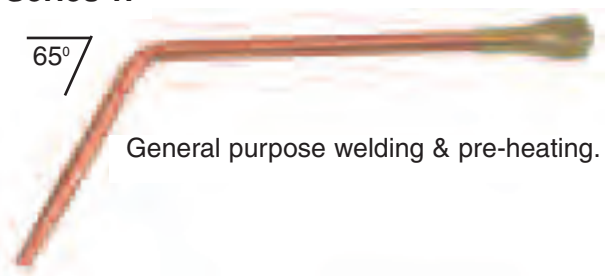



For Use with 300 Series Torch Handles

For **Welding Nozzle Information & Flow Data** see Section B pages 50-51.

HEAVY DUTY WELDING NOZZLE ORDERING INFORMATION


Model	Size	Part No.	Application, Description & Illustration
W	000	0323-0110 (Boxed)	<p>Series W</p>  <p>65°</p> <p>General purpose welding & pre-heating.</p> <p>Fuel Gas Usage - Acetylene, Hydrogen</p>
	00	0323-0111 (Boxed)	
	00	0387-0019 (Clamshell)	
	0	0323-0112 (Boxed)	
	0	0387-0020 (Clamshell)	
	1	0323-0120 (Boxed)	
	1	0387-0021 (Clamshell)	
	2	0323-0121 (Boxed)	
	2	0387-0022 (Clamshell)	
	3	0323-0122 (Boxed)	
	3	0387-0023 (Clamshell)	
	4	0323-0130 (Boxed)	
	4	0387-0024 (Clamshell)	
	5	0323-0131 (Boxed)	
	6	0323-0132 (Boxed)	
	7	0323-0140 (Boxed)	
	8	0323-0141 (Boxed)	
10	0323-0142 (Boxed)		

For **Welding Nozzle Information & Flow Data** see Section B pages 50-51.

ET	000	0311-0055	<p>One piece copper elbow tip Long cone flame.</p>  <p>Fuel Gas Usage - Acetylene, Hydrogen</p>
	00	0311-0056	
	0	0311-0057	
	1	0311-0058	
	2	0311-0059	
	3	0311-0572	
	4	0311-0573	
	5	0311-0574	
	6	0311-0575	
7	0311-0576		
8	0311-0577		

For Use with 300 Series Torch Handles

WELDING NOZZLE ORDERING INFORMATION

Model	Size	Part No.	Application, Description & Illustration
RTEN	6	0323-0284	<p>RTEN General purpose brazing & pre-heating. Long cone flame. Uses TEN tip .ends Fuel Gas Usage - N/G, Propane</p>
RTE	00 0 1 2 3 4 5 6 8 10	0323-0307 0323-0308 0323-0309 0323-0310 0323-0311 0323-0312 0323-0313 0323-0314 0323-0316 0323-0317	<p>RTE General purpose welding & heating Long cone flame. Uses replaceable tip ends</p>  <p>Fuel Gas Usage - Acetylene, Hydrogen</p>



Welding Nozzles • 300 Series





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

Uses Replacement Tip Ends; Types TE, TEN, TEMFA, TEMFN
See page 59.

OXY-ACETYLENE UNIVERSAL MIXER NOZZLE ORDERING INFORMATION

Torch Series	Type	Part No.	Fuel Gas Usage	Application, Description & Illustration
300	FE	0323-0191	Multi-Gas Fuel Service	Flexible elbow for special welding, brazing, & heating needs. Multi-fuel gas service. Uses replaceable tip ends

Type UM
Length 2-1/2"



