These charts provide an easy selection guide for Victor equipment. Torches have been grouped by function: Heavy, Medium and Light Duty, and provide a quick reference allowing you to select the proper torch handle, welding or heating nozzle, tip ends, plus cutting attachment and cutting tip series to meet your needs.

Heavy Duty Equipment User Guide

Torch Handle	Welding Nozzles	Fuel Gas	Heating Nozzles	Fuel Gas	Cutting Attachment	Head Angle	Fuel Gas	Tip Series	Special Attachments
315FC	DTE W ET	A /L1	МГА	A /L1	CA 2460	90°		1	TE
315FG	RTE, W, ET	A/H	MFA	A/H	CA 2461	75°	A.II	1	TEN
11.04550	DTEN	NO/D	MFN	NG/P	CA 2462	180°	All	1	TEMFA
H 315FC	RTEN	NG/P	Type 55	*ALL	CA 2470	90°		3	TEMFN

RTE, RTEN welding nozzles use tip ends.

Medium Duty Equipment User Guide

Torch Handle	Welding Nozzles	Fuel Gas	Heating Nozzles	Fuel Gas	Cutting Attachment	Head Angle	Fuel Gas	Tip Series	Special Attachments
	ET, ET-1, FE-1.	A/H	MFA-1	۸	CA 1350	90°		3	TE
100FC	UN-1, W-1	Α/П	IVIFA- I	A	CA 1351	75°	All	3	TEN
100FG	UN-1	NG/P	MFN-1	NG/P	CA 1352	180°	All	3	TEMFA
	UN-1	NG/P	IVIFIN-I	NG/P	UA 1302	100		ა	TEMFN
UN-1, FE-1	UN-1, FE-1 welding nozzles use tip ends.								

Light Duty Equipment User Guide

Torch Handle	Welding Nozzles	Fuel Gas	Cutting Attachment	Head Angle	Fuel Gas	Tip Series	Special Attachments
J-28	ET, FE-J, UN-J, W-J	A/H	CA 1000	000	A.II		TE TEN
J-40	UN-J, UNN-J	NG/P	CA 1260	90°	All	3	TEMFA TEMFN
UN-J, UNN-	UN-J, UNN-J, FE-J welding nozzles use tip ends.						

^{*}Type 55 heating nozzle - uses H 315FC or 315FC torch handle. All fuel gases except acetylene.

MFA - For Use with HD 310C Series Torch Handle.

	Type MFA – for use with Acetylene							
Tip Size	Oxygen Pressure (PSIG) Acetylene Pressure (PSIG) Oxygen Consumption (SCFH) Acetylene Consumption (SCFH) BTU Per Hour							
12 15	50/60 50/60	12/15 12/15	66/165 99/244	60/150 90/220	See Below			

MFN - For Use with HD 310C Series Torch Handle.

	Type MFN – for use with all fuel gases except Acetylene							
Tip Size	Oxygen Pressure Fuel Pressure Oxygen Consumption Fuel Consumption Size (PSIG) (PSIG) (SCFH) Fuel Consumption (SCFH) BTU Per Hour							
12 15 20	30/125 30/125 40/135	15/25 15/25 15/25	120/640 200/800 300/1000	30/160 50/200 75/250	See Below			
WARNING	WARNING: Not for use with acetylene.							

Type 55 - For Use with HD 310C Series Torch Handle.

	Type 55 – for use with all fuel gases except Acetylene								
Tip Size	Oxygen Pressure (PSIG) Fuel Pressure (PSIG) Oxygen Consumption (SCFH) Fuel Consumption (SCFH) BTU Per Hour								
10 15 20	70/100 90/120 100/150	15/25 20/35 30/50	356/460 600/800 900/1150	150/200 250/350 400/500	See Below				
WARNING	WARNING: Not for use with acetylene.								

