B 43531	HLP11 43533	HLP11B 43534	HLP13 43537	HLP13B 43538	HLP14 43541	HLP14B 43542
HOSE LENGTH	3'	3'	6'	6'	25'	25'	12 1/2'	12 1/2'
CONNECTION	"A"	"B"	"A"	"B"	"A"	"B"	"A"	"B"

HOSE FITTINGS

HOSE NIPPLE

PART#	UPC#	Hose Nut to Nipple Size
HN83P	43370	3/16" "A"
HN87	43371	3/16" "B"
HN84	43372	1/4" "B"

HOSE NUT

PART#	UPC#	Hose Nut to Nipple Size
HN82A	43348	"A" RH 3/16"
HN83A	43349	"A" LH 3/16"
9059	43350	"B" RH 1/4" or 3/16"
9059-2	43351	"B" LH 1/4" or 3/16"

HOSE SPLICER (Push Type)

PART#	UPC#	Hose to Hose
H553	43373	1/4" to 1/4"
H554	43374	3/16" to 1/4"
H555	43375	3/16" to 3/16"

BRASS HOSE CLAMPS

PART#	UPC#	Hose I.D.
HC01	43376	3/16"
HC02	43377	1/4"

"A" to "B"

WELDING HANDLE ADAPTOR

PART#	UPC#	Handle to Hose
F29L	43322	"A" Conn LH "B" Hose Nut LH
F29R	43324	"A" Conn RH "B" Hose Nut RH

"A" to "B"

OUTLET ADAPTOR

PART#	UPC#	Regulator To Hose
F27L	43320	"A" Conn LH "B" Hose Nut LH
F27R	43321	"A" Conn RH "B" Hose Nut RH

"A" SIZE "Y" OUTLET ADAPTOR

PART#	UPC#	Inlet to Outlet
FY11XA	43332	"A" LH "A" Hose Nut LH
FY10XA	43331	"A" RH "A" Hose Nut RH

"Y" CONNECTORS W/VALVES

PART#	UPC#	Inlet to Outlet
FY10XAV	43334	"A" RH "A" Hose Nut RH
FY11XAV	43335	"A" LH "A" Hose Nut LH
FY10XV	43336	"B" RH "B" Hose Nut RH
FY11XV	43337	"B" LH "B" Hose Nut LH

"B" SIZE "Y" CONNECTORS

PART#	UPC#	Inlet to Outlet
FY11X	43330	"B" LH "B" Hose Nut LH
FY10X	43329	"B" RH "B" Hose Nut RH

HOSE COUPLING

PART#	UPC#	Hose Nut to Hose Nut
HCC40	43342	"A" LH "A" LH
HCC46	43343	"A" LH "B" LH
HCC41	43344	"A" RH "A" RH
HCC79	43345	"B" RH "B" LH
HCC47	43346	"A" RH "B" RH
HCC78	43347	"B" RH "B" RH

"A" to "B"

OUTLET ADAPTOR

PART#	UPC#	Regulator To Hose
F58L	43325	"A" Conn LH "B" Hose Nut LH
F58R	43326	"A" Conn RH "B" Hose Nut RH

"B" to "A"

OUTLET ADAPTOR

PART#	UPC#	Regulator To Hose
F59L	43327	"B" Conn LH "A" Hose Nut LH
F59R	43328	"B" Conn RH "A" Hose Nut RH

Additional hose fittings available.
[See hose repair kits, page 104].

FLASHBACK
ARRESTORSColor
coded
for Fuel;
Oxygen

RFAB

UL LISTED



TFABNF



TFAA

A flashback is a momentary or sustained retrogression of the flame upstream of the mixer usually in the torch or hoses. This is a potentially hazardous situation, particularly if the flame reaches the hoses, where an explosion may result causing a rupture or separation of the hose. A flashback (flame) arrestor is a device that helps prevent the propagation of a flame upstream. Note that this device reduces the volume of gases available at the tip/nozzle. Series RFA & TFA arrestors have inlet filters to prevent dust, dirt and other contaminants larger than 100 microns from entering the system, thus providing longer unit service. Series TFANF and RFANF arrestors do not have filters, but will still extinguish flashbacks while providing initial cost savings.

FILTERED

NON-FILTERED

PART# UPC# TORCH SINGLE	TFA100 04056 OXYGEN 9/16"-18 "B"*	TFA101 04057 FUEL 9/16"-18 "B"*	TFAM100 04061 OXYGEN 3/8"-24 "A"	TFAM101 04062 FUEL 3/8"-24 "A"	TFA100NF 04075 OXYGEN 9/16"-18 "B"	TFA101NF 04076 FUEL 9/16"-18 "B"
PART# UPC# REGULATOR SINGLE	RFA100 10206 OXYGEN 9/16"-18 "B"*	RFA101 10207 FUEL 9/16"-18 "B"*	RFAM100 10211 OXYGEN 3/8"-24 "A"	RFAM101 10212 FUEL 3/8"-24 "A"	RFA100NF 10217 OXYGEN 9/16"-18 "B"	RFA101NF 10218 OXYGEN 9/16"-18 "B"
PART# UPC# TORCH SET OF 2	TFAB 04055 (1) OXYGEN (1) FUEL 9/16"-18 "B"*	TFAA 04060 (1) OXYGEN (1) FUEL 3/8"-24 "A"			TFABNF 04077 (1) OXYGEN (1) FUEL 9/16"-18 "B"	
PART# UPC# REGULATOR SET OF 2	RFAB 10205 (1) OXYGEN (1) FUEL 9/16"-18 "B"*	RFAA 10210 (1) OXYGEN (1) FUEL 3/8"-24 "A"			RFABNF 10219 (1) OXYGEN (1) FUEL 9/16"-18 "B"	

CHECK
VALVESColor
coded
for Fuel;
Oxygen

TCVB

Conforms to OSHA
safety standards
Easy to install, test
and service

Check valves provide added protection against reverse flow of gases, but not flashback. They should be tested for leakage and flow regularly. Check valves on regulators give the best service life. ** For "A" outlet regulators, use adaptor F58R or F58L [See pg. 97] to connect to "B" size regulator check valves on small portable outfits.

PART# UPC# TORCH SINGLE	TCV100 04051 OXYGEN 9/16"-18 "B"*	TCV101 04052 FUEL 9/16"-18 "B"*	TCV10 02651 OXYGEN 3/8"-24 "A"	TCV11 02652 FUEL 3/8"-24 "A"
PART# UPC# REGULATOR SINGLE	RCV100 10201 OXYGEN 9/16"-18 "B"*	RCV101 10202 FUEL 9/16"-18 "B"*		
PART# UPC# TORCH SET OF 2	TCVB 04050 (1) OXYGEN (1) FUEL 9/16"-18 "B"*	TCVA 02650 (1) OXYGEN (1) FUEL 3/8"-24 "A"		
PART# UPC# REGULATOR SET OF 2	RCVB 10200 (1) OXYGEN (1) FUEL 9/16"-18 "B"*			

UL LISTED





ACCESSORIES

WELDING
ACCESSORIES

FLINT LIGHTERS AND RENEWALS

Light your torch safely...eliminate the dangerous use of matches and butane lighters

PART# UPC#	*FL34 43404 SINGLE FLINT LIGHTER	FL35 43406 TRIPLE FLINT LIGHTER
PART# UPC#	FL37 43405 ONE 5 FLINT RENEWAL	FL36 43407 ONE 3 FLINT RENEWAL UNIT
PART# UPC#	FL3437 43403 SINGLE LIGHTER ONE 5 FLINT RENEWAL	FL3536 43425 TRIPLE LIGHTER ONE 3 FLINT RENEWAL
PART# UPC#	FL3437TC 43404 SINGLE LIGHTER ONE 5 FLINT RENEWAL WITH TCS TIP CLEANER	FL3536TC 43406 TRIPLE FLINT ONE 5 FLINT RENEWAL WITH TCS TIP CLEANER

*Sold in Units of 10



FL3437TC



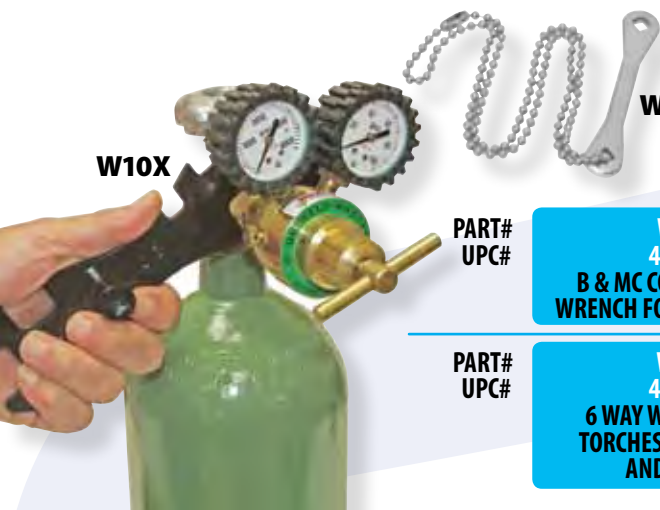
FL35



FL37



FL36



W10X



W05

WRENCHES FOR HOSE & CYLINDER CONNECTIONS

PART# UPC#	W94 43410 B & MC COMBINATION WRENCH FOR "A" FITTINGS	W05 43408 B & MC TANK BOX WRENCH
PART# UPC#	W06 43409 6 WAY WRENCH FOR TORCHES, CYLINDERS AND HOSES	W10X 43411 10 WAY COMBO WRENCH FOR TORCHES, CYLINDERS AND HOSES



