

FORTER STATES AND ADDRESS OF CONTENDER OF CO

ONE TORCH, ALL FUELS
Complete Lineup

- ► Torches, Handles and Attachments
- ► LPG Regulators
- Heating Nozzles
- Cutting Tips
- Outfits

www.victorequip.com

Alternative Fuel Solutions

What you need to know about alternative fuels, torches, regulators, hoses and torch tips.

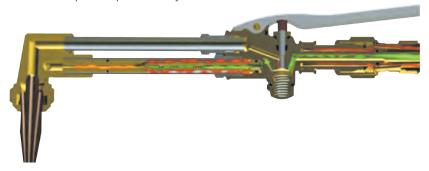
Torches - One Torch for ALL Fuel Gases

In the early years of gas cutting, equipment was initially designed to operate on low pressure fuel gas (acetylene) and city-gas (natural gas). These torches utilized a venturi design to siphon the fuel gas, because the fuel gases were not pressurized or only available at a very low service pressure.

As higher cylinder and line pressure became the norm, Victor improved the torch design and patented the "universal multi-fuel mixer" that blends any industrial fuel gas with oxygen.

Today, fuel gases have cylinder and line pressures above 70 psig. Fuel gas manufacturers recommend operational gas pressures of 5-40 psig for gas equipment. Our Victor line of torches are specifically designed to offer optimized performance with any industrial fuel gas.

Victor torches utilize the proven performance of high efficiency mixers. Victor's universal multi-fuel mixers evenly blend gases to provide performance and deliver maximum fuel efficiency. In addition to proven performance with any fuel gas, only Victor torches include built-in flashback arrestors and check valves to provide optimum safety.



Alternative Fuels — Switching from Acetylene to Propylene or Other Fuel Gases

Switching from oxy-acetylene to oxy-propylene or other alternative gases requires changing the fuel gas regulator and torch tips. A T-grade hose should be used with alternate fuels. Victor Professional outfits are equipped with a T-grade hose. As noted, your Victor torch can easily accommodate any industrial fuel gas.

Alternative fuels such as propylene or propane can be used effectively with the right equipment. This brochure features the Victor products that are well suited to these alternative fuels.







Different Fuel Gases Require Different Regulators

When changing from oxy-acetylene to other fuel gases you need to change the regulator. The Compressed Gas Association (CGA) Safety Bulletin SB-8-2009 advises against using the same regulator with different gases. A regulator for use with propane or propylene must be marked "L.P. Gas" to indicate that it can be used with liquid petroleum fuel gases.

Victor EDGE™ series models are color-coded and labeled for easy identification — for example, orange for L.P. and green for oxygen. Victor offers a complete line of EDGE regulators suited for any application, including medium and high capacity, high flow, pipeline-line and station models. This brochure outlines the various EDGE models available, or you may contact your local Thermadyne representative to help identify the right Victor regulator for any fuel gas or application.



Cutting and Heating Tips are Designed for Specific Fuel Gases

While a Victor torch can be used with various fuel gases, the torch tip must be changed. Tips are designed for specific fuel gases to optimize it's heating performance.

Fuel gases have different burning rates. Victor engineers consumables to match the characteristics of each fuel gas. The slower burning rate of alternative fuels require using a recessed tip to allow for proper flame attachment. Acetylene torch tips are one-piece designs, while alternative fuel torch tips are generally two-piece with specially configured passage ways that provide optimum performance.









Acetylene Tip Propylene Tip

The ordering information charts in this guide will help you find the right torch tip for your fuel gas and application. In addition, Victor offers a wide range of heating and cutting nozzles, and those are also featured.

For more information on alternative fuel solutions, be sure to visit www.thermadyne.com/alternativefueloptions

Torches, Handles and Attachments

VanGuard Straight **Cutting Torches**

For use with any fuel gas

 Includes built-in patented flashback arrestors and reverse flow check valves for added safety.

ST 2600FC Straight Cutting Torch

- Uses Series 1 cutting tips
- · For use with any fuel gas

OPTIONS

Head Angles: 75°, 90°, 180°

Torch Lengths:

17", 21", 27", 36", 48", 72", 96" Cutting Capacity: 8" (203.2mm)

ST 1000FC

Straight Cutting Torch

- Uses Series 1 cutting tips
- For use with any fuel gas, 5 PSIG and above

OPTIONS

Head Angles: 75°, 90°, 180°

Torch Lengths: 17", 21", 36", 48" **Cutting Capacity:** 5" (127mm)

ST 900FC

Straight Cutting Torch

- Uses Series 1 cutting tips
- For use with any fuel gas, 5 PSIG and above

OPTIONS

Head Angles: 75°, 90°, 180°

Torch Lengths:

17", 21", 27", 36", 48", 72", 96" **Cutting Capacity:** 5" (127mm)

Torch Handles

For use with any fuel gas

- Covers a full range of welding, cutting and heating needs.
- Threaded assembly for economical service.
- Meets or exceeds CGA E-5.
- ETL Listed to UL 123.