WARNING:

- Use flashback arrestors.
- Although built to Victor's quality and safety standards, due to the cutting capacity and/or design of each torch, flashback arrestors are not manufactured into these Victor heavy industry torches.
- To reduce the risk of personal injury, death and/or property damage, use sufficient capacity flashback arrestors with all Victor heavy industry torch products.
- Alternative fuel gas only refers to propane, natural gas, propylene gases. Acetylene, hydrogen and gasoline are NOT included as an alternative gas.

MFA / MFA-1 - For Use with 100 and 300 Series Torch Handles.

	Type MFA, MFA-1 – for use with Acetylene							
Tip Size	Oxygen Pressure (PSIG) Acetylene Pressure (SCFH) Acetylene Consumption (SCFH) BTU Pe							
2	4/8	4/8	3/10	3/9				
4	8/12	6/10	7/22	6/20				
6	10/15	8/12	15/44	14/40	See Below			
8	20/30	10/15	33/88	30/80				
10	30/40	12/15	44/110	40/100				

MFN / MFN-1 - For Use with 100 and 300 Series Torch Handles.

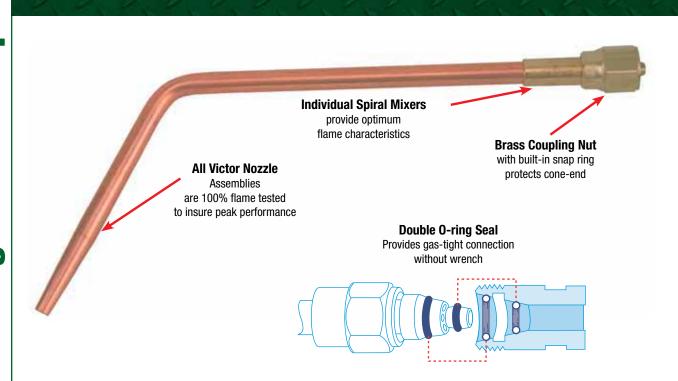
	Type MFN, MFN-1 – for use with Propane & Natural Gas							
Tip Size	Oxygen Pressure (PSIG)	Fuel Pressure (PSIG)	Oxygen Consumption (SCFH)	Fuel Consumption (SCFH)	BTU Per Hour			
6	8/20	2/10	20/80	5.5/20				
8	10/20	10/15	40/140	10/35	See Below			
10	10 10/30 12/20 80/320 20/80							
WARNING	WARNING: Not for use with acetylene.							

Type 55 – For Use with 300 Series Torch Handles.

Type 55 –	Type 55 – for use with Propylene based fuel gases, Methane, Propane, Butane, Liquid Air Fuel gases, pressurized Natural Gas							
Tip Size	Oxygen Pressure (PSIG)	Fuel Pressure (PSIG)	Oxygen Consumption (SCFH)	Fuel Consumption (SCFH)	BTU Per Hour			
6 8	70/80 70/85	15/20 15/25	160 220	65 85	See Below			
WARNING	: Not for use with ace	tylene.			•			

Approximate Gross BTU Content Per Cubic Foot.						
Acetylene1470 Natural Gas 1000						
Propane 2498	Butane 3374					
Methane 1000	Propylene 2371					

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



Exclusive "OPTIMIZED" nozzles with a large choice of types and sizes, plus uniformity of tip orifice and size for all series

Victor offers a complete range of nozzles, tips and elbows with a size for every application including: welding, brazing, heating, descaling, hard facing, flame priming, etc.

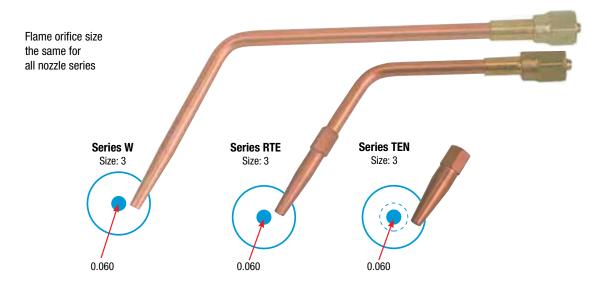
Nozzles designed for "optimum" performance - Each complete nozzle has its own built-in spiral mixer, individually designed for each tip size and flame characteristic. Each nozzle is individually swaged to insure proper alignment for uniform flame, sizing and free-flow contour.

