



OUTFITS CUTTING & WELDING

V-STYLE
TUBE MIX

ROUGHNECK HEAVY DUTY

The Uniweld Roughnecks are complete super heavy duty oxy-fuel or propane outfits for cutting, welding, brazing and 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.

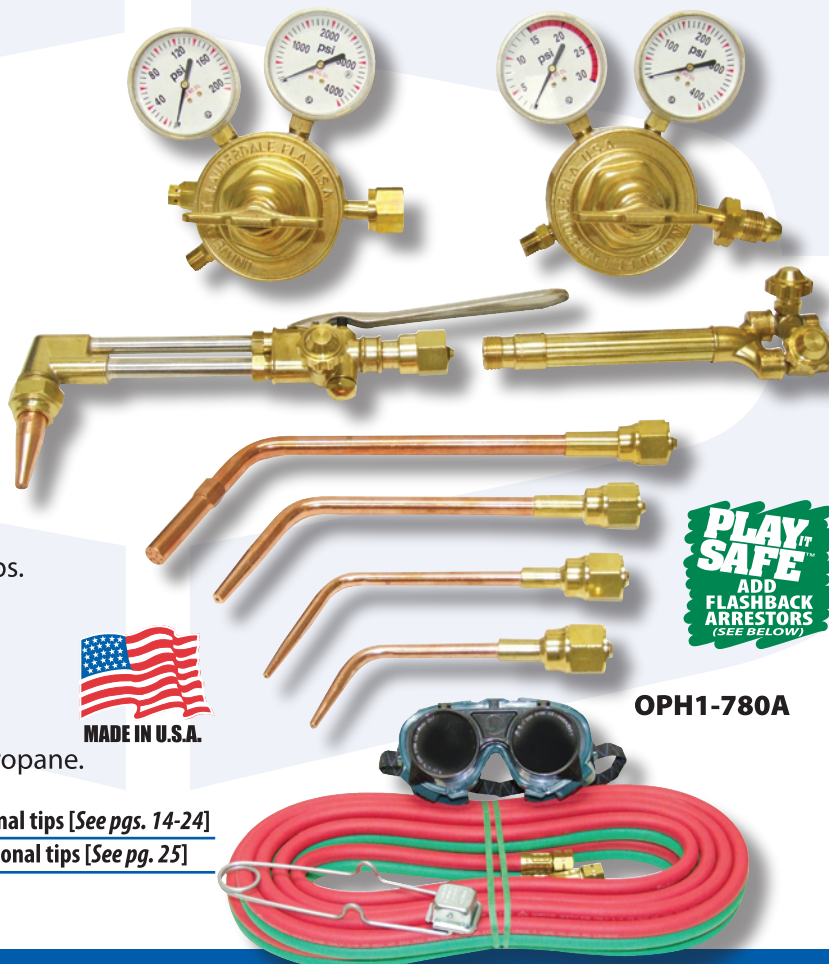
WH360 WELDING HANDLE can be used with most fuel gases and acetylene for heating, brazing, welding and other flame processes.

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



PLAY IT SAFE
ADD FLASHBACK ARRESTORS (SEE BELOW)



OPH1-780A

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" GOGGLES, 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
NEW! 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" GOGGLES, LIGHTER
PART#KVH780A-4 UPC#80081	WH360	780A	1-101-1	TYPE 4-2	TYPE 11-8	RV8010 CGA540	RV8011 CGA510	NO ACCESSORIES
NEW! ROUGHNECK PROPANE H.D.	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" GOGGLES, LIGHTER
PART#KVP780A-4 UPC# 80083	WH360	780A	GPN-2	- -	TYPE 12-8	RV8010 CGA540	RV8012 CGA510	NO ACCESSORIES

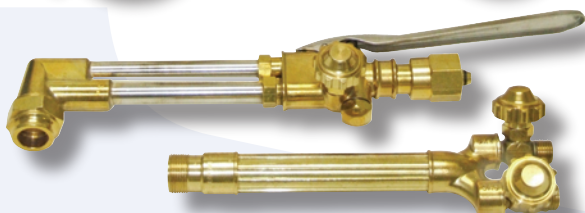
ROUGHNECK AND ROUGHNECK II (EXCEPT ROUGHNECK PROPANE) OUTFITS AVAILABLE WITH CGA300 ACETYLENE REGULATORS - ORDER BY ADDING (-1) TO END OF PART#

*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. 104]



KV780A

FABRICATOR
HEAVY DUTY

MADE IN U.S.A.

The Uniweld Fabricator is a basic heavy duty oxy-fuel outfit for cutting, welding, brazing and 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 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: 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 DUTYWELDING
HANDLECUTTING
ATTACHMENTOXYGEN*
REGULATOR
5-125 PSIGACETYLENE*
REGULATOR
2-15 PSIG

GAUGES

PART# KV780A
UPC# 80004

WH360

780A

RV8010
CGA540

RV8011
CGA510

2-1/2"

Add (FB) to Part# to include
U.L. Listed Flashback Arrestors
on the Welding Handle.
[See pg. 104]

PART# KR780A
UPC# 81100

WH360

780A

RUH8310
CGA540

RUH8311
CGA510

2-1/2"

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

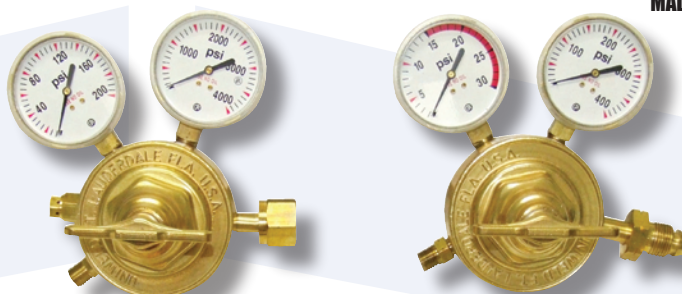
PROFESSIONAL
HEAVY DUTY

The Uniweld Professional is a basic heavy duty oxy-fuel cutting outfit.

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

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

**RV SERIES have stainless steel diaphragms and accessibility to the seat from the rear.



KV830-21



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



MADE IN U.S.A.

PROFESSIONAL
HEAVY DUTYHAND
CUTTING
TORCHOXYGEN*
REGULATOR
5-125 PSIGACETYLENE*
REGULATOR
2-15 PSIG

GAUGES

PART# KV830-21
UPC# 80100

830-21
90°

RV8010
CGA540

RV8011
CGA510

2-1/2"

PART# KV850-21
UPC# 80200

850-21
90°

RV8010
CGA540

RV8011
CGA510

2-1/2"

PROFESSIONAL
HEAVY DUTYHAND
CUTTING
TORCHOXYGEN*
REGULATOR
5-125 PSIGACETYLENE*
REGULATOR
2-15 PSIG

GAUGES

PART# KR830-21
UPC# 81200

830-21
90°

RUH8310
CGA540

RUH8311
CGA510

2-1/2"

PART# KR850-21
UPC# 81300

850-21
90°

RUH8310
CGA540

RUH8311
CGA510

2-1/2"