W94



W06



W10X

GOGGLES & GLOVES

SHADE # 5

LEATHER



WG53

PART# UPC#	WG53 43402 SAFETY GOGGLES WITH FLIP UP TYPE SHADE#5 LENSES
PART# UPC#	GL2 43436 ALL LEATHER WELDING GLOVES



GL2

SOAPSTONE FLAT AND ROUND

FLAT
ROUND

PART# UPC#	SSRDK 43415 6 PIECE KIT INCL. HOLDER	SSRD 43417 REPLACEMENTS (CTN. 1 GROSS)
PART# UPC#	SSFLATK 43416 6 PIECE KIT INCL. HOLDER	SSFLAT 43418 REPLACEMENTS (CTN. 1 GROSS)

SSRD - 5" L x 1/4" O.D.
SSFLAT - 5" L x 1/2" W x 1/4" Thick

**FREE
PERSONALIZED****NAME AND ADDRESS
PRINTED ON CASE COVER
WITH AN ORDER OF 144
TIP SAVERS OR MORE
MAX: (2 LINES, UP TO
30 LETTERS PER LINE)****• YOUR COMPANY
LOGO CAN BE
PRINTED ON THE
CASE COVER.
CALL FOR QUOTE!****TIP SAVERS®**

- Hinged aluminum case
- cleaning data stamped on back of case
- Rustproof, stainless steel wire
- Spiral is roll-formed to last longer
- Exclusive LOCK-IN-KNOT on small wires
- Long spiral cleans larger number of tip styles
- Tapered pilot ends will not damage tip orifice
- Stainless steel file included in each case



MADE IN U.S.A.



TCJ

TCL

TCM

TCS

**X-TRA LONG
TIP SAVER**

TCP

**BLADE
TIP
SAVER****STANDARD
TIP SAVER**

No.TCS

NO.	DRILL
1	75-74
2	73-72-71
3	70-69-68
4	67-66-65
5	64-63-62
6	61-60
7	59-58
8	57
9	56
10	55-54
11	53-52
12	51-50-49

Standard Set;
12 Savers
(Box of 12)

No.TCL

NO.	DRILL
1	75-74
2	73-72-71
3	70-69-68
4	67-66-65
5	64-63-62
6	61-60
7	59-58
8	57
9	56
10	55-54
11	53-52
12	51-50-49

X-Tra Long Set;
12 Extra Long Savers
(Box of 12)

No.TCJ

NO.	DRILL
13	48-47
14	46-45
15	44-43
16	42-41
17	40-39-38
18	37-36
19	35-34-33
20	32-31
21	30

Jumbo Set;
9 Savers
(Box of 12)

No.TCP

NO.	DRILL
1	BLADE
2	BLADE
3	BLADE
4	67-66-65
5	64-63-62
6	61-60
7	59-58
8	57
9	56
10	55-54
11	53-52
12	51-50-49

Propane Set;
9 Savers, 3 Blades
(Box of 12)

No.TCM

NO.	DRILL
1	75-74
2	73-72-71
3	70-69-68
4	67-66-65
5	64-63-62
6	61-60
7	59-58
8	57
9	56
10	55-54
11	53-52
12	51-50-49
13	48-47
14	46-45
15	44-43
16	42-41
17	40-39-38
18	37-36
19	35-34-33
20	32-31
21	30

Master Set;
21 Savers
(Box of 12)



TORCH KIT SCORCHER®

SPECIAL
PURPOSE
KIT

SCORCHER® PROANE GAS TORCH KIT

A 500,000 BTU Propane Gas Flame Tool for use on farms and ranches; at home and business; in construction, maintenance and factories; on railways; in parks and on highways.

- Easy to operate and maintain
- Hooks up to a standard 20 lb. Bar-B-Que grill type propane tank
- P.O.L. safety valve prevents excess flow of L.P. gas if hose is cut or melted

HUNDREDS OF PRACTICAL USES, YEAR ROUND

- Weed burning
- Asphalt repair, tar sealing
- Ice melting and snow removal
- Paint, grease, oil removal
- Preheating metal castings, pipes
- Brush and debris burning
- Fire ant mounds
- Roofing repair

BRASS CONTROL KNOB
WILL NOT FREEZE UP

ALL STEEL
TORCH HANDLE

10' HOSE
WITH P.O.L.
SAFETY VALVE



PART# WB500
UPC# 00700

9/16"-18 LH
BRASS FITTING

FLINT LIGHTER
FOR SAFE,
PROPER
IGNITION
(included)

ALL STEEL
TORCH HEAD

INSTRUCTION
SHEET



WEED
BURNING

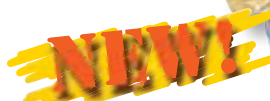
ASPHALT
REPAIR

ICE
MELTING

JEWELER'S PINPOINT FLAME TOOL
BASIC KITS

Uniweld Products, Inc. has taken the proven, reliable design technology of its quality engineered oxy-fuel gas welding torches and compressed it into a lightweight, precision jeweler's instrument. The Artorch®, made in the U.S.A. by Uniweld, is a true professional mini-flame instrument that handles easily and welds, brazes and solders most metals.

The oxy-fuel Artorch® operates efficiently with most fuel gases, including: MAP/Pro™, Acetylene, Propane, Propylene, Hydrogen and Natural Gas.

JEWELRY
DESIGN AND
REPAIR

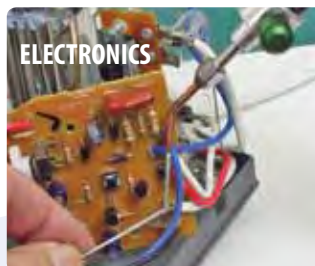
- JEWELERS
- ARTISTS
- OPTICIANS
- DENTISTS
- ELECTRONIC TECHNICIANS
- LIGHT DUTY REPAIRS

ART1015P

ART100-6B



ART1001B

PRECISION
OPTICAL REPAIR

ELECTRONICS

METAL
CRAFTS AND
SCULPTURES

PART# UPC#	ART100 00330	ART100-6B 00331	ART100-6A 00337	ART100-12B 00334	ART1007A 82806	ART1001B 82800	ART1012 82808
DESCRIPTION	ARTORCH®	ARTORCH® BASIC KIT	ARTORCH® BASIC KIT	ARTORCH® BASIC KIT	ARTORCH® BASIC KIT	ARTORCH® OXYACETYLENE KIT	ARTORCH® OXYACETYLENE KIT
HOSE [FITTINGS]	NO HOSE	ARTH6B 6' TWIN HOSE ["B"]	ARTH6A 6' TWIN HOSE ["A"]	ARTH12B 12' TWIN HOSE ["B"]	ARTH6B 6' TWIN HOSE ["B"]	ARTH6B 6' TWIN HOSE ["B"]	ARTH6B 6' TWIN HOSE ["B"]
CURVED TIP(S)	(optional)	(optional)	(optional)	(optional)	#4	#2, #3, #4 #5, #6	#2, #3, #4 #5, #6
PACKAGE WITH INSTRUCTIONS	DISPLAY CARD	DISPLAY CARD	DISPLAY CARD	DISPLAY CARD	DISPLAY CARD	DISPLAY BOX	DISPLAY CARD

PART# UPC#	ART1020 82812	ART1001LP 82801	ART1020LP 82813
DESCRIPTION	ARTORCH® OXYACET. KIT	ARTORCH® PROPANE KIT	ARTORCH® PROPANE KIT
HOSE [FITTINGS]	ARTH6A 12' TWIN HOSE ["A"]	ARTH6B 6' TWIN HOSE ["B"]	ARTH12B 12' TWIN HOSE ["B"]
CURVED TIP(S)	#2, #3, #4 #5, #6	#3, #4, #5 #6, #7	#3, #4, #5 #6, #7
PACKAGE WITH INSTRUCTIONS	DISPLAY CARD	DISPLAY CARD	DISPLAY CARD

PART# UPC#	ART1014 82810	ART1015P 82811
DESCRIPTION	ARTORCH® PROPANE KIT w/RP3B & RPO3B REGULATORS ARTH12B 12' TWIN HOSE ["B"] #4 CURVED TIP 511 PLASTIC CARRYING STAND	ARTORCH® PROPANE OUTFIT w/RLPB & ROB REGULATORS ARTH12B 12' TWIN HOSE ["B"] #3, #4, #5, #6, #7 R & 5P CYLINDERS* 500P CARRYING STAND RCV100/RCV101 CHECK VALVES

*CYLINDERS SHIPPED EMPTY



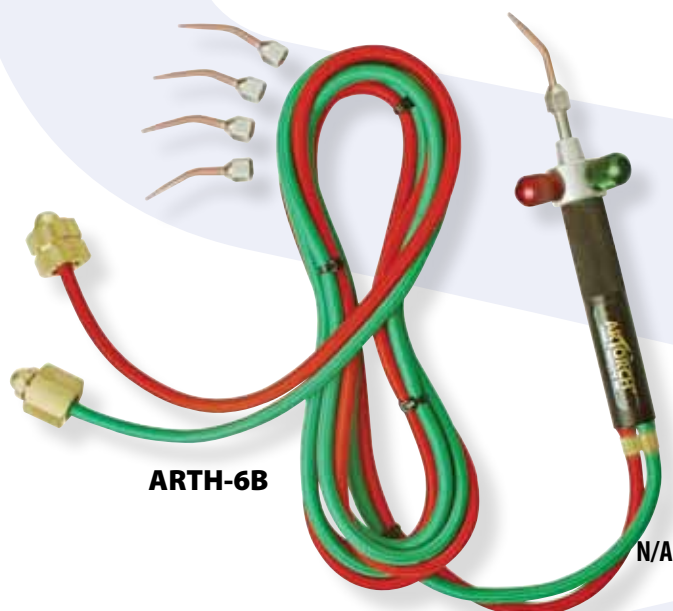
JEWELER'S PINPOINT FLAME TOOL

OUTFITS/TOTE

The Uniweld Artorch® is available as a kit that includes the Artorch® handle and 6' twin hose; Oxygen and Fuel regulators; curved tips on a display board.