HD 310C

Victor Heavy Industry Torch Handle

The HD 310C is compatible with high capacity heating nozzles and is performance matched to the CA 2460 Series cutting attachment.

- · Built-in reverse flow check valves
- · Use flashback arrestors

Cutting Attachments

For use with any fuel gas

- · Universal gas mixer optimizes performance with any fuel gas
- Stainless steel tubes for strength, durability and heat resistance
- Brass coupling nut & double "O" ring tapered seal gives quick gas-tight seal without a tightening wrench
- · Die-forged brass head for maximum durability

CA 2460 300 Series **Heavy Duty Cutting Attachment**

The CA 2460 Series cutting attachment

is performance matched for use with H 315FC and the 315FC torch handle.

Head Angles: 75°, 90°, 180° **Handle Length:** 10.5" (266.7mm) Cutting Range: 8" (200 mm)



VanGuard H 315FC/315FC

Heavy Duty Torch Handles

The CA 2460 Series cutting attachment is performance matched to both the H 315FC and 315FC torch handle

- H 315FC is a high flow torch handle
- · Built-in flashback arrestors & reverse flow check valves

CA 1350 100 Series **Medium Duty Cutting Attachment** The CA 1350 Series cutting attachment

is performance matched for use with the 100FC torch handle.

Head Angles: 75°, 90°, 180° Handle Length: 8" (203.2mm) Cutting Range: 6" (152 mm)



VanGuard 100FC

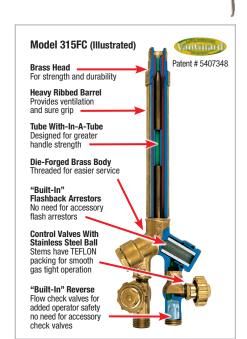
Medium Duty Torch Handle

- The CA 1350 Series cutting attachment is performance matched to the 100FC torch handle
- · Built-in flashback arrestors and reverse flow check valves