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

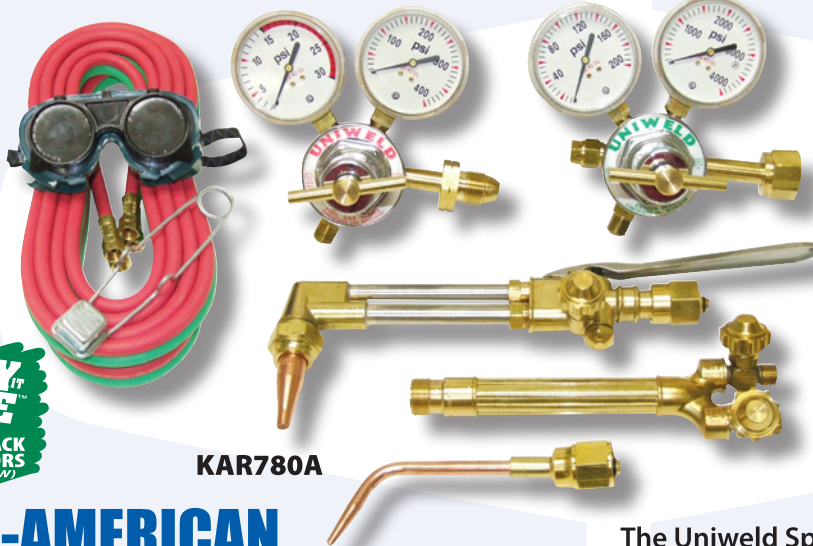
*Dual scale gauges and other regulator connections available upon request. [See pgs. 97, 98]

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. 104]



OUTFITS CUTTING & WELDING

V-STYLE
TUBE MIX



KAR780ASPF-4



KAR780A

THE SPECIALIST HEAVY DUTY

ALL-AMERICAN HEAVY DUTY

The UniWeld All-American is a heavy duty oxy-fuel outfit for cutting, welding and 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.

The UniWeld Specialist is a heavy duty oxy-fuel outfit for cutting, welding and brazing. Oxygen and fuel 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]

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. 104]
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	BLACK PLASTIC TOOL BOX AND TRAY TFA100 & TFA101 FLASHBACK ARRESTORS

Optional Twin Hose Set, "B" fittings [Pg. 103]; Spiral Tip Cleaner [Pg. 106]; Safety Goggles [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 oxy-acetylene 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]

16" X 4"
PNEUMATIC
TIRESWELDED STEEL
FRAME
SEE-THRU
GRATES1000 LB.
CAPACITY
LIFTING
HOOKPart# 509
[cart only]
UPC# 30016Part# 509FW
[cart with firewall]
UPC# 30019

80060



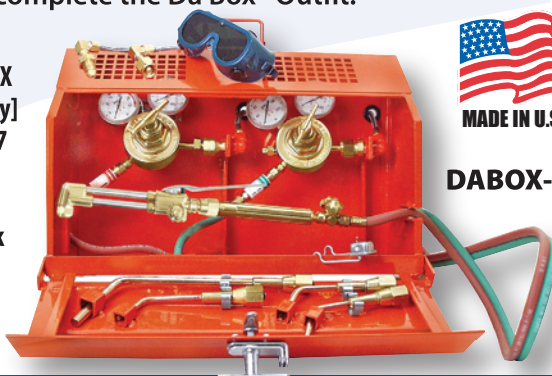
ROLLIN' ROUGHNECK HEAVY DUTY	WELDING HANDLE	CUTTING ATTACHMENT	CUTTING TIP	WELD/BRAZE TIPS	HEATING TIP	OXYGEN* REGULATOR 5-125 PSIG	ACETYLENE* REGULATOR 2-15 PSIG	ROLLIN' ROUGHNECK CART
PART# 80060 UPC# 80060	WH360	780A	1-101-1	TYPE 4 -1, -3, -5	TYPE 11-8	RV8010 CGA540	RV8011 CGA510	509 W/O CYLINDERS
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. 103], GOGGLES SHADE #5 [Pg. 105], FLINT LIGHTER [Pg. 105], TORCH FLASHBACK ARRESTORS [Pg. 104] 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 duty gauge steel construction. Add the desired braided stainless steel hose pigtails to complete the Da Box® Outfit.

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



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

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-V UPC# 80400	WH360	780A	1-101-1	TYPE 4 -1, -3, -5	TYPE 11-8	RV8010 CGA540	RV8011 CGA510	DA-BOX

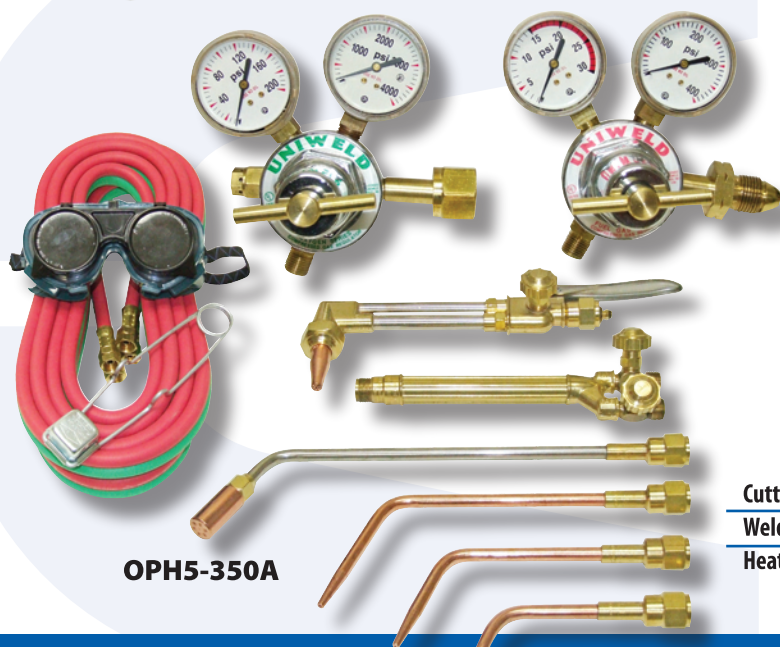
DA BOX-V INCLUDES: 25' TWIN HOSE, 1/4" "B" FITTINGS [Pg. 103], GOGGLES SHADE #5 [Pg. 105], FLINT LIGHTER [Pg. 105], CGA510 POL to CGA300 CA ADAPTOR [Pg. 97], REGULATOR FLASHBACK ARRESTOR INSTALLED [Pg. 104]

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



OUTFITS CUTTING & WELDING

V-STYLE
TUBE MIX



OPH5-350A

ALL-TRADES
MEDIUM DUTY



The Uniweld All-Trades is a medium duty oxy-fuel outfit for cutting, welding, brazing and 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, 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. 104]

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

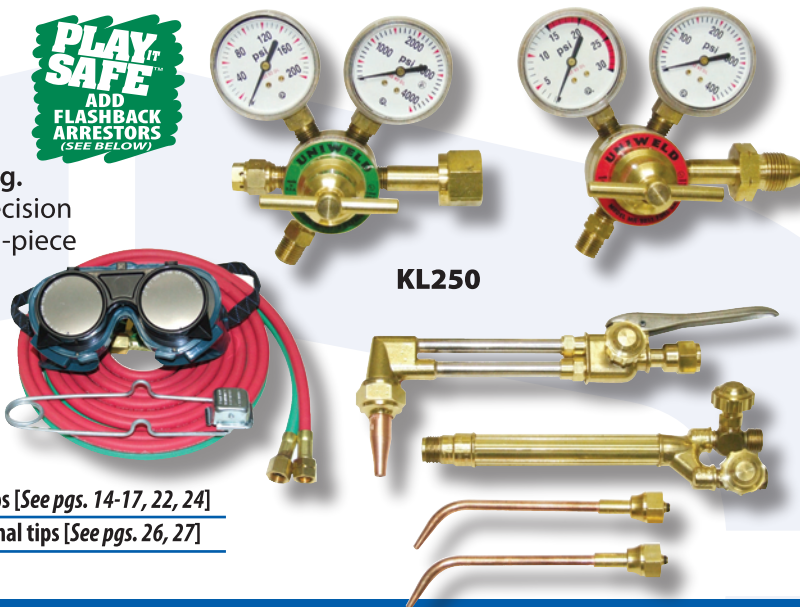


The Uniweld All-Trades II is a medium duty oxy-fuel outfit for cutting, welding and brazing.