The Uniweld Artorch® tote outfits include: the Artorch handle and 6' twin hose; curved tips; Oxygen and Fuel regulators checkvalves; cylinders and carrying stand.

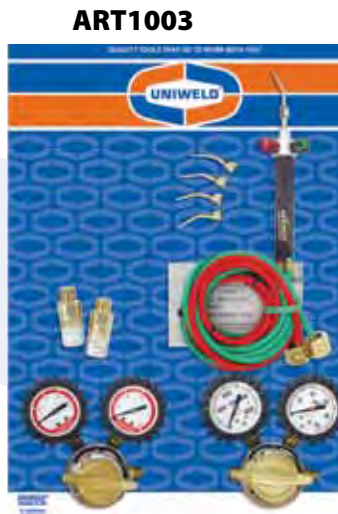
**ALL ARTORCH®
GAUGES ARE
FITTED WITH
PROTECTIVE
RUBBER
BOOTS**



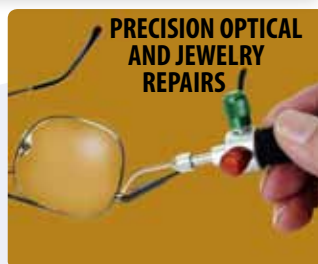
ARTH-6B

N/A

The comfortable fit, light weight, flexible color-coded hoses and easily accessible control valves make the Artorch® a dependable, efficient flame tool.



ART1003



**PRECISION OPTICAL
AND JEWELRY
REPAIRS**



ART1004A



**LIGHT DUTY
HOME REPAIRS**

PART# UPC#	ART1003 82805	ART1003B 82803	ART1003P 82804	ART1004A 82802	ART1010P 82807	ART1014 82810
DESCRIPTION	ARTORCH® ACETYLENE KIT	ARTORCH® ACETYLENE KIT	ARTORCH® PROPANE KIT	ARTORCH® MAP/Pro™/PROPANE KIT	ARTORCH® PROPANE TOTE OUTFIT	ARTORCH® TOTE OUTFIT
HOSE [FITTINGS]	ARTH6B 6' TWIN HOSE ["B"]	ARTH6B 6' TWIN HOSE ["B"]	ARTH6B 6' TWIN HOSE ["B"]	ARTH6B 6' TWIN HOSE ["B"]	ARTH6B 6' TWIN HOSE ["B"]	ARTH6B 6' TWIN HOSE ["B"]
CURVED TIP(S)	#2, #3, #4 #5, #6	#2, #3, #4 #5, #6	#3, #4, #5 #6, #7	#2, #3, #4 #5, #6	#3, #4, #5 #6, #7	#4
FUEL REG.	RMC2B	RB2B	RLPB	RMC2B	RP3B	RP3B
OXY REG.	ROB	ROB	ROB	ROB	ROB	RP03B
REGULATOR CHECK VALVES	RCV100 RCV101	RCV100 RCV101	RCV100 RCV101	RCV100 RCV101	RCV100 RCV101	N/A
CYLINDERS	N/A	N/A	N/A	MC ACETYLENE AND R OXYGEN CYLINDERS	R OXYGEN CYLINDER, PDC DISPOSABLE PROPANE CYLINDER	N/A
TOTE	N/A	N/A	N/A	511 [PLASTIC]	511 [PLASTIC]	N/A
WRENCH	N/A	N/A	N/A	W05 [w/Chain]	N/A	N/A

ALL ARTORCH® KITS/OUTFITS INCLUDE INSTRUCTION BOOKLET. MC FUEL & R OXYGEN CYLINDERS ARE SHIPPED EMPTY.
LP DISPOSABLE CYLINDERS ARE SHIPPED SEPARATELY.

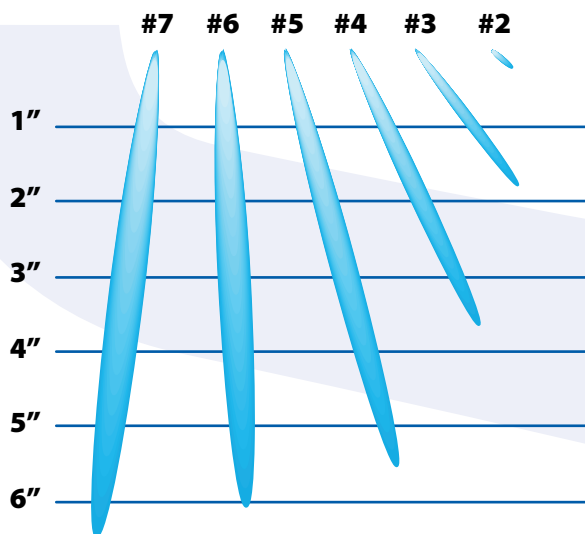
CURVED/STRAIGHT/TWIN TIPS

FOR ARTORCH® OUTFITS

In order to achieve pinpoint flame accuracy the Artorch® tip sizes #2 and #3 have an extremely small orifice diameter. These tips are fitted with a synthetic sapphire insert to assure that the tip orifices hold tight tolerances without warping.

Tip size #2 should only be used with high pressure gases such as acetylene or hydrogen.

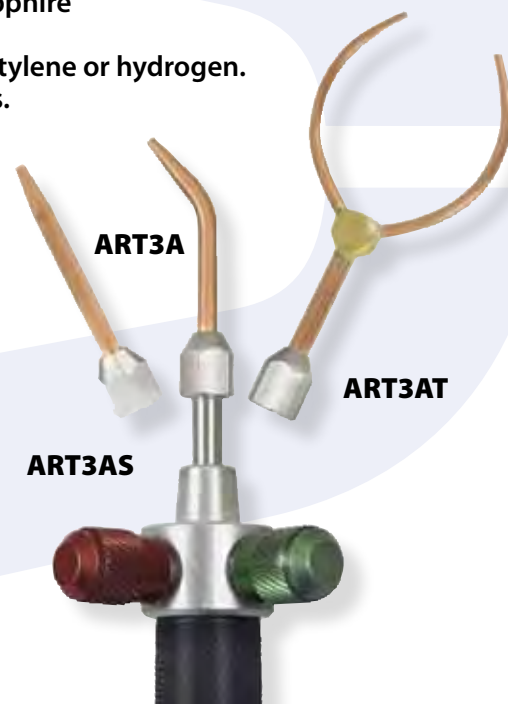
Tip size #3, #4, #5, #6 & #7 provide ample heat for larger applications.



Recommended pressure settings and recommended fuel gases

TIP SIZE	ORIFICE DIAM.	GAS PRESSURE (PSI)	
		OXY - FUEL	
2	.006"	2 - 2	
3	.011"	3 - 3	
4	.020"	4 - 4	
5	.029"	6 - 6	
6	.037"	6 - 6	
7	.047"	8 - 8	

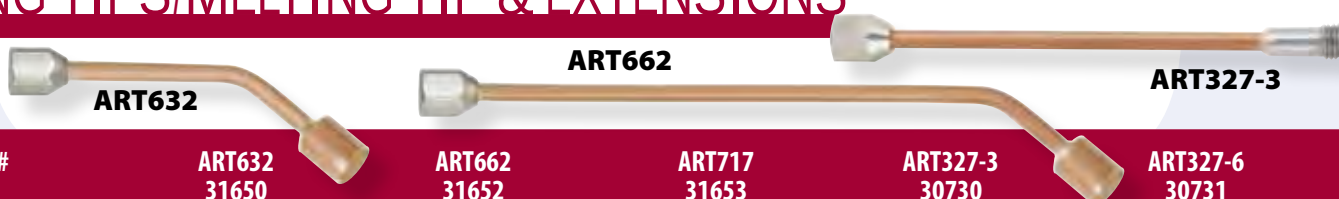
TIP #2: Use only Acetylene or Hydrogen. All other tips can be used with Acetylene, Propane, MAP/Pro™, Propylene, Hydrogen or Natural Gas. The above pressures apply to all fuel gases.



PART# UPC#	ART2A 30702	ART3A 30703	ART4A 30704	ART5A 30705	ART6A 30706	ART7A 30707	ART2AS 30712	ART3AS 30713
TIP DESCRIPTION	CURVED	CURVED	CURVED	CURVED	CURVED	CURVED	STRAIGHT	STRAIGHT
FLAME LENGTH	1/4"	1 3/4"	3 1/2"	5 1/2"	6"	6 1/2"	1/4"	1 3/4"
ORIFICE DIAMETER	.006"	.011"	.020"	.029"	.037"	.047"	.006"	.011"
PSI OXYGEN	2	3	4	5	6	8	2	3
PSI FUEL	2	3	4	5	6	8	2	3

PART# UPC#	ART4AS 30714	ART5AS 30715	ART6AS 30716	ART7AS 30717	ART3AT 30723	ART4AT 30724 * FLAME LENGTH MAY VARY	ART5AT 30725	ART6AT 30726
TIP DESCRIPTION	STRAIGHT	STRAIGHT	STRAIGHT	STRAIGHT	TWIN	TWIN	TWIN	TWIN
FLAME LENGTH	3 1/2"	5 1/2"	6"	6 1/2"	1 3/4"*	3 1/2"*	5 1/2"*	6"*
ORIFICE DIAMETER	.020"	.029"	.037"	.047"	.011"	.020"	.029"	.037"
PSI OXYGEN	4	5	6	8	3	4	5	6
PSI FUEL	4	5	6	8	3	4	5	6

HEATING TIPS/MELTING TIP & EXTENSIONS



PART# UPC#	ART632 31650	ART662 31652	ART717 31653	ART327-3 30730	ART327-6 30731
TIP DESCRIPTION	3" ROSEBUD HEATING TIP MELT UP TO 3 oz. OF GOLD, BRONZE/SILVER	6" ROSEBUD HEATING TIP MELT UP TO 3 oz. OF GOLD, BRONZE/SILVER	6" PROPANE HEATING TIP FOR CASTING & ANNEALING MELT UP TO 3 oz. OF GOLD, BRONZE/SILVER	3" TIP EXTENSION FITS ALL ARTORCH TIPS	6" TIP EXTENSION FITS ALL ARTORCH TIPS
BTU OUTPUT	8,000	8,000	-	N/A	N/A



ACCESSORIES ARTORCH®

SPECIAL
PURPOSE
FLAME TOOLS

REGULATORS



The Artorch® line of regulators range from the RP3B disposable cylinder type used for brazing to the light and medium duty single stage type used for brazing, heating and melting. Regulators available for larger tanks.