Additional Products

- 320 Torch Extension
- J Series Handles & Cutting Attachments





STRAIGHT TORCHES												
	ST 2	600FC	Serie	s								
Part No.	Model No.	Lever Position	Tip Series	Head Angle	Length							
0381-1486	SST 2600FC	Top Rear	1	90°	17" (43.2cm)							
0381-1487	SST 2601FC		-	75°	(1012011)							
0381-1480	ST 2600FC			90°								
0381-1482	ST 2601FC	Top Rear	1	75°	21" (53.3cm)							
0381-1483	ST 2601FCL*	·		75°								
0381-1484	ST 2602FC			180°								
0381-1490	ST 2610FC	Ton Door	4	90°	07!! (C0 Com)							
0381-1491	ST 2611FC ST 2612FC	Top Rear	1	75°	27" (68.6cm)							
0381-1492	ST 2630FC			180° 90°								
0381-1496 0381-1498	ST 2631FC	Top Door	1	75°	26" (01 4om)							
0381-1500	ST 2632FC	Top Rear	1	180°	36" (91.4cm)							
0381-1502	ST 2650FC			90°								
0381-1503	ST 2651FC			75°								
0381-1514	ST 2651FCL*	Top Rear	1	75°	48" (121.9cm)							
0381-1504	ST 2652FC	10p ricai	'	180°	10 (121.5611)							
0381-1515	ST 2652FCL*			180°								
0381-1506	ST 2670FC			90°								
0381-1508	ST 2671FC	Top Rear	1	75°	72" (182.9cm)							
0381-1510	ST 2672FC	1001100	·	180°								
0381-1513	ST 2692FC	Top Rear	1	180°	96" (243.8cm)							
* Locking lever		-1			, , ,							
	ST 1	OOOFC	ST 1000FC Series									
		OUGI O	DELIE	5								
0381-1640	SST 1000FC	Bottom		90°	4711 (40.0)							
0381-1640 0381-1642			1		17" (43.2cm)							
	SST 1000FC	Bottom Rear	1	90°	, ,							
0381-1642	SST 1000FC SST 1001FC	Bottom		90° 75°	17" (43.2cm)							
0381-1642 0381-1641	SST 1000FC SST 1001FC ST 1000FC	Bottom Rear Bottom	1	90° 75° 90°	. ,							
0381-1642 0381-1641 0381-1643	SST 1000FC SST 1001FC ST 1000FC ST 1001FC	Bottom Rear Bottom Rear Bottom	1	90° 75° 90° 75°	21" (53.3cm)							
0381-1642 0381-1641 0381-1643 0381-1644	SST 1000FC SST 1001FC ST 1000FC ST 1001FC ST 1030FC	Bottom Rear Bottom Rear	1	90° 75° 90° 75° 90°	. ,							
0381-1642 0381-1641 0381-1643 0381-1644 0381-1645	SST 1000FC SST 1001FC ST 1000FC ST 1001FC ST 1030FC ST 1031FC	Bottom Rear Bottom Rear Bottom	1	90° 75° 90° 75° 90° 75°	21" (53.3cm)							
0381-1642 0381-1641 0381-1643 0381-1644 0381-1645 0381-1646 0381-1647	SST 1000FC SST 1001FC ST 1000FC ST 1001FC ST 1030FC ST 1031FC ST 1032FC ST 1050FC	Bottom Rear Bottom Rear Bottom Rear	1	90° 75° 90° 75° 90° 75° 180°	21" (53.3cm) 36" (91.4cm)							
0381-1642 0381-1641 0381-1643 0381-1644 0381-1645 0381-1646	SST 1000FC SST 1001FC ST 1000FC ST 1001FC ST 1030FC ST 1031FC ST 1032FC	Bottom Rear Bottom Rear Bottom Rear	1	90° 75° 90° 75° 90° 75° 180° 90°	21" (53.3cm)							
0381-1642 0381-1641 0381-1643 0381-1644 0381-1645 0381-1646 0381-1647 0381-1648	SST 1000FC SST 1001FC ST 1000FC ST 1001FC ST 1030FC ST 1031FC ST 1032FC ST 1050FC ST 1050FC ST 1052FC	Bottom Rear Bottom Rear Bottom Rear Bottom Rear	1 1 1 1	90° 75° 90° 75° 90° 75° 180° 90° 75° 180°	21" (53.3cm) 36" (91.4cm)							
0381-1642 0381-1641 0381-1643 0381-1644 0381-1645 0381-1646 0381-1647 0381-1648 0381-1649	SST 1000FC SST 1001FC ST 1000FC ST 1000FC ST 1030FC ST 1031FC ST 1032FC ST 1050FC ST 1050FC ST 1052FC ST 1052FC	Bottom Rear Bottom Rear Bottom Rear	1 1 1 1	90° 75° 90° 75° 90° 75° 180° 90° 75° 180° 90°	21" (53.3cm) 36" (91.4cm)							
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		HAN	DLES			
		HD	310C			
Part No.	Model No.	Description	Hose Connection	Gas	Weight	Length
0382-0015	HD 310C	Heavy Industry High Capacity	"B" 9/16"-18	All	28 oz.	11" (279.4mm)
		H 315FC	and 315	FC		
0382-0316	H 315FC	High Flow Torch Handle	9/16"-18	All	20 oz.	9" (228.6mm)
0382-0034	315FC	"VanGuard" Heavy Duty	9/16"-18	All	18 oz.	9" (228.6mm)
0387-0008	315FC	"VanGuard" Heavy Duty (Clamshell)	9/16"-18	All	18 oz.	9" (228.6mm)
		320 Torcl	n Extens	ion		
0382-0019		320 Torch Extension	9/16"-18	All	16 oz.	12" (304.9mm)
		10	OFC			
0382-0032	100FC	"VanGuard" Medium Duty	9/16"-18	All	14 oz.	8.5" (215.9mm)
0387-0011	100FC	"VanGuard" Medium Duty (Clamshell)	9/16"-18	All	14 oz.	8.5" (215.9mm)
		J-28 a	and J-40			
0382-0006	J-40	Standard Light Duty	3/8"-24	All	5.5 oz.	3.75" (95.3mm)
0382-0127	J-28	Light Duty	3/8"-24	All	8.5 oz.	6" (152.4mm)
L 40 handla	door not h	avo obook valvo	o or flachback	arroct	oro	

J-40 handle does not have check valves or flashback arrestors. J-28 handle includes accessory reverse flow check valves for regulator use.