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, 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. 104]

*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 Wurk 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 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, 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]



WURKS-V



**Look for this
12 pack display
at your local
distributor**



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

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

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	ACCESSORIES†
PART# WURKS-V UPC# 82150	WH350	CA350	3-101-0	TYPE 13-2	MR8210 CGA540	MR8211 CGA510	BLACK PLASTIC	12.5' TWIN HOSE 3/16", "B"

†ACCESSORIES INCLUDE: GOGGLES, SHADE #5 [Pg. 105], FLINT LIGHTER [Pg. 105], TIP CLEANER SET [Pg. 106], LEATHER WELDING GLOVES [Pg. 105]

*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. 104]



OUTFITS CUTTING & WELDING

V-STYLE
TUBE MIX

ALL-AMERICAN MEDIUM DUTY

The Uniweld All-American is a medium duty oxy/fuel 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 an 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)



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



KR350

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 M.D.	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. 104]

ALL-AMERICAN OXYACETYLENE OUTFIT

KL350-P
KL350-P-TU

The UniWeld Oxyacetylene Outfit is a portable oxy/fuel outfit for cutting, welding and 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 tip (rosebud)
DO NOT USE THESE HEATING TIPS WITH THIS TOTE OR ANY OTHER MC CYLINDER SYSTEM



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. 104]



OUTFITS CUTTING & WELDING

V-STYLE
TUBE MIX

UNIWELD TOTE MEDIUM DUTY

The Uniweld Tote is a portable oxy/fuel outfit for cutting, welding and brazing. Select either 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 prevalent in the HVAC/Plumbing industry.



KL250-C-TU

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

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



KL250-P-TU



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, packaged 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	RS0B 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	RS0B 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	RS0B 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	RS0B 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. 104]

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 pg. 11]

PART#
UPC#

780A
02401

780
02400

780B
02402

3-780A
02451

3-780
02450

CA350
02100

CA250
02000

CA550
02600

CA100**
02700

LENGTH

10-1/2"

10-1/2"

10-1/2"

10-1/2"

10-1/2"

8"

8"

8"

7"

WEIGHT

32 OZ.

32 OZ.

32 OZ.

31 OZ.

31 OZ.

15 OZ.

15 OZ.

15 OZ.

10.8 OZ.

HEAD ANGLE

90°

75°

180°

90°

75°

90°

90°

90°

90°

CUTTING CAPACITY*

8"

8"

8"

7"

7"

6"

6"

2"

2"

ACETYLENE TIP SERIES

1-101

1-101

1-101

3-101

3-101

3-101

3-101

5-101

CT100

COMPATIBLE
WELDING
HANDLES

WH360
WH360L
72L9
72L11

WH360
WH360L
72L9
72L11

WH360
WH360L
72L9
72L11

WH360
WH360L
72L9
72L11

WH360
WH360L
72L9
72L11

WH350

WH250
WH550
71

WH550
WH250
71

WH550
WH250
71

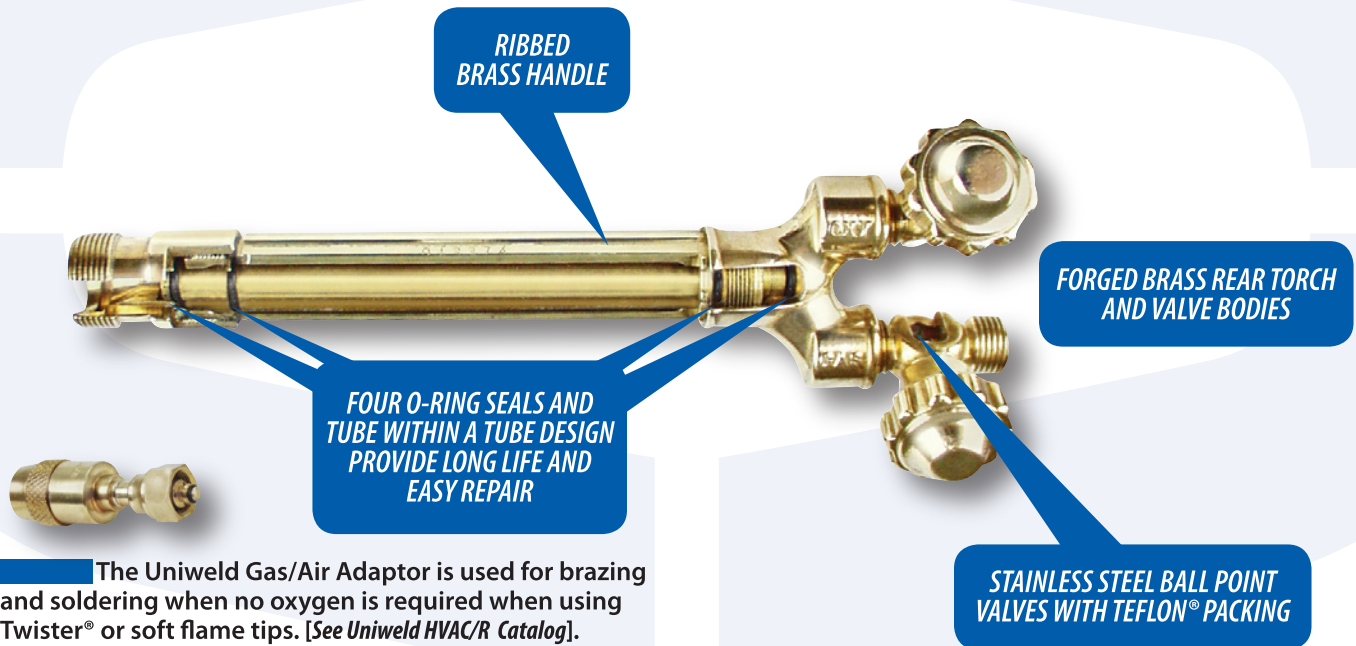
*SEE PAGES 14-24, 63 FOR ALL GASES CUTTING TIPS AND SPECIAL PURPOSE TIP SELECTION



WELDING HANDLES

V-STYLE

WH360



The Uniweld Gas/Air Adaptor is used for brazing and soldering when no oxygen is required when using 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].