SEE PAGES 82-83
FOR ALL R SERIES
REGULATORS

PART# UPC#	ROB 12001	RMC2B 12019	RLPB 12015	RP3B 43001	RPO3B 43009
DESCRIPTION	OXYGEN	ACETYLENE	PROPANE	FUEL	OXYGEN
CGA INLET	540	200	510	600	600
OUTLET CONNECTION	"B"RH 9/16"-18(M)	"B"LH 9/16"-18(M)	"B"LH 9/16"-18(M)	"B"LH 9/16"-18(M)	"B"RH 9/16"-18(M)
DEL. PSIG	2-60	2-15	2-40	2-15	5-125
GAUGE	1 1/2"	1 1/2"	1 1/2"	N/A	N/A
STAGE	SINGLE	SINGLE	SINGLE	N/A	N/A
TANKS	R, R40	MC	FITS REFILLABLE PROPANE CYLINDER	MDC MAP/Pro™ DISPOSABLE CYL.	ODC OXYGEN DISPOSABLE CYL.

HOSES

PART# UPC#	ARTH3B 43589	ARTH6B 43592	ARTH6A 43590	ARTH12B 43593	ARTH12A 43591
HOSE DESCRIPTION OXY [GREEN] /FUEL[RED]	TWIN HOSE REPLACEMENT KIT	TWIN HOSE REPLACEMENT KIT	TWIN HOSE REPLACEMENT KIT	TWIN HOSE REPLACEMENT KIT	TWIN HOSE REPLACEMENT KIT
HOSE LENGTH	3'	6'	6'	12'	12'
FERRULES TOOL	2 FERRULES FERRULE TOOL	2 FERRULES FERRULE TOOL	2 FERRULES FERRULE TOOL	2 FERRULES FERRULE TOOL	2 FERRULES FERRULE TOOL
FITTINGS	"B"	"B"	"A"	"B"	"A"

PART# UPC#	ART1GH6B 43653	ART1GH6A 43651	ART1GH12B 43657	ART1GH12A 43655
HOSE DESCRIPTION	SINGLE OXYGEN GREEN HOSE	SINGLE OXYGEN GREEN HOSE	SINGLE OXYGEN GREEN HOSE	SINGLE OXYGEN GREEN HOSE
HOSE LENGTH/FITTINGS	6'-"B" [RH]	6'-"A" [RH]	12'-"B" [RH]	12'-"A" [RH]
FERRULES TOOL	1 FERRULE FERRULE TOOL	1 FERRULE FERRULE TOOL	1 FERRULE FERRULE TOOL	1 FERRULE FERRULE TOOL

PART# UPC#	ART1RH6B 43652	ART1RH6A 43650	ART1RH12B 43656	ART1RH12A 43654
HOSE DESCRIPTION	SINGLE FUEL RED HOSE	SINGLE FUEL RED HOSE	SINGLE FUEL RED HOSE	SINGLE FUEL RED HOSE
HOSE LENGTH/FITTINGS	6'-"B" [LH]	6'-"A" [LH]	12'-"B" [LH]	12'-"A" [LH]
FERRULES TOOL	1 FERRULE FERRULE TOOL	1 FERRULE FERRULE TOOL	1 FERRULE FERRULE TOOL	1 FERRULE FERRULE TOOL

ADDITIONAL ARTORCH® ACCESSORIES: ART40 [REPLACEMENT FERRULES - 4 PIECES AND FERRULE TOOL]

ART40-10 [REPLACEMENT FERRULES - 10 PIECES AND FERRULE TOOL] • WG53 GOGGLES (SEE PAGE 109)

• FL34 FLINT LIGHTER (SEE PAGE 107) RCV100 & RCV101 CHECK VALVES; RFA100 & RFA101 FLASHBACK ARRESTORS (SEE PAGE 106)

• FY10XV AND FY11XV "Y" CONNECTORS WITH VALVES (SEE PAGE 105)

BRITISH AND
EURO FITTINGS
AVAILABLE
UPON
REQUEST

BALLOON REGULATORS

Easy to use and easy to install, user friendly, Fast-Flo® Balloon Inflators and accessories for florists, party stores, supermarkets and rentals.

BR2MHG Automatic shut-off mylar balloon filler valve and regulator (won't over-inflate and burst balloon)

Spin-on hand tight connection with O-ring for tight leak proof connections

Piston-type design

Solid brass connections

Durable rubber latex tilt valve

Drilled and tapped for optional tie hook and ribbon cutter

Sintered bronze inlet filter

Rear mounted

1½" 4000 psi gauge

**BR2DHG**

Spin-on hand tight connection with O-ring for tight leak proof connections

Piston-type design

Solid brass connections

Durable rubber tilt valve

Drilled and tapped for optional tie hook and ribbon cutter

Additional 1/4" NPT port for second filler valve (if needed)

Sintered bronze inlet filter

Rear mounted 1½" 4000 psi gauge



Colorful
Informative
Packaging

BR2PHW

Dependable hand or wrench tight connection

Piston-type design

Solid brass connections

Drilled and tapped for optional tie hook and ribbon cutter

Additional

1/4" NPT port for second filler valve (if needed)

Sintered bronze inlet filter

**BR2DH**

Spin-on hand tight connection with O-ring for tight leak proof connections

Piston-type design

Solid brass connections

Durable rubber tilt valve

Drilled and tapped for optional tie hook and ribbon cutter

Additional 1/4" NPT port for second filler valve (if needed)

Sintered bronze inlet filter



PART#
UPC#

BR2MHG
14206

BR2DHG
14205

BR2DH
14204

BR2PHW
14203

FAST-FLO®

BALLOON
REGULATOR

BALLOON
REGULATOR

BALLOON
REGULATOR

BALLOON
REGULATOR

BALLOON
INFLATOR
DESCRIPTION

DELUXE ALL-IN-ONE
MYLAR BALLOON
INFLATOR WITH MYLAR
VALVE, LATEX TILT
VALVE & GAUGE

DELUXE
BALLOON
INFLATOR
WITH GAUGE

DELUXE
BALLOON
INFLATOR

PREMIUM
BALLOON
INFLATOR



FAST-FLO® BALLOON INFLATORS

SPECIALTY
REGULATORS

HELIUM CYLINDER DATA

BALLOON REGULATORS AND ACCESSORIES

Latex Balloon size	7"	9"	10"	12"	14"	16"	18" Mylar
Volume of Helium per Balloon (cu./ft.)	.15	.27	.30	.52	1.00	1.25	.44

*Hand tight or wrench
tight models available*



Quick and easy tilt valve fillup

*Optional ribbon cutter
and tie-off hooks*



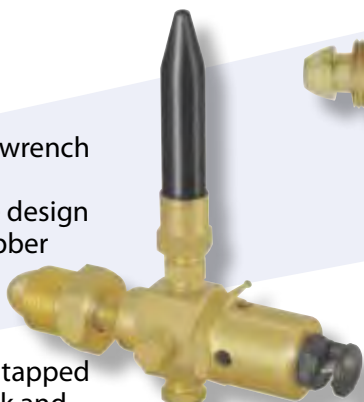
BR2PH

- Horizontal one-piece hand tight inflator
- Solid brass piston-style construction
- Durable rubber tilt valve
- Easy to install and use



BR2SW

- Leak-proof wrench tight connection
- Piston-type design
- Durable rubber tilt valve
- Solid brass construction
- Drilled and tapped for optional tie hook and ribbon cutter



BR2SWG

- Secure wrench tight connection
- Piston-type design
- Durable rubber tilt valve
- Rear mounted 1½" 4000 psi gauge
- Additional ¼" NPT port for second filler valve (optional)



BTVM



BBTH



BH59



BPSC



GS173H



BTVF



OPTIONAL ACCESSORIES

PART# UPC#	BR2SWG 14202	BR2SW 14201	BR2PH 14200
FAST-FLO®	BALLOON REGULATOR	BALLOON REGULATOR	BALLOON REGULATOR
BALLOON INFLATOR DESCRIPTION	ECONOMICAL STANDARD BALLOON INFLATOR WITH GAUGE	ECONOMICAL STANDARD BALLOON INFLATOR	ECONOMICAL STRAIGHT POST TYPE BALLOON INFLATOR

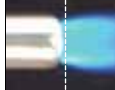
PART# UPC#	BTVM 14220	BBTH 14222	BH59 14207
	TILT VALVE WITH MALE BUSHING	TIE HOOK	HAND TIGHT NUT CGA580
PART# UPC#	BPSC 14223	BTVF 14221	GS173H 51175
	PLASTIC RIBBON CUTTER	TILT VALVE WITH FEMALE BUSHING	CONTENTS GAUGE 1½" 4000 PSI

SELF IGNITING TWISTER[®] 2 SWIRL COMBUSTION HAND TORCH

The HT44 Twister[®] 2 Self Igniting Hand Torch features easy start electric ignition combined with the tech favorite Twister[®] swirl combustion technology to produce a faster lighting and more efficient hand torch for the plumber and HVAC technician.