OXY-ACETYLENE UNIVERSAL MIXER NOZZLE ORDERING INFORMATION

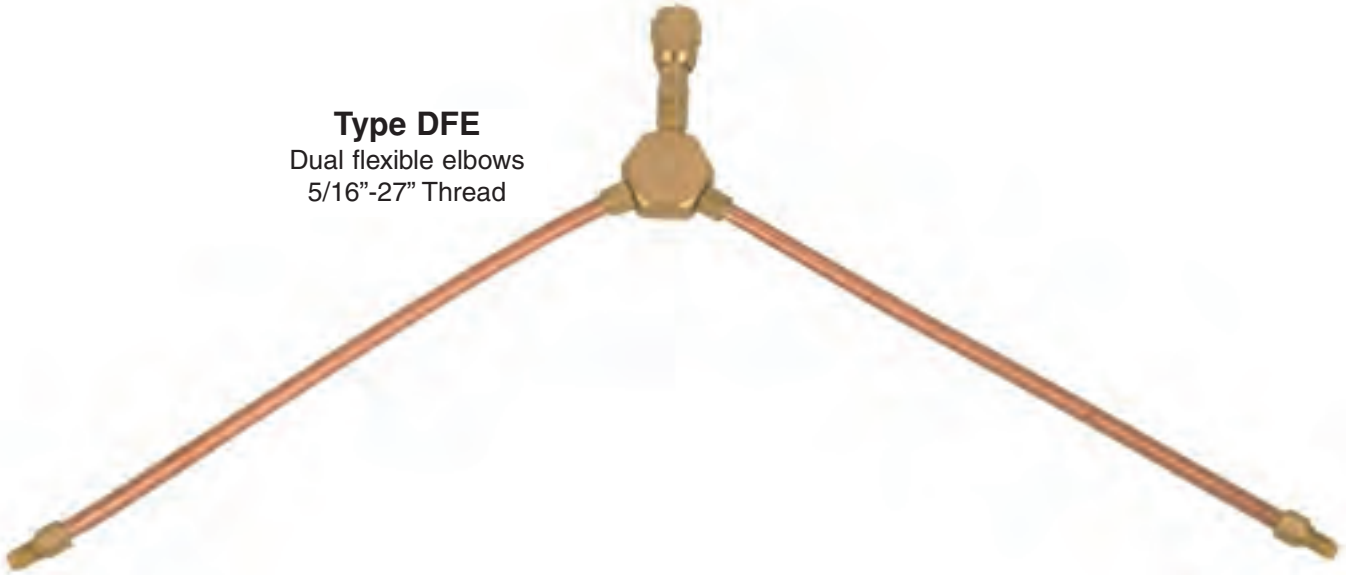
Torch Series	Type	Part No.	Fuel Gas Usage	Application, Description & Illustration
300	UM	0328-0011	Oxy-Acetylene	Oxy-Acetylene universal mixers used when exact performance & Individual nozzles are not needed. For use with replaceable elbow tips type ET.*
	4-UM	0328-0003		
	6-UM	0328-0008		
	10-UM	0328-0004		

* Elbow Tip (ET) Information: Page 55

- UM accomodates 000-2ET
- 4-UM accomodates 3 & 4 ET
- 6-UM accomodates 5 & 6 ET
- 10-UM accomodates 7 & 8 ET



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



Uses Replacement Tip Ends; Types TE, TEN, TEMF
See page 59.

MULTI-GAS NOZZLE ORDERING INFORMATION



Torch Series	Type	Part No.	Fuel Gas Usage	Application, Description & Illustration
300	DFE	0323-0192	Multi-Gas Fuel Service	Dual flexible elbow nozzle assembly for special welding, heating, brazing needs, Uses replaceable tip ends.
300	UN	0323-0242	Multi-Gas Fuel Service	Standard bend nozzle for welding, brazing & heating. Uses replaceable tip ends



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

For All Nozzles Using Replaceable Tip Ends

TIP ENDS INFORMATION

Type	Application, Description	Fuel Gas	Illustration
Type: TE	Welding, Brazing	Acetylene	 Types TE, TEN Flame characteristic - Long Cone
Type: TEN	Brazing & Silver Brazing.	Natural Gas Propane	
Type: TEMFA	Brazing, Silver Brazing, heating	Acetylene	 Type TEMFN, TEMFA Flame characteristic - Multi-flame
Type: TEMFN	Brazing, Silver Brazing, heating	All Fuel Gases Except Acetylene	

TIP SIZE, LENGTH, THREAD SIZE

Size(s)	Length	Thread	Type: TE	Type: TEB	Type: TEN
			Part No.	Part No.	Part No.
000	1-1/2"	5/16"-27	0311-0471	-	-
00	1-1/2"	5/16"-27	0311-0472	-	-
0	1-1/2"	5/16"-27	0311-0473	-	-
1	1-1/2"	5/16"-27	0311-0474	0311-0565	-
2	1-1/2"	5/16"-27	0311-0475	-	0311-0485
3	1-5/8"	5/16"-27	0311-0587	-	0311-0486
4	1-7/8"	5/16"-27	0311-0588	-	0311-0487
5	2"	5/16"-27	0311-0589	-	0311-0488
6	2-1/4"	.393-27	0311-0590 *	-	0311-0585 *
8	2-3/4"	.393-27	0311-0592 *	-	-
10	3"	.440-27	0311-0593 *	-	-

* Fit nozzles RTE Only.