[See pg. 10]

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"	8-1/2"	8-1/2"	8-1/2"	6"
WEIGHT	18 OZ.	24 OZ.	18 OZ.	23 OZ.	12 OZ.	12 OZ.	11 OZ.	8 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"	1/4"	1/4"	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°)	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. 104]

830-21 TUBE MIX

PRECISION
SEATS

CNC PRECISION
MACHINED
FORGED BRASS HEAD

NICKEL ALLOY GAS TUBES
FOR MAXIMUM STRENGTH AND
HEAT DISSIPATION

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

HEAVY DUTY RIBBED
ERGONOMIC HANDLE

STAINLESS STEEL
OXYGEN CUTTING LEVER

FORGED
BRASS BODY

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

FIELD
REPLACEABLE
EXTERNAL
CHECK VALVES†

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

HEAD
ANGLES

90°

75°

180°

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**

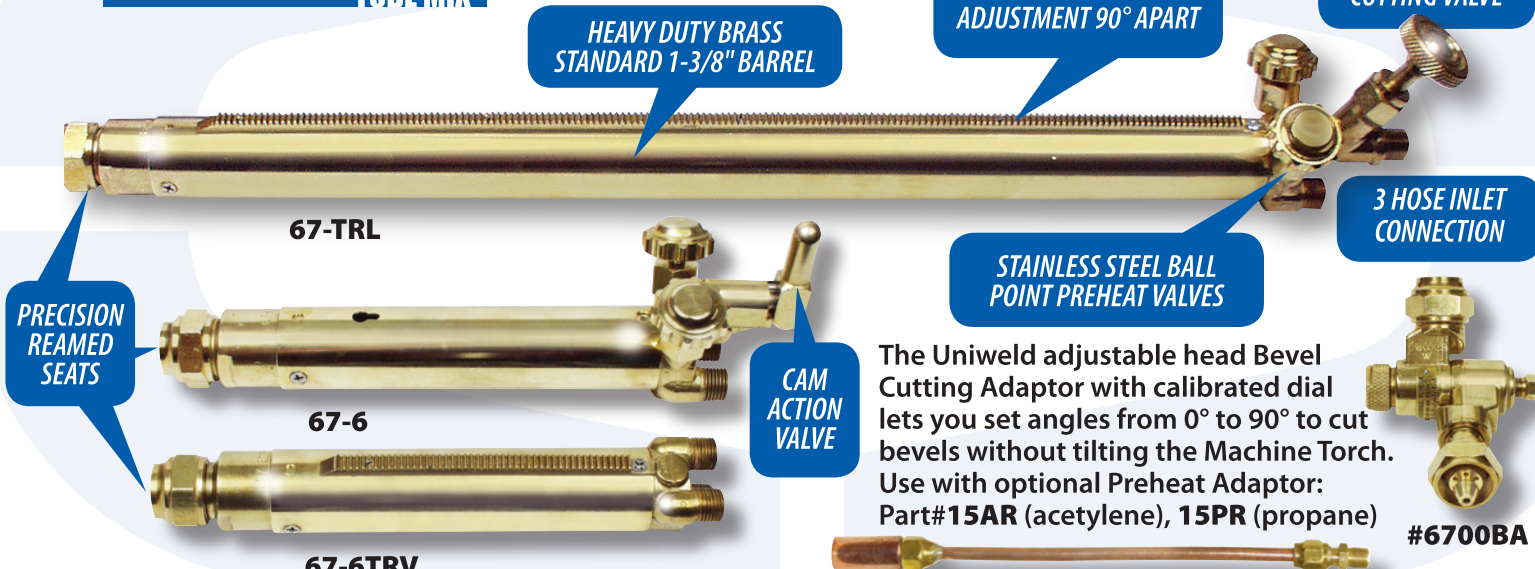
Hand Cutting Torches come with Check Valves installed. Add (FB) to Part# to substitute U.L. Listed Flashback Arrestors for Check Valves. Uniweld Check Valves & Flashback Arrestors are both field replaceable [See pg. 104]



TORCHES MACHINE CUTTING

V-STYLE

67 & 67F SERIES TUBE MIX



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

#6700BA

67 SERIES FOR ACETYLENE ONLY

PART# UPC#	67-6 04301	67 04304	67-6R 04302	67-R 04305
BARREL LENGTH	6"	10"	6"	10"
TWO HOSE WITH CAM ACTION OXYGEN CUTTING VALVE	YES	YES	YES	YES
RACKING LENGTH	N/A	N/A	5"	9"
CUTTING CAPACITY*	8"	8"	8"	8"

PART# UPC#	67-T 04306	67-TL 04308	67-6TR 04303	67-TR 04307	67-TRL 04309
BARREL LENGTH	10"	18"	6"	10"	18"
THREE HOSE WITH QUICK OPENING OXYGEN VALVE	YES	YES	YES	YES	YES
RACKING LENGTH	N/A	N/A	5"	9"	17"
CUTTING CAPACITY*	12"	12"	12"	12"	12"

PART# UPC#	67-6TV 04320	67-6TRV 04300
BARREL LENGTH	6"	6"
THREE HOSE VALVELESS	YES	YES
RACKING LENGTH	N/A	5"
CUTTING CAPACITY*	12"	12"

67F SERIES FOR FUEL GAS ONLY

PART# UPC#	67F-6 04311	67F 04314	67F-6R 04312	67F-R 04315
BARREL LENGTH	6"	10"	6"	10"
TWO HOSE WITH CAM ACTION OXYGEN CUTTING VALVE	YES	YES	YES	YES
RACKING LENGTH	N/A	N/A	5"	9"
CUTTING CAPACITY*	8"	8"	8"	8"


PART# UPC#	67F-T 04316	67F-TL 04318	67F-6TR 04313	67F-TR 04317	67F-TRL 04319
BARREL LENGTH	10"	18"	6"	10"	18"
THREE HOSE WITH QUICK OPENING OXYGEN VALVE	YES	YES	YES	YES	YES
RACKING LENGTH	N/A	N/A	5"	9"	17"
CUTTING CAPACITY*	12"	12"	12"	12"	12"

PART# UPC#	67F-6TV 04321	67F-6TRV 04310
BARREL LENGTH	6"	6"
THREE HOSE VALVELESS	YES	YES
RACKING LENGTH	N/A	5"
CUTTING CAPACITY*	12"	12"


Hose connections: "B" 9/16"-18. Racks [R] supplied with standard 32 pitch (10.12 teeth/inch). 24 pitch (7.65 teeth/inch) available on request.

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

ACETYLENE

USE WITH SERIES			APPLICATION	TIP STYLE	ONE PIECE								
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED	KERF WIDTH	
							PSIG	SCFH	PSIG	SCFH	I.P.M.		
	780	830, 850 EC72780	67 SERIES	GENERAL PURPOSE CUTTING MACHINE CUTTING	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

1-101
[ONE PIECE]

USE WITH SERIES			APPLICATION	TIP STYLE	ONE PIECE								
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE	SPEED	KERF WIDTH		
							PSIG	SCFH	PSIG	SCFH	I.P.M.		
	780	830, 850 EC72780	67 SERIES	GENERAL CUTTING CLOSE QUARTERS HAND AND MACHINE CUTTING	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

1-101-30 [30°]
[ONE PIECE]


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.

1-101-30 (30°)
[ONE PIECE]

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	TIP STYLE	ONE PIECE							
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
							PSIG	SCFH	PSIG	SCFH		
<div>CA250 CA350 3-780</div> <div></div> <div>3-101 [ONE PIECE]</div>	EC72740	N/A	GENERAL PURPOSE CUTTING	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

3-101
[ONE PIECE]



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







TIPS CUTTING


V-STYLE

ACETYLENE

USE WITH SERIES			APPLICATION	TIP STYLE		ONE PIECE							
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH	
							PSIG	SCFH	PSIG	SCFH			
CA550	N/A	N/A	GENERAL PURPOSE CUTTING	5-101-00	1/4"	67	20/25	30/35	5	6	27/30	.05	
 5-101 [ONE PIECE] 				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	TIP STYLE		ONE PIECE							
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH	
							PSIG	SCFH	PSIG	SCFH			
<div>780</div> <div>830, 850 EC72780</div> <div></div> <div></div> <div>1-108 [ONE PIECE]</div>	830, 850 EC72780	67 SERIES	REMOVING BOILER TUBES	WORK IN CONFINED SPACES	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	TIP STYLE		ONE PIECE						
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH
							PSIG	SCFH	PSIG	SCFH		
CA250, CA350 3-780	EC72740	N/A	REMOVING BOILER TUBES TIGHT SPACES	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 <i>The preheat flame ports and the cutting oxygen orifice are sized for the thickness range of metal that the tip is designed to cut.</i>								
3-108 [ONE PIECE]												