- Use with MAP//Pro[™] or Propane
- Instant flame action
- Use for soldering and brazing of Copper, Brass and Aluminum
- Swirl combustion for high energy efficient flame that's stable even in windy conditions
- Trigger lock with safety feature and instant release
- Perfect flame adjustment knob
- Operates in any position...even upside down.

TARGET HEAT

	Propane	1750° F (954 °C)
	MAP//Pro[®]	2400° F (1316 °C)

Tubing Capacity

	Soldering	Brazing
Propane	Up to 2"	Up to 3/4"
MAP//Pro[®]	Up to 3"	Up to 1"

The LP Twister[®] swirl combustion tips produce a high energy efficient flame that is stable even in windy conditions.



A helical blade inside the tip premixes the fuel gas and air to achieve maximum combustion.

This type of flame technology maximizes the BTU's and transfers heat faster than other air/LP gas flame tools.



PART# HT44
UPC# 43216



OUTFITS & TIPS TWISTER® 2

HVAC-R
PRODUCTS

SELF IGNITING TWISTER® 2 OUTFITS/TIPS

UniWeld has combined easy start electric ignition with the Twister® swirl combustion technology to produce the Twister® 2 Self Igniting swirl combustion quick connect tips. It's a new, faster lighting, more efficient flametool for the plumber and HVAC technician.



OUTFITS

PART# UPC#	KT2A5 89650	KT2A5T 89651	KT2A5MC 89652	KT2A5MCT 89653	KT2LP4 89660
REGULATOR	RB ACETYLENE	RB ACETYLENE	RMC ACETYLENE	RMC ACETYLENE	RLPB LP GAS
QUICK CONNECT HANDLE	TH6, REAR CONTROL VALVE	TH6, REAR CONTROL VALVE	TH6, REAR CONTROL VALVE	TH6, REAR CONTROL VALVE	TH6, REAR CONTROL VALVE
TWISTER® 2 TIPS	T2A-5	T2A-5	T2A-5	T2A-5	T2LP-4
HOSE 12½FT.	H12, ACETYLENE SINGLE HOSE	H12, ACETYLENE SINGLE HOSE	H12, ACETYLENE SINGLE HOSE	H12, ACETYLENE SINGLE HOSE	HLP14B, LP GAS SINGLE HOSE
CARRYING STAND TANKS	-	502 "B" ACETYLENE	-	512 "MC" ACETYLENE	-

KT2A5T
PROTECTIVE
RUBBER
GAUGE
BOOT

TIPS

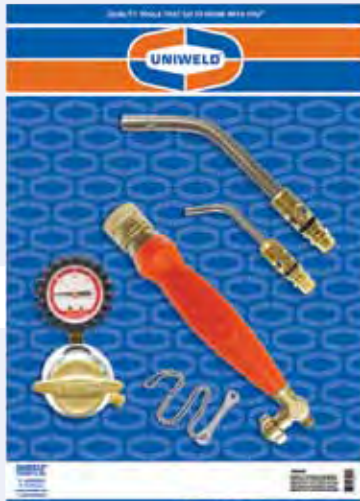
PART# UPC#	T2A-3 43050	T2A-5 43051	T2A-8 43052	T2A-12 43053
COPPER TUBING CAPACITY SOFT SOLDER [ACETYLENE]	UP TO 1"	¾" - 1½"	1" - 2"	2" - 4"
COPPER TUBING CAPACITY SILVER SOLDER [ACETYLENE]	UP TO 1/2"	1/4" - ¾"	1/2" - 1"	1" - 2"
REPLACEMENT TIP ENDS	T2A-3TE UPC# 43060	T2A-5TE UPC# 43061	T2A-8TE UPC# 43062	T2A-12TE UPC# 43063

**T2A-12
ACETYLENE
TIP**



**T2A-12TE
ACETYLENE
TIP END**





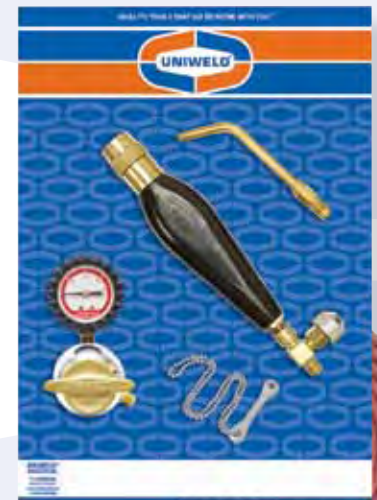
TWISTER® AIR/FUEL

PART# 89600
UPC# 89600

SOLDERING KIT SOFT FLAME

PART# K37
UPC# 89100

Uniweld's air/acetylene soldering and brazing kit includes a screw connect rear valve handle, a screw connect soft solder tip, an acetylene regulator with a booted 1½" gauge and a 12.5 ft. acetylene hose, ("A") connection.



The air/acetylene Twister® Kit includes an acetylene regulator with a booted 1½" gauge (CGA520), an ergonomically designed quick connect handle, two swirl combustion Twister® tips and a 12.5 ft. acetylene hose, ("A") connection.

RP3T6 SILVER BULLET®



**OPEN
REGULATOR**

**PULL DOWN
CASING
TO IGNITE**



PART# RP3T6
UPC# 43006

The electric ignition Silver Bullet® Tip eliminates the need for a spark lighter. Pull down on the bullet casing to activate the piezo electric spark ignitor. Tip swivels 360 degrees for operation in any position... even upside down. Operates on MAP//Pro™ and Propane.

TARGET HEAT

Propane 1750° F (954 °C)
MAP//Pro® 2400° F (1316 °C)

Tubing Capacity

	Soldering	Brazing
Propane	Up to 1"	Up to 5/8"
MAP//Pro™	Up to 1½"	Up to 7/8"

UNITORCH® HAND TORCH

PART# MKT-4L
UPC# 89501

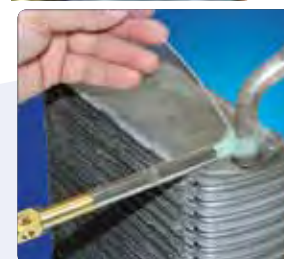
Unitorch® hand torch with LP Twister® tip and MAP//Pro™ disposable cylinder. Soldering and brazing kit for automotive, plumbing, HVAC-R applications. Kit includes: Unitorch regulator with swivel elbow that can be operated in an upside down position.

TARGET HEAT

Propane 1750° F (954 °C)
MAP//Pro® 2400° F (1316 °C)

Tubing Capacity

	Soldering	Brazing
Propane	Up to 1"	Up to 5/8"
MAP//Pro™	Up to 1½"	Up to 7/8"



MKT-4L





CAP'N HOOK® OUTFITS OXYACETYLENE

The UniWeld Cap'n Hook® Outfit is portable, lightweight and adaptable so the contractor can cut, weld and braze in remote locations.

R SERIES REGULATORS have single scale 1½" gauges with protective rubber boots.

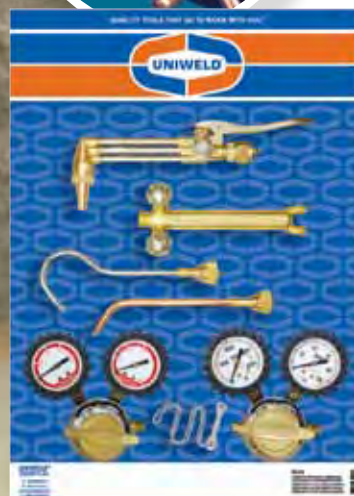
71 WELDING HANDLE with two-tube silver brazed construction with front stainless steel ball point valves for one-hand fingertip control and positive shutoff.

The patented **MTF-5 CAP'N HOOK® TIP** is constructed of stainless steel that provides a stable flame time after time while holding its shape. Cap'n Hook tips supply 100% wraparound for even heat distribution and excellent brazing.

KL22 & KL22P-T outfits are capable of cutting up to 2" with UniWeld's **CA100 CUTTING ATTACHMENT** when used with proper cutting tips (sold separately).

Uses CT100 series cutting tips.

[See pg. 63]



K22P-T

K22 and KL22: Cylinders not included.
KL22P-T and K22P-T: Cylinders and outfits are unitized packaged in one master carton†

Use 20 cu.ft (R) Oxygen cylinder
and 10 cu.ft. (MC) Acetylene cylinder

KL22

CAP'N HOOK® BRAZING OUTFIT	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIP	CAP'N HOOK® BRAZE TIP	OXYGEN* REGULATOR 2-60 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ACCESSORIES
PART# KL22P-T UPC# 82506	71	CA100	CT-100	TYPE 17-2	MTF-5	R0 CGA540	RMC2 CGA200	TWIN HOSE 12.5' 3/16" "B" GOGGLES, LIGHTER, 511 PLASTIC TOTE, MC/R TANKS†, W05 WRENCH
PART# KL22 UPC# 82500	71	CA100	CT-100	TYPE 17-2	MTF-5	R0 CGA540	RMC2 CGA200	TWIN HOSE 12.5' 3/16" "B" GOGGLES, LIGHTER, W05 WRENCH
PART# K22P-T UPC# 82345	71	N/A	N/A	TYPE 17-2	MTF-5	R0 CGA540	RMC2 CGA200	TWIN HOSE 12.5' 3/16" "B" GOGGLES, LIGHTER 511 PLASTIC TOTE, MC/R TANKS†, W05 WRENCH
PART# K22 UPC# 82339	71	N/A	N/A	TYPE 17-2	MTF-5	R0 CGA540	RMC2 CGA200	TWIN HOSE 12.5' 3/16" "B" GOGGLES, LIGHTER, W05 WRENCH † Cylinders shipped empty.