Orifice sizes are common for all series - Regardless of nozzle series (300FC, 100FC, J), flame characteristic or fuel gas used. The uniformity of orifice sizes simplifies nozzle selection, eliminates chances of ordering and wrong size when changing from one type of nozzle to another.

Heating Tip

Fuel Gas





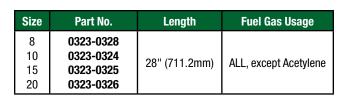
Welding Nozzle Operational Data/Acetylene Covers Series W (Heavy Duty), W-1 (Medium Duty) And W-J (Light Duty) Series

	OPERATIONAL & PERFORMANCE DATA							
Metal	Thickness	Tip	Drill	Oxygen	Acetylene	Acetylene		
IN	MM	Size	Size	(PSIG)	(PSIG)	(SCFH)		
1/32"	0.8	000	75 (0.022)	3/5	3/5	1 / 2		
3/64"	1.2	00	70 (0.028)	3/5	3/5	1.5 / 3		
5/64"	1.9	0	65 (0.035)	3/5	3/5	2/4		
3/32"	2.4		60 (0.040)	3/5	3/5	3/6		
1/8"	3.2	2	56 (0.046)	3/5	3/5	5 / 10		
3/16"	4.8	3	53 (0.060)	4 / 7	3 / 6	8 / 18		
1/4"	6.4	4	49 (0.073)	5 / 10	4 / 7	10 / 25		
1/2"	12.7	5	43 (0.089)	6 / 12	5/8	15 / 35		
3/4"	19.0	6	36 (0.106)	7 / 14	6/9	25 / 45		
1.25"	32.0	7 8	30 (0.128)	8 / 16	8 / 10	30 / 60		
2"	51.0		29 (0.136)	10 / 19	9 / 12	35 / 75		
3"	76.2	10	29 (0.136) 27 (0.144)	12 / 24	12 / 15	50 / 100		

WARNING: At no time should the withdrawal rate of an individual acetylene cylinder exceed 1/7 of the cylinder contents per hour. If additional flow capacity is required use an acetylene manifold system of sufficient size to supply the necessary volume. Oxygen consumption (SCFH) is 1.1 times the acetylene under neutral flame conditions.

	OXY-ACETYLENE & OXY-HYDROGEN						
Application	Torch Series	Nozzle Type	Available Sizes	Illustration			
General purpose welding & heating. Uses replaceable tip ends. Flame characteristic - Long cone.	315FC H 315FC	RTE	000-6, 8,10	Sizes: 000-6, 8 (Length 4.5") Size: 10 (Length 14")			
	315FC	W	000-8, 10				
General purpose welding and preheating.	100FC	W-1	000-7	65°/			
Swaged one-piece copper elbow. Flame characteristic - Long cone.	J-28 J-40	W-J	000-4	Sizes: 000-8 (Length 4.5") Size: 10 (Length 14")			





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 the unique mixer design combine to provide greater resistance to sustained backfire and improved flow performance. Type 55s can be ordered as a complete assembly or as individual components.

 High capacity heating head for heat treating, straightening, & priming.

WARNING: Type 55 for all alternative fuel gases.

Type 55 - use HD 310C and
3/8" (9.5mm) hose.

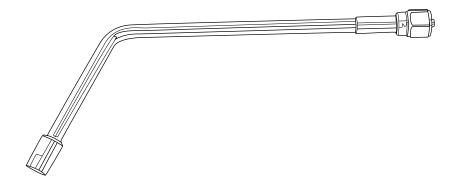
Not for use with acetylene.