USE WITH SERIES			APPLICATION	TIP STYLE		ONE PIECE							
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		ACETYLENE		SPEED I.P.M.	KERF WIDTH	
							PSIG	SCFH	PSIG	SCFH			
780	830, 850 EC72780	N/A	DRAG TYPE FOR HAND CUTTING AND TRIMMING	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 <i>Cutting tips are precision machined copper-alloy parts of various designs and sizes. They are held in the cutting torch by a tip nut.</i>									
1-110 [ONE PIECE]													

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 HAND CUTTING ATTACHMENT MACHINE CUTTING TORCHES MACHINE CUTTING TORCHES			APPLICATION	TIP STYLE	ONE PIECE CUTTING OXYGEN						SPEED I.P.M.	KERF WIDTH
CUTTING ATTACHMENT	CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	ACETYLENE PSIG	SCFH		
780	830, 850 EC72780	67 SERIES	RIVET HEADS	1-112-0	3/8"	60	25/30	55/60	5	8	24/28	.06
			TRIMMING CUTTING	1-112-0	1/2"	60	30/35	60/65	5	10	20/24	.06
				1-112-2	1"	53	35/40	140/150	6	16	15/19	.09
				1-112-2	1-1/2"	53	40/45	150/160	7	18	13/17	.09
				1-112-4	3"	45	40/50	270/320	10	30	9/12	.12



1-112 [ONE PIECE]

USE WITH SERIES HAND CUTTING ATTACHMENT MACHINE CUTTING TORCHES MACHINE CUTTING TORCHES			APPLICATION	TIP STYLE	ONE PIECE CUTTING OXYGEN						SPEED I.P.M.	KERF WIDTH
CUTTING ATTACHMENT	CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	ACETYLENE PSIG	SCFH		
CA250	EC72740	N/A	CUTTING CLOSE TO BULKHEADS	3-112-1	3/4"	56	30/35	80/85	5	13	17/21	.07
CA350				3-112-2	1"	53	35/40	140/150	6	16	15/19	.09
3-780			RIVET HEADS	3-112-2	1-1/2"	53	40/45	150/160	7	18	13/17	.09



3-112 [ONE PIECE]

TECH TIP

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

USE WITH SERIES HAND CUTTING ATTACHMENT MACHINE CUTTING TORCHES MACHINE CUTTING TORCHES			APPLICATION	TIP STYLE	ONE PIECE CUTTING OXYGEN						SPEED I.P.M.	KERF WIDTH
CUTTING ATTACHMENT	CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	ACETYLENE PSIG	SCFH		
780	830, 850 EC72780	N/A	GOUGING	1-118-0	3/8"	60	25/30	55/60	5	8	24/28	.06
			REMOVING WELDS	1-118-0	1/2"	60	30/35	60/65	5	10	20/24	.06
				1-118-2	1"	53	35/40	140/150	6	16	15/19	.09
				1-118-2	1-1/2"	53	40/45	150/160	7	18	13/17	.09
				1-118-4	3"	45	40/50	270/320	10	30	9/12	.12
				1-118-6	6"	31	45/55	500/600	13	44	6/8	.18
				1-118-6	8"	31	50/80	500/600	14	50	5/6	.19
				1-118-8	12"	20	55/85	900/1000	15	62	3/5	.41



1-118 [ONE PIECE]

USE WITH SERIES HAND CUTTING ATTACHMENT MACHINE CUTTING TORCHES MACHINE CUTTING TORCHES			APPLICATION	TIP STYLE	ONE PIECE CUTTING OXYGEN						SPEED I.P.M.	KERF WIDTH
CUTTING ATTACHMENT	CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	ACETYLENE PSIG	SCFH		
CA250	EC72740	N/A	GOUGING	3-118-2	1"	53	35/40	140/150	6	16	15/19	.09
CA350			RIVET WASHING	3-118-2	1-1/2"	53	40/45	150/160	7	18	13/17	.09
3-780			WELD PREP									



3-118 [ONE PIECE]

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 HAND CUTTING ATTACHMENT MACHINE CUTTING TORCHES MACHINE CUTTING TORCHES			APPLICATION	TIP STYLE	ONE PIECE CUTTING OXYGEN						SPEED I.P.M.	KERF WIDTH
CUTTING ATTACHMENT	CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	PSIG	SCFH	ACETYLENE PSIG	SCFH		
780A	830, 850 EC72780	67 SERIES	GENERAL CUTTING	1-101L-4	3"	45	40/50	270/320	10	30	9/12	.12
				1-101L-6	8"	31	50/80	500/600	14	50	5/6	.19



1-101L [ONE PIECE]-10" Length



TIPS CUTTING

V-STYLE

ACETYLENE

USE WITH SERIES			APPLICATION	TIP STYLE		SPECIALTY HEATING ASSEMBLY				
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	SPECIALTY HEATING TIP TURNS CUTTING TORCH INTO A MULTI FLAME HEATING TIP	PREHEAT OXYGEN		ACETYLENE		BTUs
						PSIG	SCFH	PSIG	SCFH	
N/A	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
				1-126-8		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



1-126
[TWO PIECE]



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 STYLE		TWO PIECE				
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS	
							PSIG	SCFH	PSIG	SCFH
780	830, 850 EC72780	67F SERIES	GENERAL PURPOSE	GPN-000	1/8"	71	20/25	12/15	5	5/6
				GPN-00	1/4"	67	20/25	22/26	5	5/7
			MACHINE CUTTING	GPN-0	3/8"	60	25/30	45/55	5	8/10
				GPN-0	1/2"	60	30/35	50/55	5	8/10
				GPN-1	3/4"	56	30/35	70/80	6	10/12
				GPN-2	1"	53	35/40	115/125	8	12/15
				GPN-2	1-1/2"	53	40/45	125/135	9	12/15
				GPN-3	2"	50	40/45	150/175	9	14/18
				GPN-3	2-1/2"	50	45/50	175/200	10	14/18
				GPN-4	3"	45	45/50	210/250	12	16/20
				GPN-5	4"	39	45/55	300/360	12	20/30
				GPN-5	5"	39	50/55	300/360	12	20/30
				GPN-6	6"	31	45/55	400/500	15	25/35
				GPN-6	8"	31	55/65	450/500	15	25/35
				GPN-8	12"	20	60/70	750/850	14	25/120



GPN
[TWO PIECE]



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 STYLE		TWO PIECE				
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS	
							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
				3-GPN-0	3/8"	60	25/30	45/55	5	8/10
				3-GPN-0	1/2"	60	30/35	50/55	5	8/10
				3-GPN-1	3/4"	56	30/35	70/80	6	10/12
				3-GPN-2	1"	53	35/40	115/125	8	12/15
				3-GPN-2	1-1/2"	53	40/45	125/135	9	12/15
				3-GPN-3	2"	50	40/45	150/175	9	14/18
				3-GPN-3	2-1/2"	50	45/50	175/200	10	14/18
				3-GPN-4	3"	45	45/50	210/250	12	16/20



3-GPN
[TWO PIECE]



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



TIPS CUTTING

V-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 STYLE		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	67F SERIES	RIVET REMOVAL

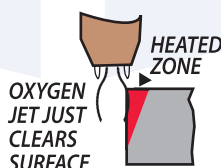


1-207 [ONE PIECE]