TIP SIZE, LENGTH, THREAD SIZE

Type: TEMFA Acetylene

Size(s)	Length	Thread	Part No.
1	1-1/2"	5/16"-22	0311-0215
2	1-1/2"	5/16"-22	0311-0216
3	1-1/2"	5/16"-22	0311-0217
4	1-1/2"	5/16"-22	0311-0218
5	1-1/2"	5/16"-22	0311-0219


TIP SIZE, LENGTH, THREAD SIZE

Type: TEMFN Multiflame All Fuel Gases Except Acetylene


Size(s)	Length	Thread	Part No.
3	1-1/2"	5/16"-22	0311-0306
4	1-1/2"	5/16"-22	0311-0307
5	1-1/2"	5/16"-22	0311-0308
6	1-1/2"	5/16"-27	0311-0676
7	1-1/2"	5/16"-27	0311-0677
8	1-1/2"	5/16"-27	0311-0678
9	1-1/2"	5/16"-27	0311-0679
10	1-1/2"	5/16"-27	0311-0680

For Use with 300 Series Torch Handles

Acetylene or Hydrogen

HEATING NOZZLES ORDERING INFORMATION			
Model	Size	Part No.	Application, Description & Illustration
MFA	4	0323-0250	 <p>MFA</p> <p>Multi-flame heating head for heat treating, straightening, & priming.</p> <p>Sizes 4-8 (Length 12") Size 10 (Length 17-1/2")</p> <p>Fuel Gas Usage - Acetylene or Hydrogen</p>
	4	0387-0060 (Clamshell)	
	6	0323-0251	
	6	0387-0061 (Clamshell)	
	8	0323-0252	
	8	0387-0062 (Clamshell)	
	10	0323-0260	
	10	0387-0063 (Clamshell)	

Propane & Natural Gas

HEATING NOZZLES ORDERING INFORMATION			
Model	Size	Part No.	Application, Description & Illustration
MFN	8	0323-0292	 <p>MFN</p> <p>Multi-flame heating head for pre-heating, priming, straightening, etc.</p> <p>Sizes 4-8 (Length 12") Size 10 (Length 17-1/2")</p> <p>Fuel Gas Usage - N/G, Propane</p>
	10	0323-0302	

For Heating Nozzle Flow Data see Section B page 52.

For Heavy Duty, Large Capacity Nozzles see Section "J" Heavy Industry page 129.

Type 55 Multi-Flame Heating Nozzles

The Type 55 Series multi-flame heating nozzles feature a raised center point on the head to prevent bumping the plate and compressing the flame. The center point and improved mixer design combine to provide greater resistance to flashback and improved performance. Type 55's can be ordered in a complete assembly or individual components.

All Fuel Gases Except Acetylene.



Type 55 Heating Nozzle

TYPE 55 HEATING NOZZLES ORDERING INFORMATION

Type	Size	Part No.	Length	Application, Description & Illustration
55	6	0323-0327	11"	Fuel Gas Usage - ALL, except Acetylene
	8	0323-0328	11"	

For heating nozzle flow data refer to Section B page 52.

Type 55 Components

Type 55 series multi-flames are available as components. Threaded elbows give you the flexibility to easily service or extend the length of the nozzles. Use the special extensions adapter to extend the tip tube to the required length.

TYPE 55 COMPONENT ORDERING INFORMATION

Application / Description	Available Size	Available Length	Available Angles	Part No.
Multi-Flame Heads	6	N/A	N/A	0311-0240
	8	N/A	N/A	0311-0241
Multi-Flame Elbows	N/A	28"	180°	0304-0094
	N/A	16"	180°	0304-0095
	N/A	14"	65°	0304-0002
	N/A	26"	65°	0304-0011
Mixer and nut assembly, for use with pressures from 10 PSIG and up.				0328-0012
Extension Adapter - Thread specifications 1/4"-18 NPT (F) x 1/2"-27 UNS (F).				0312-0064

For **Heavy Duty, Large Capacity Nozzles** see Section "J" Heavy Industry page 130.