Application/ Description	Available Size	Available Length	Available Angles	Part No.		
Multi-Flame	8	-	-	0311-0241		
Heads	10	-	-	0311-0230		
(Only)	15	-	-	0311-0231		
(Oilly)	20	-	-	0311-0232		
	-	14" (355.6mm)	65°	0304-0002		
Multi-Flame	-	16" (406.4mm)	180°	0304-0095		
Elbows	-	26" (660.4mm)	65°	0304-0011		
	-	28" (711.2mm)	180°	0304-0094		
Mixer and nut 10 PSIG and u	0328-0012					
Extension Ada NPT(F) x 1/2"-	0312-0064					
All Type 55 he	All Type 55 heating nozzles must be used with HD 310C torch handle					

and 3/8" (9.5mm) hose.

Type 55 Components

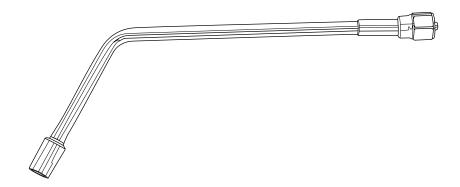
The Type 55 Series multi-flames are available as components. Threaded elbows give you the flexibility to easily service or extend the length of the nozzles. By using the special extension adapter you can build the length to suit your customer's needs.



Size	Part No.	Length	Fuel Gas Usage
12 15	0323-0261 0323-0262	17.5" (444.5mm)	Acetylene, Hydrogen

MFA

- Multi-flame heating head for heat treating, straightening & priming
- For use with HD 310C torch handle and 3/8" (9.5mm) hose



Size	Part No.	Length	Fuel Gas Usage
12	0323-0303		
15	0323-0304	17.5" (444.5mm)	Propane, Natural Gas
20	0323-0305	,	

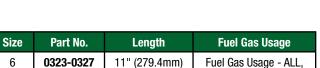
MFN

- Multi-flame heating head preheating, priming, straightening, etc.
- For use with HD 310C torch handle and 3/8" (9.5mm) hose

8



0323-0328



except Acetylene

11" (279.4mm)



Type 55 Multi-Flame Heating Nozzles 300 SERIES

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 55s can be ordered in a complete assembly or individual components.

Application /Description	Available Size	Available Length	Available Angles	Part No.		
Multi-Flame	6	-	-	0311-0240		
Heads	8	-	-	0311-0241		
	-	14" (355.6mm)	65°	0304-0002		
Multi-Flame Elbows	-	16" (406.4mm)	180°	0304-0095		
	-	26" 660.4mm)	65°	0304-0011		
	-	28" (711.2mm)	180°	0304-0094		
Mixer and nut PSIG and up.	0328-0012					
Extension Adap NPT(F) x 1/2"-	0312-0064					
Not for use wit	Not for use with acetylene.					

Type 55 Components 300 SERIES

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.



MFA

Multi-flame heating head for heat treating, straightening & priming.

• Fuel gas usage - acetylene, hydrogen

		Par	t No.		Tip End	
Model	Size	Boxed	Clamshell	Length	Replacement	Series
	4	0323-0250	0387-0060			
MFA	6	0323-0251	0387-0061 12.0" (304.8mm)		300	
IVIFA	8	0323-0252	0387-0062		-	300
	10	0323-0260	0387-0063	17.5" (444.5mm)		
	2	0324-0108	•		0311-0598	
MEA 1	4	0324-0109	0387-0071	10.011 (204.0	0311-0599	100
MFA-1	6	0324-0110	0387-0072	12.0" (304.8mm)	0311-0600	100
	8	0324-0111	0387-0073		0311-0611	



MFN

Multi-flame heating head for preheating priming, straightening, etc.