TIP STYLE		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	67F SERIES	BULKHEADS RIVET HEADS MACHINE CUTTING



1-212
[ONE PIECE]



TIP STYLE		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; and then the fuel gas valve.**

USE WITH SERIES			APPLICATION
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES	
780	830, 850 EC72780	67F SERIES	SCRAPING GOUGING WELD REMOVAL



1-234
[ONE PIECE]



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


TIP STYLE		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; and then the fuel gas valve.**

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

NATURAL GAS/PROPANE

USE WITH SERIES			APPLICATION	TIP STYLE	ONE 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		
780	830, 850 EC72780	67F SERIES	GOUGING	1-218-4	3"	45	45/50	210/250	9	22/110	8/11	.12
			WELD REMOVAL	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	-
1-218 [ONE PIECE]			RIVET WASHING	<div>TECH TIP</div> <div>Oxygen used for cutting should have a purity of 99.5% or higher. Lower purity reduces the efficiency of the cutting operation.</div>								

1-218 [ONE PIECE]


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	TIP STYLE	SPECIALTY HEATING ASSEMBLY			
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	SPECIALTY HEATING TIP TURNS CUTTING TORCH INTO A MULTI FLAME HEATING TIP		OXYGEN PSIG	FUEL GAS PSIG
N/A	830, 850	N/A	MULTIFLAME HEATING AT MAXIMUM PRESSURE	1-209N-10			70/80	12/15
				1-209N-12			70/80	12/15

(MFTN)


1-209N [ONE PIECE]



TECH TIP

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

PROPYLENE

USE WITH SERIES			APPLICATION	TIP STYLE	TWO PIECE						
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN PSIG	SCFH	FUEL GAS PSIG SCFH	SPEED I.P.M.	KERF WIDTH
780	830, 850 EC72780	67F SERIES	SCRAP AND BEVEL CUTTING	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

HPP [TWO PIECE]


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



TIPS CUTTING

V-STYLE

PROPYLENE

USE WITH SERIES			APPLICATION	TIP STYLE		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			
 GPP [TWO PIECE]	780	830, 850 EC72780	67F SERIES	GENERAL PURPOSE AND MACHINE CUTTING	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



**GPP
[TWO PIECE]**





USE WITH SERIES			APPLICATION	TIP STYLE		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		
780	830, 850 EC72780	67F SERIES	GENERAL PURPOSE AND MACHINE CUTTING	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



**3-GPP
[TWO PIECE]**



USE WITH SERIES			APPLICATION	TIP STYLE		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			
<div>780</div> <div>830, 850 EC72780</div> <div>67F SERIES</div> <div>GENERAL PURPOSE AND MACHINE CUTTING</div> <div></div> <div><div>MTHP</div><div>[TWO PIECE]</div></div> <div></div>				<div>[</div> MTHP-00	1/4"	N/A	85/98	68/75	5	65	20/30	.05	
					MTHP-00	3/8"	N/A	85/95	68/75	5	65	22/29	.05
					<div>[</div> MTHP-0	1/2"	N/A	85/95	110/120	5	65	20/28	.06
					MTHP-0	3/4"	N/A	85/95	110/120	5	65	18/26	.06
					<div>[</div> MTHP-1	1"	N/A	85/95	145/160	6	65	17/24	.07
					MTHP-1	1-1/2"	N/A	85/95	145/160	7	65	12/16	.07
					<div>[</div> MTHP-2	2"	N/A	85/95	230/250	9	65	12/15	.09
					MTHP-2	2-1/2"	N/A	85/95	230/250	10	65	10/13	.09
					MTHP-2	3"	N/A	85/95	230/250	10	65	9/12	.09
					<div>[</div> MTHP-3	4"	N/A	85/95	285/320	12	65	7/10	.11
					MTHP-3	5"	N/A	85/95	285/320	13	65	6/8	.11
					MTHP-3	6"	N/A	85/95	285/320	13	65	5/7	.11
					MTHP-4	8"	N/A	85/95	390/450	14	65	4/6	.14
					MTHP-5	10"	N/A	85/95	670/720	15	65	3/5	.18



**MTHP
[TWO PIECE]**



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

MAPP®/PROPYLENE

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

CA550 N/A N/A



5-200M [ONE PIECE]

GENERAL
PURPOSE
CUTTING

TIP STYLE

ONE PIECE

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

5-200M-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/MAPP®/PROPYLENE

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

780 830, 850 67F
EC72780 SERIESGPM
[TWO PIECE]GENERAL
PURPOSE
MACHINE
CUTTING

TIP STYLE

TWO PIECE

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

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
3-7803-GPM
[TWO PIECE]GENERAL
PURPOSE
CUTTING

TIP STYLE

TWO PIECE

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

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

V-STYLE

LIQUID AIR® FUEL GAS/MAPP®/PROPYLENE

USE WITH SERIES			APPLICATION	TIP STYLE		TWO PIECE				
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS	
							PSIG	SCFH	PSIG	SCFH
N/A	N/A	67 SERIES	HIGH SPEED MACHINE CUTS TO 10"	MTHM-00	1/4"	N/A	85/98	68/75	5	65
				MTHM-00	3/8"	N/A	85/95	68/75	5	65
				MTHM-0	1/2"	N/A	85/95	110/120	5	65
				MTHM-0	3/4"	N/A	85/95	110/120	5	65
				MTHM-1	1"	N/A	85/95	145/160	6	65
				MTHM-1	1-1/2"	N/A	85/95	145/160	7	65
				MTHM-2	2"	N/A	85/95	230/250	9	65
				MTHM-2	2-1/2"	N/A	85/95	230/250	10	65
				MTHM-2	3"	N/A	85/95	230/250	10	65
				MTHM-3	4"	N/A	85/95	285/320	12	65
				MTHM-3	5"	N/A	85/95	285/320	13	65
				MTHM-3	6"	N/A	85/95	285/320	13	65
				MTHM-4	8"	N/A	85/95	390/450	14	65
				MTHM-5	10"	N/A	85/95	670/720	15	65



**MTHM
[TWO PIECE]**



USE WITH SERIES			APPLICATION	TIP STYLE		TWO PIECE				
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS	
							PSIG	SCFH	PSIG	SCFH
780	830, 850 EC72780	67 SERIES	SCRAP CUTTING BEVELING PIERCING	HPM-4	3"	45	45/50	210/250	9	22/110
				HPM-6	6"	31	45/55	400/500	10	22/110
				HPM-6	8"	31	55/65	450/500	12	22/110
				HPM-8	12"	20	60/70	750/850	14	25/120



**HPM
[TWO PIECE]**



**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	TIP STYLE		ONE PIECE				
CUTTING ATTACHMENT	HAND CUTTING TORCHES	MACHINE CUTTING TORCHES		PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS	
							PSIG	SCFH	PSIG	SCFH
780	830, 850 EC72780	67 SERIES	GENERAL PURPOSE CUTTING	1-303MP-00	1/4"	67	20/25	22/26	5	5/7
				1-303MP-0	3/8"	60	25/30	45/55	5	8/10
				1-303MP-0	1/2"	60	30/35	50/55	5	8/10
				1-303MP-1	3/4"	56	30/35	70/80	6	10/12
				1-303MP-2	1"	53	35/40	115/125	8	12/15
				1-303MP-2	1-1/2"	53	40/45	125/135	9	12/15
				1-303MP-3	2"	50	40/45	150/175	9	14/18
				1-303MP-3	2-1/2"	50	45/50	175/200	10	14/18
				1-303MP-4	3"	45	45/50	210/250	12	16/20
				1-303MP-5	4"	39	45/55	300/360	12	20/30
				1-303MP-5	5"	39	50/55	300/360	12	20/30
				1-303MP-6	6"	31	45/55	400/500	15	25/35
				1-303MP-6	8"	31	55/65	450/500	15	25/35