WOLFPOWER® TUNGSTEN ELECTRODES

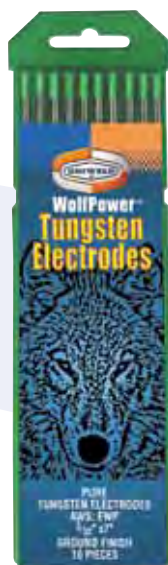


Wolfpower® Precision Centerless Ground Tungsten Electrodes are used for Gas Tungsten Arc Welding. Gas Tungsten Arc Welding (GTAW) is commonly called TIG Welding. **Pure Tungsten** electrodes are basically unalloyed; they contain a minimum of 99.5 wt-% Tungsten. These electrodes are known to be the most economical and are considered good for general purpose welding on Aluminum and Magnesium. The tip will form a clean, balled end that provides good ARC stability on AC.

2% Thoriated Tungsten is the most common electrode used today. The electrodes contain a nominal 2 wt-% of Thorium Oxide (ThO_2) throughout the entire length of the rod. Provides a stable ARC and is easy to start. Used generally on DC negative or straight polarity.

2% Ceriated Tungsten electrodes contain 2 wt-% of Cerium Oxide in place of Thorium. They are non-radioactive and easier to start than pure Tungsten. They can be used on AC or DC in either polarity and have a reduced rate of burn-off.

1% Zirconiated Tungsten electrodes contain Zirconium Oxide. Minimizes Tungsten contamination of the weld. Retains a balled end during welding and performs well on AC.



**PURE
TUNGSTEN**



**2%
THORIATED
TUNGSTEN**



**2%
CERIATED
TUNGSTEN**



**1%
ZIRCONIATED
TUNGSTEN**

PRODUCT	SIZES				
	.040"	1/16"	3/32"	1/8"	5/32"
EWP Pure Tungsten	Part# WED89	Part# WEDD9	Part# WEDF9	Part# WEDH9	Part# WEDJ9
EWTh-2 Thoriated Tungsten		Part# W2DD9	Part# W2DF9	Part# W2DH9	
EWCe-2 Ceriated Tungsten		Part# WHDD9-Q	Part# WHDF9-Q	Part# WHDH9-Q	
EWZr-1 Zirconiated Tungsten		Part# WIDD9-Q	Part# WIDF9-Q	Part# WIDH9-Q	

The five factors used to select the proper Tungsten Electrode for GTAW are: 1. Material to be welded. 2. Size of material. 3. Shape of tip on torch to be used. 4. The electrode holder. 5. The nozzle. Pure Tungsten is not recommended for use on DC due to their susceptibility to weld contamination.





ALLOYS/FLUXES

ALLOYS
GMAW

BRAZING ALLOYS & FLUXES

Unibrite Uni-1450A Flux cored, lead free, Silver Bearing Solder is used for air conditioning, refrigeration and plumbing applications. • Free of Cadmium, Zinc, Lead • Bright, shiny finish • High tensile strength • Can be used in contact with food products

Uni-1500 and UNI-1500FC Low fuming Bronze Brazing Alloy, Bare and Flux Coated. • For brazing steel and cast iron • Superior wetting for complete tinning and general purpose brazing • Used on salvage or repair of yellow brass or bronze casting

Uni-1000 Silver Brazing Flux is used with silver and silver alloys. • Long active life at brazing temperatures • Excellent fluidity and promotes outstanding adherence • Thinned down to various consistencies by adding water • Automotive, aerospace and electronic applications

Uni-1500 All purpose powder Brazing and Welding Flux used with bronze alloys when weld brazing or brazing on copper alloys and steel. • Used in powder form or mixed with water • Dissolves and thoroughly removes oxides • Automotive, air conditioning, marine

Uni-1450 Heavy duty, liquid soft Soldering Flux for excellent soldering on copper-based and ferrous alloys, including stainless steel • Non-fuming • Water soluble residues

PRODUCT	ALLOYS							
	1/16"	1/16"	3/32"	3/32"	1/8"	1/8"	3/16"	3/16"
Uni-1450A Uni-Brite	Part# BD1K9 10' Carded							
Uni-1500	Part# C1AD1 36" 1 lb Pkg	Part# C1AD5 36" 10 lb Pkg	Part# C1AF1 36" 1 lb Pkg	Part# C1AF5 36" 10 lb Pkg	Part# C1AH1 36" 1 lb Pkg	Part# C1AH5 36" 10 lb Pkg	Part# C1AK1 36" 1 lb Pkg	Part# C1AK5 36" 10 lb Pkg
Uni-1500FC			Part# C4BF1 36" 1 lb Pkg	Part# C4BF5 36" 10 lb Pkg	Part# C4BH1 36" 1 lb Pkg	Part# C4BH5 36" 10 lb Pkg	Part# C4BK1 36" 1 lb Pkg	Part# C4BK5 36" 10 lb Pkg

PRODUCT			FLUXES
Uni-1000	Part# F19YJ	7 oz. Pkg	
Uni-1500	Part# F28YF	3.5 oz. Pkg	
Uni-1450	Part# F4CYG	4 oz. Pkg	

MAINTENANCE & REPAIR

PRODUCT	1/16"	1/16"	3/32"	3/32"	1/8"	
Uni-1500FC	Part# C42D1 18" 1 lb Pkg		Part# C42F1 18" 1 lb Pkg		Part# C42H1 18" 1 lb Pkg	• Used on fabrication and repair of galvanized sheet; pipe and angles • Salvage and repair work
Uni-1900					Part# C77H1 14" 1 lb Pkg	• All position electrode • Used on copper alloys, steel and cast iron • AC/DC reverse polarity

MAINTENANCE & REPAIR (continued)

Cont'd from page 121

PRODUCT	1/16"	1/16"	3/32"	3/32"	1/8"	1/8"	5/32"	3/16"
Uni-2000	Part# D17D1 12" 1 lb Pkg		Part# D17F1 14" 1 lb Pkg		Part# D17H1 14" 1 lb Pkg	• All position electrode for mild steel • Used for filling holes and buildup of worn surfaces		
Uni-2200			Part# D27F1 14" 1 lb Pkg		Part# D27H1 14" 1 lb Pkg	• Excellent welds through dirty and contaminated surfaces • Good arc at low amperage		
Uni-2300			Part# D37F1 14" 1 lb Pkg		Part# D37H1 14" 1 lb Pkg	• Extra low Hydrogen, low alloy electrode • Works well on sulphur bearing and tramp (lead) steels		
Uni-2400		• Chamfering or gouging electrodes • Removing unwanted or defective metal; preparation prior to welding			Part# E17H1 14" 1 lb Pkg	Part# E17H4 14" 5 lb Pkg		
Uni-5000			Part# H17F1 14" 1 lb Pkg		Part# H17H1 14" 1 lb Pkg	• High tensile alloy for joining vanadium steels, mild and medium carbon steels and stainless steels		
Uni-6000			• High alloy wearfacing for severe abrasion • For crusher applications • Construction, mining applications			Part# K17H4 5 lb Pkg	Part# K17J4 5 lb Pkg	
Uni-6200			• Build-up and high impact on most steels • Extremely tough build-up • Rebuild idler rollers and rail ends			Part# K27H4 14" 5 lb Pkg	Part# K27J4 14" 5 lb Pkg	
Uni-6300			• Produces smooth, high-crowned weld deposits • Used on most steels and cast iron • Resists impact			Part# K37H4 14" 5 lb Pkg	Part# K37J4 14" 5 lb Pkg	
Uni-3000			Part# L17F1 10" 1 lb Pkg		Part# L17H1 14" 1 lb Pkg	• Premium Nickel Iron electrode • Dense deposits on dirty, oil soaked cast iron • Crack-resistant welds		
Uni-3500			Part# L27F1 10" 1 lb Pkg		Part# L27H1 14" 1 lb Pkg	• Premium high Nickel alloy for thin wall grey cast iron and fabrication of cast iron to other metals • Cladding		
Uni-3800			• Nickel free alloy for maximum bonds on difficult to weld cast iron • Repair burned furnace grates.			Part# L47H5 14" 10 lb Pkg		
Uni-4000			Part# P17F1 14" 1 lb Pkg		Part# P17H1 14" 1 lb Pkg	• Premium Aluminum electrode with excellent arc stability • Use for heat treated aluminum & heavy castings		
Uni-4200		• Self fluxing Aluminum solder for joining and build-up • Fills holes and builds up worn areas • No flux need			Part# P3KH1 18" 1 lb Pkg	Part# P3KH9 9" 6 pcs card		
Uni-4300	Part# P4KD9 10' coil	Part# P4KD9S 10' coil	• Joins aluminum, copper and brass • P4KD9 Includes: 1 oz. Uni-4300 Aluminum Soft Solder Flux • P4KD9S Includes: 2 oz. Uni-4300 Aluminum Soft Solder Flux w/ Applicator					
Uni-4400			• Flux cored torch alloy for build-ups on aluminum • For cracks and breaks in aluminum castings			Part# PCJH3 32" 3 lb Pkg		



MILD STEEL ALLOYS

Uni-6011 Used on a wide range of steel base metals. • Usable in all positions • Applications include: tanks (both plain and galvanized), pipe welding, steel casting repairs, machinery parts and structural fabrication • Fast freezing deposit for the vertical up progression used in piping in the horizontal position • Works well with AC power source