• Fuel gas usage - propane, natural gas

Model	Size	Part No.	Length	Tip End Replacement	Series
MFN	8	0323-0292	12.0" (304.8mm)		300
IVIFIN	10	0323-0302	17.5" (444.5mm)	•	300
	4	•	-	0311-0610	
MFN-1	6	0324-0117	12 0" (204 9mm)	0311-0611	100
	8	0324-1118	12.0" (304.8mm)	0311-0612	

Victor Professional

Series 1

Acetylene

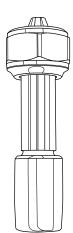
For preheating before welding, descaling and paint burning etc.

Size	Part No.
6	0330-0527
8	0330-0528
*10	0330-0523
*12	0330-0524

Required pressures:

12/15 Acet.; 70/80 PSIG Oxy. Size: 8 is maximum size for use with cutting attachments.

*Use 3/8" (9.5m) hose straight torch.

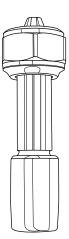


Series 1 TYPE MFTN

LP (Propane/Natural Gas)For preheating before
welding, descaling and paint
burning etc.

Size	Part No.
10	0330-0521
12	0330-0522

Not for use with cutting attachments.



		Part	No.		
Model	Size	Boxed	Clamshell	Length	Series
	000	0323-0110	-		
	00	0323-0111	0387-0019		
	0	0323-0112			
	1	0323-0120	0387-0021		
	2	0323-0121	0387-0022		
w	3	0323-0122	0387-0023	4.5"	300
W W	4	0323-0130	0387-0024		300
	5	0323-0131	-		
	6	0323-0132	-		
	7	0323-0140	-		
	8	0323-0141	-		
	10	0323-0142	-	14"	
	000	0324-0068	0387-0028		
	00	0324-0069	0387-0029		
	0	0324-0070	0387-0030		
	1	0324-0071	0387-0031		
W-1	2	0324-0072	0387-0032		100
	3	0324-0073	0387-0033		100
	4	0324-0074	0387-0034		
	5	0324-0075	-		
	6	0324-0076	0387-0036		
	7	0324-0077	-	4.5"	
	000	0325-0081	-		
	00	0325-0082	0387-0039		
	0	0325-0083	0387-0040		
l	1	0325-0084	0387-0041		١.
W-J	2	0325-0085	0387-0042		J
	3	0325-0086	0387-0043		
	4	0325-0087	-		
	5 7	0325-0088	-		
	7	0325-0090	-		

W Series Welding Nozzles

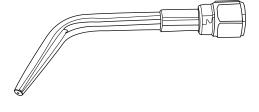
For use with 300 Series torch handles

- · General purpose welding & preheating
- Fuel gas usage acetylene, hydrogen
- 65° tip angle
- · Long cone flame
- One piece copper elbow tip



W-1

For use with 100 Series torch handles



W-J

For use with J Series torch handles



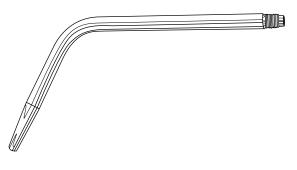
Victor Professional • Heavy, Medium & Light Duty

Model	Size	Part No.	Series
	000	0311-0055	
	00	0311-0056	
	0	0311-0057	
	1	0311-0058	
	2	0311-0059	
ET	3	0311-0572	300
	4	0311-0573	
	5	0311-0574	
	6	0311-0575	
	7	0311-0576	
	8	0311-0577	
	000	0311-0055	
	00	0311-0056	
ET	0	0311-0057	
	1	0311-0058	
	2	0311-0059	100
	3	0311-0345	
FT 4	4	0311-0340	
ET-1	5	0311-0602	
	6	0311-0603	
	000	0311-0123	
	00	0311-0124	
	0	0311-0125	
ET-J	1	0311-0126	J
	2	0311-0127	
	3	0311-0128	
	4	0311-0129	

ET Series Elbow Tips

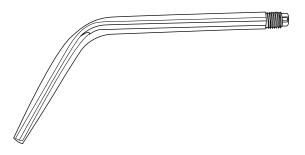
For use with 300 Series torch handles

- One piece copper elbow tip
- · Long cone flame
- Fuel gas usage acetylene, hydrogen