**1-303MP
[ONE PIECE]**



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

LIQUID AIR® FUEL GAS/MAPP®/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 STYLE		ONE PIECE						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
1-312MP-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	67 SERIES	GOUGING SCARFING RIVET CUTTING

**1-318MP**
[ONE PIECE]

TIP STYLE		ONE PIECE						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
1-318MP-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 STYLE		ONE PIECE						
PART #	CUT METAL THICKNESS	CUT OXY DRILL SIZE	CUTTING OXYGEN		FUEL GAS		SPEED I.P.M.	KERF WIDTH
			PSIG	SCFH	PSIG	SCFH		
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

V-STYLE

OXYACETYLENE/HYDROGEN/MAPP®/PROPANE/NAT. GAS

APPLICATION
WELDING
HEATING
BRAZING
SOLDERING

1



TIP TYPE	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 TYPE1-0 TYPE1-1 TYPE1-2 TYPE1-3 TYPE1-4 TYPE1-5 TYPE1-6	TYPE1-00	TYPE1TE-00	N/A	5/16"-27(M,F)	1/64"- 3/64"	5	5	2.5	WH360 WH360L 72L9 72L11
	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	
	TYPE1-2	TYPE1TE-2	N/A	5/16"-27(M,F)	1/16"- 1/8"	5	5	10	
	TYPE1-3	TYPE1TE-3	N/A	3/8"-27(M,F)	1/8"- 3/16"	7	6	18	
	TYPE1-4	TYPE1TE-4	N/A	3/8"-27(M,F)	3/16"- 1/4"	10	7	28	
	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 TYPE	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 TYPE4-00 TYPE4-0 TYPE4-1 TYPE4-2 TYPE4-3 TYPE4-4 TYPE4-5 TYPE4-6 TYPE4-7 TYPE4-8	TYPE4-000	TYPE4E-000	UM4-0	5/16"-27(M,F)	UP TO 1/32"	5	5	1.5	WH360 WH360L 72L9 72L11
	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	
	TYPE4-2	TYPE4E-2	UM4-1	5/16"-27(M,F)	1/16"- 1/8"	5	5	10	
	TYPE4-3	TYPE4E-3	UM4-3	3/8"-27(M,F)	1/8"- 3/16"	7	6	18	
	TYPE4-4	TYPE4E-4	UM4-4	3/8"-27(M,F)	3/16"- 1/4"	10	7	28	
	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 TYPE	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 TYPE13-00 TYPE13-0 TYPE13-1 TYPE13-2 TYPE13-3 TYPE13-4 TYPE13-5 TYPE13-6 TYPE13-7	TYPE13-000	TYPE13E-000	UM13-0	5/16"-27(M,F)	UP TO 1/32"	5	5	1.5	WH350
	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	
	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.

OXYACETYLENE/HYDROGEN/MAPP®/PROPANE/NAT.GAS

TIP TYPE	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 17	TYPE17-000	TYPE17E-000	UM17-000	1/4"-27(M,F)	UP TO 1/32"	5	5	1.5	71 WH250 WH550
	TYPE17-00	TYPE17E-00	UM17-00	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	UM17-1	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	



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.

UM4 MIXER

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

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 using Uniweld tip cleaners. 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

V-STYLE

OXYACETYLENE/HYDROGEN/MAPP®/PROPANE/NAT. GAS

TIP TYPE	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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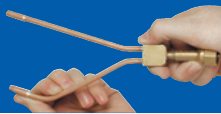
FLEXIBLE TIPS

APPLICATION

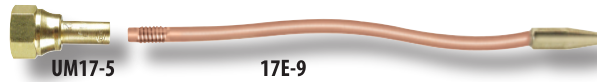
HEATING
BRAZING
SOLDERING

17

13

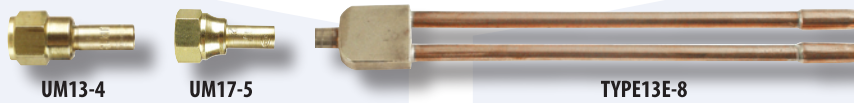


TYPE17-9	TYPE17E-9	UM17-5	5/16"-27(M,F)	1/32"- 5/64"	5	5	4
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71
WH250
WH550

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

TIP TYPE	ACETYLENE CONSUMPTION SCFH	OXYGEN PRESSURE (PSIG)	ACETYLENE/FUEL PRESSURE (PSIG)	OVERALL LENGTH	REPLACEMENT MIXER AND NUT	BRAZING COPPER TUBING	USE WITH WELDING HANDLE #
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TUNING FORK TIP™

REMOVE
HEAT PUMP
REVERSING VALVES

17



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.

TYPE17TFT	5-10	10	7	8"	UM17-5	7/8"
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71
WH250
WH550

TIP TYPE	ACETYLENE CONSUMPTION SCFH	OXYGEN PRESSURE (PSIG)	ACETYLENE/FUEL PRESSURE (PSIG)	OVERALL LENGTH	WELDING METAL THICKNESS	BRAZING COPPER TUBING	USE WITH WELDING HANDLE #
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MICRO 6000® TIPS

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

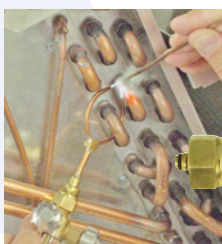
MTW-1	2-3	5	5	3"	3/64"	1/2"
MTW-2	2-4	5	5	3"	5/64"	1"
MTT	4-6	5	5	4"	N/A	1"
MTR	4-8	5	5	4"	N/A	1 1/2"

71
WH250
WH550

APPLICATION

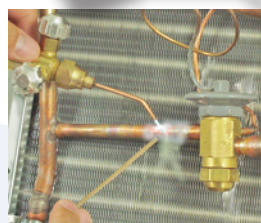
WELDING
HEATING
BRAZING
SOLDERING

MT

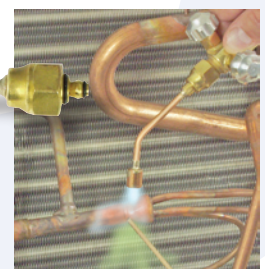


MTT
TWIN TIP

MTW
WELD TIP



MTR
ROSEBUD
TIP



OXYACETYLENE/HYDROGEN/MAPP®/PROPANE/NAT. GAS

TIP TYPE	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.