C	CUTTING ATTACHMENTS									
300 Series • CA 2460 and 2470										
Part No.	Model No.	Cutting Range	Tip Series	Head Angle						
0381-0816	CA 2460	8" (203.2mm)	1	90°						
0387-0000	CA 2460 CS	8" (203.2mm)	1	90°						
0381-0817	CA 2461	8" (203.2mm)	1	75°						
0381-0818	CA 2462	8" (203.2mm)	1	180°						
0381-0823	CA 2470	7" (177.8mm)	3	90°						
	100 S	eries • CA 1	350							
0381-0418	CA 1350	6" (152.4mm)	3	90°						
0387-0005	CA 1350 CS	6" (152.4mm)	3	90°						
0381-0420	CA 1351	6" (152.4mm)	3	75°						
0381-0421	CA 1352	6" (152.4mm)	3	180°						
	J Se	ries • CA 12	60							
0381-0162	CA 1260	3" (76.2mm)	3	90°						
0387-0003	CA 1260 CS	3" (76.2mm)	3	90°						
	CS Clamshell Pl	kg.								

EDGE™ Regulators

EDGE ESS7 High Flow Regulator Series

Developed specifically for high flow applications such as heavy cutting, the ESS7 High Flow regulator really delivers superior performance, safety and ease of use. This model also provides even more consistent flow performance over the SR 700 that it replaces.

- · Replaces SR 700 series
- · Forged brass body
- High strength Zinc-Aluminum housing cap
- 2.5" gauge with updated artwork
- · Color-coded SLAM impact absorbing safety knob
- Meets or exceeds CGA E-4 and ASTM G-175 Promoted Ignition Test
- ETL Listed to UL 252



EDGE" ESS4 Series High Capacity and EDGE ESS3 Series Medium Capacity

The ESS4 Series – the heavy duty, high capacity, single stage design regulator series that set the standard for the complete line of EDGE regulators. Its outstanding flow performance provides better flow control across a full range of cylinder pressures, with exceptional sensitivity and precision in delivery pressure. The ESS3 Series are medium capacity, single stage design regulators with the same safety and design benefits of the ESS4.

- Forged brass body
- · Zinc-Aluminum housing cap
- · High impact ABS gauge guard
- Stem type seat mechanism
- External self reseating relief valve in high pressure models
- Sintered inlet filter nickel plated bronze
- Color-coded SLAM[™] impact absorbing safety knob
- Meets or exceeds CGA E-4 and ASTM G-175 Promoted Ignition Test
- ETL Listed to UL 252

ST L.P. GAS 15

EDGE[™] ESL4 Pipeline—Line Regulator Series

Designed for gas distribution/pipeline systems, the ESL4 line regulator improves upon previous Victor* regulators with added EDGE benefits including the ergonomic, color coded adjusting knob and updated gauges.

- 4 port forged brass body
- High strength Zinc-Aluminum housing cap
- 2.5" gauge with updated artwork
- Color-coded SLAM impact absorbing safety knob
- For inlet pressures up to 350 psig (3000 psig for Oxygen and Inerts)
- Meets or exceeds CGA E-4
- ETL Listed to UL 252

EDGE EST4 Pipeline—Station Regulator Series

Ideal for weld station use and other gas distribution applications, the EST4 station regulator is fitted with the appropriate station style CGA connections for use with oxygen, inert or fuel gases. Along with the color coded adjusting knob and new gauges, this regulator not only improves productivity but looks good doing it.

- · 4 port forged brass body
- High strength Zinc-Aluminum housing cap
- 2.5" gauge with updated artwork
- Color-coded SLAM impact absorbing safety knob
- For inlet pressures up to 200 psig
- · Side entry and rear entry inlet versions available
- Meets or exceeds CGA E-4
- ETL Listed to UL 252

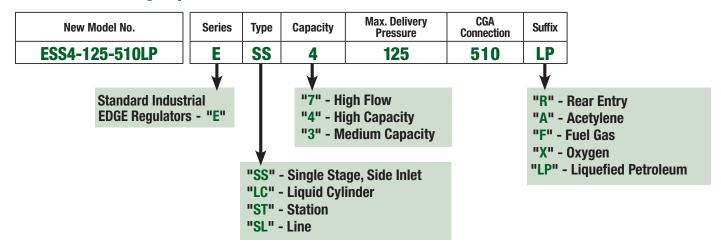






	ESS7 High Flow EDGE Series Regulators								
Part No.	Model No.	Gas Type							
0781-5188	ESS7-125-510LP	LP Gas							
	ESS4 Heavy Flow EDGE Series Regulators								
0781-5135	ESS4-40-510LP	LP Gas (longer swivel)							
0781-5136	ESS4-125-510LP	LP Gas (longer swivel)							
	ESS3 Medium Flow ED	GE Series Regulators							
0781-5108	ESS3-40-510LP	LP Gas							
0781-5109	ESS3-125-510LP	LP Gas							
	EST4 EDGE Series Pipe	eline-Station Regulators							
0781-5195	EST4-80-025	Hydrogen, Methane, Natural Gas, LP Gas							
0781-5212	EST4-80-025R	Hydrogen, Methane, Natural Gas, LP Gas							
0781-5196	EST4-125-025	Hydrogen, Methane, Natural Gas, LP Gas							
0781-5213	EST4-125-025R	Hydrogen, Methane, Natural Gas, LP Gas							
	ESL4 EDGE Series Pipe	eline–Line Regulators							
0781-5210	ESL4-80-250F	Hydrogen, Methane, Natural Gas, LP Gas							
0781-5211	ESL4-125-250F	Hydrogen, Methane, Natural Gas, LP Gas							