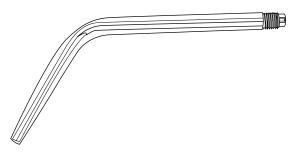
ET & ET-1

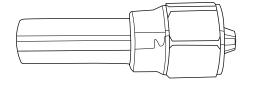
For use with 100 Series torch handles



ET-J

For use with J Series torch handles

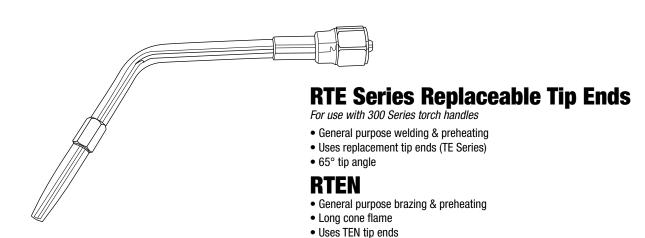




UM Series Universal Mixers

 Oxy-Acetylene universal mixers used when exact performance & Individual nozzles are not needed.

Туре	Part No.	Fuel Gas Usage	Elbow Tips Length		Series
UM	0328-0011		000-2ET		300
4-UM	0328-0003	Over Apotulono	3 & 4 ET	2.5" (63.5mm)	
6-UM	0328-0008	Oxy-Acetylene	5 & 6 ET		
10-UM	0328-0004		7 & 8 ET		
4-UM-1	0328-0005	Our Asshilans	000-2 ET, 3 ET-1, 4 ET-1,	1 7511 (44 5 22 22)	100
7-UM-1	0328-0009	Oxy-Acetylene	5 ET-1, 6 ET-1	1.75" (44.5mm)	100
UM-J	0328-0015	Oxy-Acetylene	000-4 ET-J 1.75" (44.5n		J



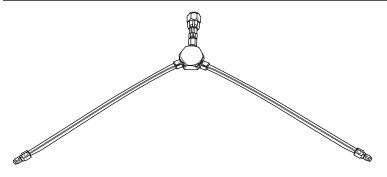
Model	Size	Part No.	Fuel Gas Usage	Series
RTE	00 0 1 2 3 4 5	0323-0307 0323-0308 0323-0309 0323-0310 0323-0311 0323-0312 0323-0313	Acetylene, Hydrogen	300
	6 8 10	0323-0314 0323-0316 0323-0317		
RTEN	6	0323-0284	N/G, Propane	



FE Series Flexible Elbow

- Flexible elbow for special welding, brazing, & heating needs
- · Multi-fuel gas service
- Uses replacement tip ends
- Thread: 5/16"-27

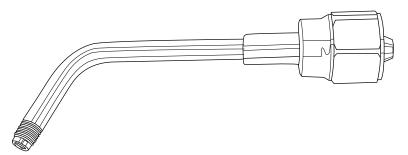
Туре	Part No.	Fuel Gas Usage	Tip End Replacements	Length	Series
FE	0323-0191	Multi-Gas Fuel Service	TE, TEN,TEMFA,TEMFN	11.5" (292.1mm)	300
FE-1	0324-0066	Multi-Gas Fuel Service	TE, TEN,TEMFA,TEMFN	11.5" (292.1mm)	100
FE-J	0325-0102	Multi-Gas Fuel Service	TE, TEN,TEMFA, TEMFN	11.5" (292.1mm)	J



DFE Series Dual Flexible Elbows

- Dual flexible elbow nozzle assembly for special welding, brazing & heating
- Uses replacement tip ends
- Thread: 5/16"-27