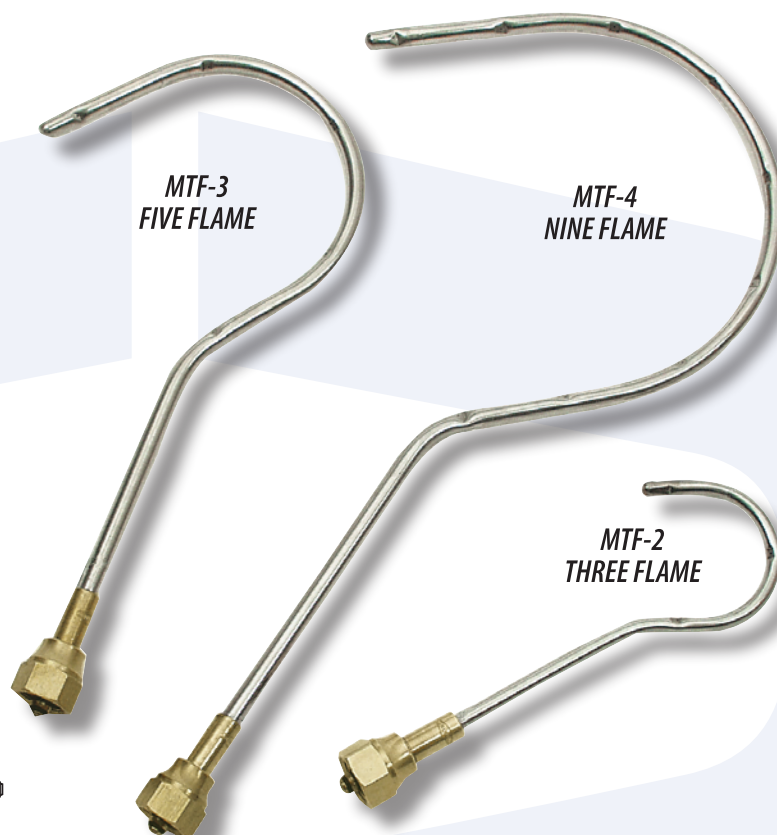
MTF-2	3-5	5	5	5-1/2"	7/8"	71
MTF-3	4-6	5	5	8-1/2"	1-5/8"	WH250
MTF-4	5-10	10	7	11"	2-5/8"	WH550

MAPP®/PROPANE CONSUMPTION SCFH	OXYGEN PRESSURE (PSIG)	MAPP®/PROPANE PRESSURE (PSIG)	OVERALL LENGTH	BRAZING COPPER TUBING	USE WITH WELDING HANDLE #
PART#					

CAP'N HOOK® High performance *MAPP®OR PROPANE/OXYGEN* brazing tips that provide precise concentrated heat up to 6000°F.

MTFM-2	3-6	8	5	5-1/2"	7/8"	71
MTFM-3	4-8	8	5	5-1/2"	1-5/8"	WH250
MTFM-4	5-12	10	7	11"	2-5/8"	WH550

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.

MTF-3
FIVE FLAMEMTF-4
NINE FLAMEMTF-2
THREE FLAME



TIPS BRAZING/HEATING

V-STYLE

OXYACETYLENE/HYDROGEN/MAPP®/PROPANE/NAT. GAS

TIP TYPE	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

TIP TYPE	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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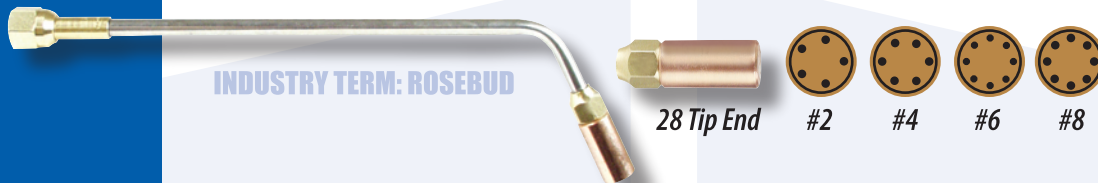
APPLICATION

(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

TIP TYPE	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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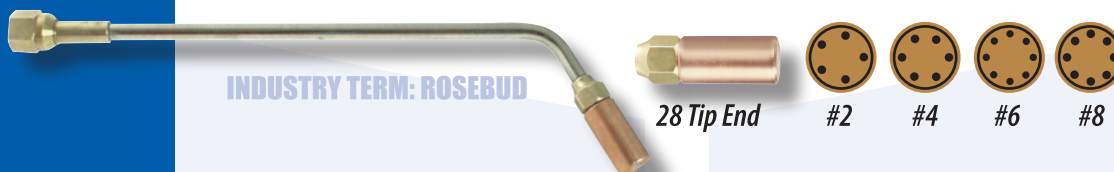
APPLICATION

(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

OXYACETYLENE

TIP TYPE	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)

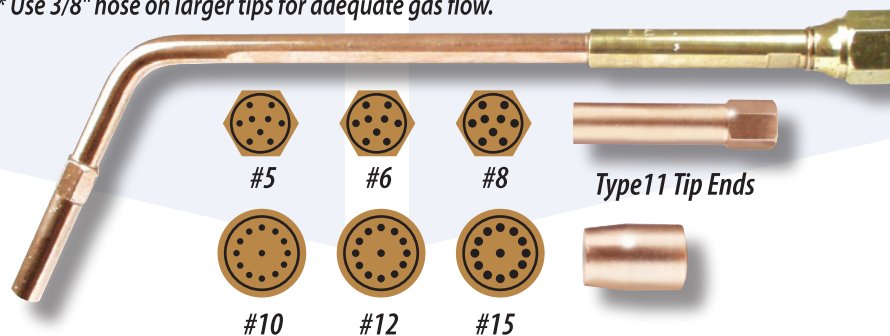
11

INDUSTRY TERM: ROSEBUD

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	7-10	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)	25-40	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.



WH360
WH360L
72L9
72L11

OXY/MAPP®/PROPANE/NATURAL GAS

TIP TYPE	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

(MFN)

12

INDUSTRY TERM: ROSEBUD

HEATING TIPS: COMPLETE with Tip End

TYPE12-8	TYPE12TE-8	UM12	7/16"-27(M,F)	20-30	10-20	10-35
TYPE12-10*	TYPE12TE-10	UM12-1	1/2"-27(M,F)	25-40	10-20	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.



WH360
WH360L
72L9
72L11



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

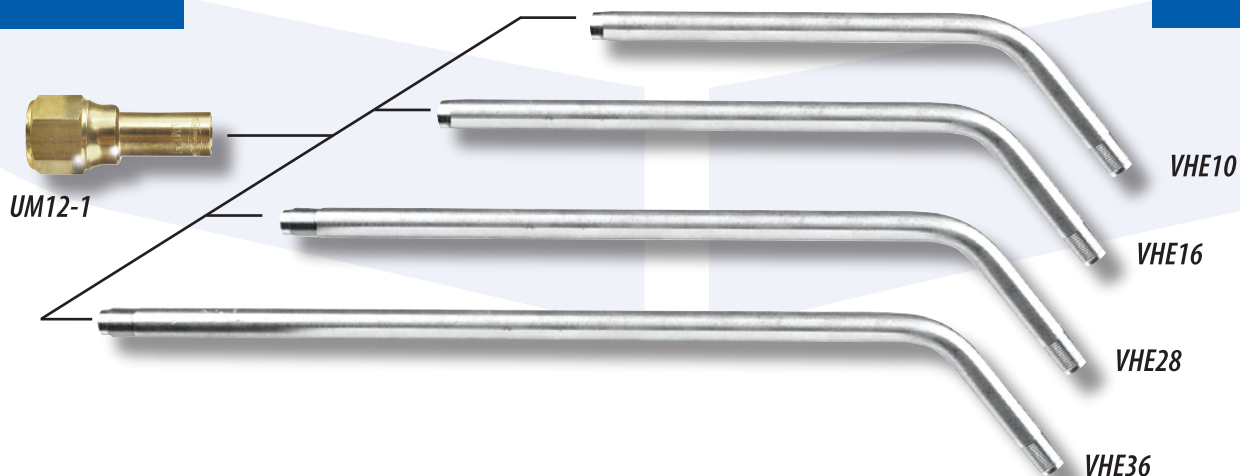
ELBOW TYPE	ELBOW ONLY PART #	LENGTH	ELBOW TIP END THREAD SPEC	MIXER ONLY PART #	ELBOW MIXER END THREAD SPEC	USE WITH WELDING HANDLE #
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VHE

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



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