PRODUCT	3/32"	3/32"	3/32"	1/8"	1/8"	1/8"	1/8"	
Uni-6011 SELECT	Part# D67F4SC 14" 5 lb Pkg	Part# D67F5SC 14" 10 lb Pkg	Part# D67F8SC 14" 50 lb Pkg	Part# D67H4SC 14" 5 lb Pkg	Part# D67H5SC 14" 10 lb Pkg	Part# D67H8SC 14" 50 lb Pkg		
Uni-6011			Part# D67F8 14" 50 lb Pkg			Part# D67H8 14" 50 lb Pkg	Part# D67H8-HSC 14" 50 lb Can	
PRODUCT	5/32"	5/32"	5/32"	5/32"	3/16"	3/16"		
Uni-6011 SELECT	Part# D67J4SC 14" 5 lb Pkg	Part# D67J5SC 14" 10 lb Pkg	Part# D67J8SC 14" 50 lb Pkg					
Uni-6011			Part# D67J8 14" 50 lb Pkg	Part# D67J8-HSC 14" 50 lb Can	Part# D67K8 14" 50 lb Pkg	Part# D67K8-HSC 14" 50 lb Can		

Uni-6013 Used on all types of mild steel fabrication requiring ease of operation and good appearance with either AC or DC straight polarity. • Works well with poor fit up • Smooth, flat bead appearance • Easy slag removal ⚠ 5/32" 14" 50 lb Pkg available: D87J8SC and D87J8

PRODUCT	3/32"	3/32"	3/32"	1/8"	1/8"	1/8"	5/32"	5/32" ⚠
Uni-6013 SELECT	Part# D87F4SC 14" 5 lb Pkg	Part# D87F5SC 14" 10 lb Pkg	Part# D87F8SC 14" 50 lb Pkg	Part# D87H4SC 14" 5 lb Pkg	Part# D87H5SC 14" 10 lb Pkg	Part# D87H8SC 14" 50 lb Pkg	Part # D87J4SC 14" 5 lb Pkg	Part# D87J5SC 14" 10 lb Pkg
Uni-6013			Part# D87F8 14" 50 lb Pkg			Part# D87H8 14" 50 lb Pkg		

Uni-6022 A fluid electrode that is reliable for roof decking and down hill welding. Designed for welding roof decking to support beams with burn-through spot welds. • Rapid downhill welding when joining light gauge materials, including sheet metal

PRODUCT	1/8"	1/8"	1/8"	5/32"	5/32"	5/32"		
Uni-6022 SELECT	Part# DN7H4SC 14" 5 lb Pkg	Part# DN7H5SC 14" 10 lb Pkg	Part# DN7H8SC 14" 50 lb Pkg	Part# DN7J4SC 14" 5 lb Pkg	Part# DN7J5SC 14" 10 lb Pkg	Part# DN7J8SC 14" 50 lb Pkg		

MILD STEEL ALLOYS

Cont'd from page 123

Uni-7014 Suitable for most types of mild steel fabrication and/or iron work. Used in applications where a very smooth appearance is important, including machine bases, frames and heavy sheet metal. • AC/DC, either polarity ☒ 5/32" 14" 50 lb Pkg available: D97J8SC and D97J8

PRODUCT	3/32"	3/32"	3/32"	1/8"	1/8"	1/8"	5/32"	5/32" ☒
Uni-7014 SELECT	Part# D97F4SC 14" 5 lb Pkg	Part# D97F5SC 14" 10 lb Pkg	Part# D97F8SC 14" 50 lb Pkg	Part# D97H4SC 14" 5 lb Pkg	Part# D97H5SC 14" 10 lb Pkg	Part# D97H8SC 14" 50 lb Pkg	Part # D97J4SC 14" 5 lb Pkg	Part# D97J5SC 14" 10 lb Pkg
Uni-7014			Part# D97F8 14" 50 lb Pkg			Part# D97H8 14" 50 lb Pkg		

Uni-7018 A low Hydrogen content electrode used on Carbon and medium textile steels, especially under conditions of restraint. Used in construction grades of steel for ship building, pipelines, boiler plate, cast steel and for machine screw parts. • X-ray quality welds • High impact fracture resistance

PRODUCT	3/32"	3/32"	3/32"	1/8"	1/8"	1/8"		
Uni-7018 SELECT	Part# DA7F4SC 14" 5 lb Can	Part# DA7F5SC 14" 10 lb Can	Part# DA7F8SC 14" 50 lb Can	Part# DA7H4SC 14" 5 lb Can	Part# DA7H5SC 14" 10 lb Can	Part# DA7H8SC 14" 50 lb Can		
Uni-7018			Part# DA7F8 14" 50 lb Can			Part# DA7H8 14" 50 lb Can		

PRODUCT	5/32"	5/32"	5/32"	3/16"	1/4"			
Uni-7018 SELECT	Part# DA7J4SC 14" 5 lb Can	Part# DA7J5SC 14" 10 lb Can	Part# DA7J8SC 14" 50 lb Can					
Uni-7018			Part# DA7J8 14" 50 lb Can	Part# DA7K8 14" 50 lb Can	Part# DA738 14" 50 lb Can			

Uni-7018AC A low Hydrogen electrode for low, medium and high carbon steels and high strength low alloy steels. Works well for skip or tack welds in utility and job shops where single phase 230V AC welders are used. • Excellent restrike characteristics ☒ 5/32" 14" 50 lb Can available: DB7J8SC

PRODUCT	3/32"	3/32"	3/32"	1/8"	1/8"	1/8"	5/32"	5/32" ☒
Uni-7018AC SELECT	Part# DB7F4SC 14" 5 lb Can	Part# DB7F5SC 14" 10 lb Can	Part# DB7F8SC 14" 50 lb Can	Part# DB7H4SC 14" 5 lb Can	Part# DB7H5SC 14" 10 lb Can	Part# DB7H8SC 14" 50 lb Can	Part# DB7J4SC 14" 5 lb Can	Part# DB7J5SC 14" 10 lb Can
Uni-7018AC						Part# DB7H8 14" 50 lb Can		



ALLOYS FLUXES

ALLOYS
GMAW

MILD STEEL ALLOYS

Uni-7024 A high speed Iron powder mild steel electrode used for plate fabrication, earth moving equipment, mining machinery, structural steel, railroad cars, agricultural machinery and general maintenance work. • Maximum deposition rate • Self removing type slag • Use with drag technique

PRODUCT	1/8"	5/32"	3/16"	1/4"				
Uni-7024	Part# DC7H8 14" 50 lb Pkg	Part# DC7J8 14" 50 lb Pkg	Part# DC7K8 14" 50 lb Pkg	Part# DC738 14" 50 lb Pkg				

Unipipe-6 A quick starting, all-position cellulosic mild steel electrode exhibiting superior arc stability, superior arc drive (penetration), tight slag and excellent wash-in. • General purpose fabrication, construction, shipbuilding and maintenance welding applications • Out-of-position X-ray quality welds • Vertical and overhead plate welding

PRODUCT	1/8"	1/8"	1/8"	5/32"	5/32"	5/32"	3/16"	
Unipipe-6 SELECT	Part# DV7H4SC 14" 5 lb Can	Part# DV7H5SC 14" 10 lb Can	Part# DV7H8SC 14" 50 lb Can	Part# DV7J4SC 14" 5 lb Can	Part# DV7J5SC 14" 10 lb Can	Part# DV7J8SC 14" 50 lb Can		
Unipipe-6			Part# DV7H8 14" 50 lb Can			Part# DV7J8 14" 50 lb Can	Part# DV7K8 14" 60 lb Can	

Steel 45 A general purpose, low carbon steel rod used for oxyacetylene welding of most common grades of steel. • Good ductility and machinability

PRODUCT	1/16"	3/32"	1/8"					
Steel 45	Part# DEAD5 36" 10 lb Pkg	Part# DEAF5 36" 10 lb Pkg	Part# DEAH5 36" 10 lb Pkg					

Steel 60 A high strength steel welding rod used for welding of carbon steel pipes in power plants and other conditions of severe service • Oxyacetylene torch applications • Meets all codes for grade B steels • Responds to heat treatment, flame hardening and cyaniding

PRODUCT	1/16"	3/32"	1/8"					
Steel 60	Part# DFAD5 36" 10 lb Pkg	Part# DFAF5 36" 10 lb Pkg	Part# DFAH5 36" 10 lb Pkg					

Steel TIG 70S2 Triple deoxidized steel welding wire used for single pass or multipass welding on all grades of carbon steel • Especially suited for dirty or rusted surfaces • Short-arc welding

PRODUCT	1/16"	3/32"	1/8"					
Steel TIG 70S2	Part# DGAD5 36" 10 lb Pkg	Part# DGAH5 36" 10 lb Pkg	Part# DGAH5 36" 10 lb Pkg					

MILD STEEL ALLOYS

Cont'd from page 125

Steel MIG 70S6/ Steel TIG 70S6 High speed mild steel welding wire with high Silicone and Manganese content. Used primarily for single pass welding. • High deoxidizer content for welding scaled and rusty plates • Excellent fluidity • Smooth bead appearance • Quiet, stable arc

PRODUCT	.023"	.023"	.023"	.030"	.030"	.035"	.035"	.035"
Steel MIG 70S6	Part# DJ4Z2 2 lb Spool	Part# DJ4ZA 11 lb Spool	Part# DJ4ZW 33 lb Spool	Part# DJ4I2 2 lb Spool	Part# DJ4IA 11 lb Spool	Part# DJ4P2 2 lb Spool	Part# DJ4PA 11 lb Spool	Part# DJ4PZ 44 lb Spool
Steel MIG 70S6 Precision Wound				Part# DJFIW 33 lb Spool		Part# DJFPW 33 lb Spool	.045"	
							DJFRW 33 lb Spool	DJ4RZ 44 lb Spool
PRODUCT	1/6"	3/32"	3/32"					
Steel TIG 70S6	Part# DJAD5 36" 10 lb Pkg	Part# DJAF5 36" 10 lb Pkg	Part# DJAH5 36" 10 lb Pkg					