Туре	Part No.	Fuel Gas Usage	Tip End Replacements	Length	Series
DFE	0325-0192	Multi-Gas Fuel Service	TE, TEN,TEMFA,TEMFN	-	300
DFE-1	0325-0092	Multi-Gas Fuel Service	TE, TEN,TEMFA,TEMFN	-	100
DFE-J	0325-0108	Multi-Gas Fuel Service	TE, TEN,TEMFA,TEMFN	-	J



UN Series Universal Nozzle

- Standard bend nozzle for welding, brazing & heating
- Uses replacement tip ends
- 65° tip angle
- Thread: 5/16"-27

Туре	Part No.	Fuel Gas Usage	Tip End Replacements	Length	Series
UN	0323-0242	Multi-Gas Fuel Service	TE, TEN,TEMFA,TEMFN	5" (127.0mm)	300
UN-1	0324-0094	Multi-Gas Fuel Service	TE, TEN,TEMFA,TEMFN	5" (127.0mm)	100
UN-J	0325-0101	Multi-Gas Fuel Service	TE, TEN,TEMFA,TEMFN	5" (127.0mm)	J

TIP ENDS INFORMATION				
Туре	Application, Description	Fuel Gas		
TE	Welding, Brazing Acetylene			
TEN	Brazing, Silver Brazing	Natural Gas, Propane		
TEMFA	Brazing, Silver Brazing, Heating	Acetylene		
TEMFN	Brazing, Silver Brazing, Heating	All Fuel Gases Except Acetylene		

TE & TEN

300, 100 & J SERIES

Flame characteristic - Long Cone



TIP SIZE, LENGTH, THREAD SIZE						
Туре	Size(s)	Length	Thread	Part No.		
	000	1.5" (38.1mm)	5/16"-27	0311-0471		
	00	1.5" (38.1mm)	5/16"-27	0311-0472		
	0	1.5" (38.1mm)	5/16"-27	0311-0473		
	1	1.5" (38.1mm)	5/16"-27	0311-0474		
	2	1.5" (38.1mm)	5/16"-27	0311-0475		
TE	3	1.63" (41.4mm)	5/16"-27	0311-0587		
	4	1.88" (47.8mm)	5/16"-27	0311-0588		
	5	2" (50.8mm)	5/16"-27	0311-0589		
	6	2.25" (57.2mm)	0.393-27	*0311-0590		
	8	2.75" (69.9mm)	0.393-27	*0311-0592		
	10	3" (76.2mm)	0.440-27	*0311-0593		
	2	1.5" (38.1mm)	5/16"-27	0311-0485		
	3	1.63" (41.4mm)	5/16"-27	0311-0486		
TEN	4	1.88" (47.8mm)	5/16"-27	0311-0487		
	5	2" (50.8mm)	5/16"-27	0311-0488		
	6	2.25" (57.2mm)	0.393-27	*0311-0585		
	1	1.5" (38.1mm)	5/16"-22	0311-0215		
	2	1.5" (38.1mm)	5/16"-22	0311-0216		
TEMFA	3	1.5" (38.1mm)	5/16"-22	0311-0217		
	4	1.5" (38.1mm)	5/16"-22	0311-0218		
	5	1.5" (38.1mm)	5/16"-22	0311-0219		
	3	1.5" (38.1mm)	5/16"-22	0311-0306		
	4	1.5" (38.1mm)	5/16"-22	0311-0307		
	5	1.5" (38.1mm)	5/16"-22	0311-0308		
TEMFN	6	1.5" (38.1mm)	5/16"-27	0311-0676		
LIVIIIV	7	1.5" (38.1mm)	5/16"-27	0311-0677		
	8	1.5" (38.1mm)	5/16"-27	0311-0678		
	9	1.5" (38.1mm)	5/16"-27	0311-0679		
	10	1.5" (38.1mm)	5/16"-27	0311-0680		

Adapter for tip ends to fit tip tube: 5/16"-27(F) x 1/8"-27(M) 0312-0071

*Fit nozzles RTE Only.

TEMFA & TEMFN

300, 100 & J SERIES

Flame characteristic - Multi-flame