71TGS An all-position, general purpose, self-shielding, flux cored welding wire for single pass applications. Used by fencing contractors, sheet metal shops, sign erectors and ranchers for outdoor applications with no gas required. • Used with portable 110V input welding machine • Requires no shielding gas • High deposition efficiency • Easy slag removal

PRODUCT	.030"	.030"	.035"	.035"				
71TGS	Part# DT4I2 2 lb Spool	Part# DT4I5 10 lb Spool	Part# DT4P2 2 lb Spool	Part# DT4P5 10 lb Spool				

NON-FERROUS WELDING ALLOYS

Uni-308L-16 An extra low carbon stainless steel welding electrode used to weld Types 304L and 347. The weld deposit, with controlled Ferrite, provides notch toughness and increased crack resistance. • Minimizes formation of chromium carbides • AC/DC reverse polarity

PRODUCT	3/32"	3/32"	3/32"	1/8"	1/8"	1/8"		
Uni-308L-16	Part# J27F1 1 lb Pkg	Part# J27F3 3 lb Pkg	Part# J27F5 10 lb Pkg	Part# J27H1 1 lb Pkg	Part# J27H3 3 lb Pkg	Part# J27H5 10 lb Pkg		

Uni-309L-16 Used primarily for joining stainless steels to themselves or to carbon or low alloy steels. Also used for welding dissimilar joints, that undergo heat treatment. • Increased resistance to intergranular corrosion • Reduced carbon levels

PRODUCT	3/32"	1/8	5/32"					
Uni-309L-16	Part# J47F5 10 lb Pkg	Part# J47H5 10 lb Pkg	Part# J47J5 10 lb Pkg					



ALLOYS FLUXES

ALLOYS
GMAW

NON-FERROUS WELDING ALLOYS

Uni-316L-16 A stainless steel welding electrode with Carbon limited to a maximum of 0.04% that provides a weld deposit with corrosion resistant qualities and reduces the possibility of carbide precipitation. • Good arc stability at low amperage • Easy slag removal

PRODUCT	3/32"	1/8"						
Uni-316L-16	Part# J77F5 10 lb Pkg	Part# J77H5 10 lb Pkg						

Uni-99 A high Nickel content electrode with an extruded coating for cold welding cast iron. Used to join ordinary gray irons to themselves or to other ferrous and nonferrous materials and for matching when repairing castings after welding. • AC/DC reverse polarity (electrode +)

PRODUCT	3/32"	3/32"	1/8"	1/8"				
Uni-99	Part# L57F1 1 lb Pkg	Part# L57F5 10 lb Pkg	Part# L57H1 1 lb Pkg	Part# L57H5 10 lb Pkg				

Uni-55 A Nickel-Iron type electrode for welding cast iron in all positions. Used for repairs on engine blocks, manifolds, gear housings, transmission cases and gear teeth • Strong, crack resistant, porosity free welds • Smooth, stable arc when using AC • Machinable deposits

PRODUCT	3/32"	3/32"	1/8"	1/8"				
Uni-55	Part# L67F1 1 lb Pkg	Part# L67F5 10 lb Pkg	Part# L67H1 1 lb Pkg	Part# L67H5 10 lb Pkg				

Uni-4043 A premium Aluminum welding electrode for heat treated Aluminum, heavy castings, long joint and repairing cracks, filling holes and building up missing sections. Use as a brazing alloy.

PRODUCT	3/32"	1/8"						
Uni-4043	Part# PB7F4 5 lb Pkg	Part# PB7H4 5 lb Pkg						

StainMIG308L/StainTIG308L Gas shielded all position flux cored wire • Low Carbon content minimizes carbide precipitation • Ferrite values become lower as impact toughness increases

PRODUCT	.030"	.035"	.035"					
StainMIG 308L	Part# J84I2 2 lb Spool	Part# J84P2 2 lb Spool	Part# J84PC 25 lb Spool					

PRODUCT	1/16"	3/32"	1/8"	.045"				
StainTIG 308L	Part# J8AD5 36" 10 lb Pkg	Part# J8AF5 36" 10 lb Pkg	Part# J8AH5 36" 10 lb Pkg	Part# J8AR5 36" 10 lb Pkg				

NON-FERROUS WELDING ALLOYS

Cont'd from page 127

StainTIG 316L A stainless steel, gas shielded flux cored wire for welding type 316, 316L stainless steels. Contains molybdenum that resists pitting induced by sulfuric acids, chlorides and cellulose solutions.
• Used in rayon, dye and paper making industries

PRODUCT	1/16"	3/32"	1/8"					
StainTIG 316L	Part# JCAD5 10 lb Pkg	Part# JCAF5 10 lb Pkg	Part# JCAH5 10 lb Pkg					

AlumaMIG 4043/AlumaTIG 4043 General purpose Aluminum welding wire • Excellent crack sensitivity • Produces bright weld deposits • Excellent fluidity (wetting) due to high Silicon content
• Spray and flame metallizing wire • Non-heat treatable

PRODUCT	3/64"	3/64"	.030"	.035"	.035"			
AlumaMIG 4043	Part# P64C1 1 lb Spool	Part# P64CY 13 lb Spool	Part# P64I1 1 lb Spool	Part# P64P1 1 lb Spool	Part# P64PY 13 lb Spool			

PRODUCT	1/16"	3/32"	1/8"					
AlumaTIG 4043	Part# P6AD4 36" 5 lb Pkg	Part# P6AF4 36" 5 lb Pkg	Part# P6AH4 36" 5 lb Pkg					

AlumaMIG 5356/AlumaTIG 5356 Aluminum welding wire used mainly for welding Aluminum of like composition • Deposits are high strength and very ductile • Excellent color match after anodizing
• Moderate high strength capabilities • Non-heat treatable

PRODUCT	3/64"	3/64"	.030"	.035"	.035"			
AlumaMIG 5356	Part# P84C1 1 lb Spool	Part# P84CY 13 lb Spool	Part# P84I1 1 lb Spool	Part# P84P1 1 lb Spool	Part# P84PY 13 lb Spool			

PRODUCT	1/16"	3/32"	1/8"					
AlumaTIG 5356	Part# P8AD4 36" 5 lb Pkg	Part# P8AF4 36" 5 lb Pkg	Part# P8AH4 36" 5 lb Pkg					



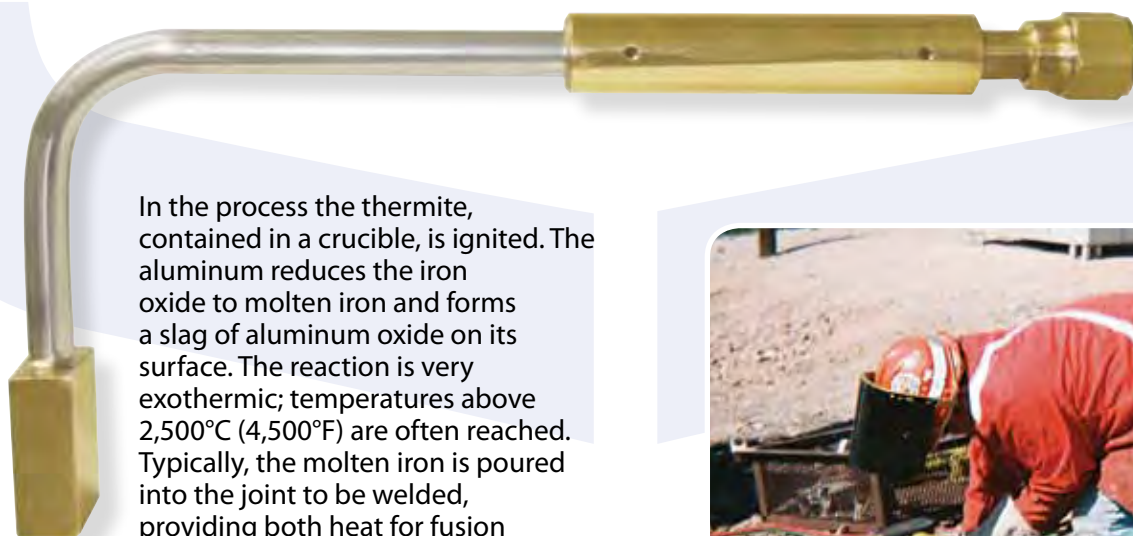
THERMITE TIPS



THERMITE WELDING TIPS

Join sections of train track by preheating rail ends in preparation for the thermite charge. Thermite [from Thermit, a trade name], is a mixture of powdered or granular aluminum metal and powdered iron oxide. When ignited, it gives off large amounts of heat. It is used in welding large parts, e.g., castings, shafts, pipes, and steel rails.

TWN-5



In the process the thermite, contained in a crucible, is ignited. The aluminum reduces the iron oxide to molten iron and forms a slag of aluminum oxide on its surface. The reaction is very exothermic; temperatures above 2,500°C (4,500°F) are often reached. Typically, the molten iron is poured into the joint to be welded, providing both heat for fusion and filler metal. Excess metal may be removed when the weld cools.

TIP END



WH360



Uniweld Thermite Welding Tips fit Uniweld V-style Heavy Duty WH360, WH360L and 72L9 Welding Handles [see pg 11].



**THERMITE
WELDING TIP**

**FUEL
GAS**

PREHEAT

**OXYGEN
PSI FLOW**

**FUEL
PSI FLOW**

**PART# TWN-5
UPC# 31015**

PROPANE

5 MINUTES

65 300

15 80



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