Model Numbering Explanation







Heating and Cutting Nozzles

Type 55 Multi-Flame Heating Nozzles

(All Alternate Fuel Gases)

Heavy Duty Heating Nozzle

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

- Sizes 10, 15 & 20 for use with HD 310C torch handles and 3/8" hose
- Smaller sizes available for use with 300 and 100 Series torch handles

Mixer & Nut Assembly

- 0328-0012 For use with pressures from 10 PSIG and up.
- 0328-0013 For use with pressures from 2 to 10 PSIG.



Type MFN

(Propane/Natural Gas and propylene)

Heavy Duty Heating Nozzle

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

- Sizes 12, 15 & 20 for use with HD 310C torch handle and 3/8" hose
- 300 Series torch handles use size 8 & 10
- 100 Series torches use Type MFN-1, Size 6 & 8

UN Series Universal Nozzles

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

FE Series Flexible Elbows

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

TEN 300, 100 & J SERIES

Flame characteristic - Long Cone



TEMFN

300, 100 & J SERIES

Flame characteristic - Multi-flame



DFE Series Dual Flexible Elbows

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

Series 1 Type MFTN

LP (Propane/Natural Gas)

For preheating before welding, descaling and paint burning etc. Not for use with cutting attachments.





CHT Adaptor (0312-0089)

Concentrated Heating Tip Adaptor for straightening, bending and forming of plate.

- · For use with Alternate Fuels
- Use with HPP or HPN size 5 cutting tip, multi-flame elbow, mixer and nut assembly







	Type 55 Multi-Flame Heating Nozzles										
Part No.	Туре	Available Size	HID 1:36 1163UD								
0323-0324		10									
0323-0325	55	15	28" (711.2mm)			HD 310C					
0323-0326		20		Fuel Gas Usa	age -						
0323-0327	55	6		ALL, except Ac	etylene	300					
0323-0328	ออ	8	11" (279.4mm)			300					
0324-0188	55-1	6				100					
		Series 3	00 • Type 5	5 Components	;						
Part No.	Avail	able Size	Application / Description	Available Length	Available Angles	Series					
0311-0240		6	Multi-Flame	-	-	300					
0311-0241		8	Heads	-	-	300					
0304-0002		-		14" (355.6mm)	65°	300					
0304-0095		-	Multi-Flame Elbows	16" (406.4mm)	180°	300					
0304-0011		-	LIDOWO	26" 660.4mm)	65°	300					
0328-0012	Mixer	and nut asse	mbly, for use with p	ressures from 10 PSI	G and up.	300					
0328-0013	Mixer	and nut asse	mbly, for use with p	ressures from 2 to 10	PSIG.	300					
0312-0064	l		- Thread specificat /2"-27 UNS(F).	ions		300					
	Not for	r use with ac	etylene.								

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

Tip i	Size, I	Lengt	h, Thread S	ize	
Part No.	Туре	Size(s)	Length	Thread	
0311-0485		2	1.5" (38.1mm)	5/16"-27	
0311-0486		3	1.63" (41.4mm)	5/16"-27	
0311-0487	TEN	4	1.88" (47.8mm)	5/16"-27	
0311-0488		5	2" (50.8mm)	5/16"-27	
*0311-0585		6	2.25" (57.2mm)	0.393-27	
0311-0306		3			
0311-0307		4			
0311-0308		5			
0311-0676	TEMFN	6	1.5" (38.1mm)	5/16"-27	
0311-0677	I EIVIFIN	7	1.5 (36.111111)	3/10 -27	
0311-0678		8			
0311-0679		9			
0311-0680		10			
Adapter for tip (* Fit nozzles R		tip tube: 5	/16" 27(F) x 1/8"-27(N	n) 0312-0071	

For 300, 100 and J Series

	MFN Multi Flame Heating Heads											
Part No.	Туре	Size	Tip End Replacement	Length	Series							
0323-0303		12	-									
0323-0304		15	-	17.5" (444.5mm)	HD 310C							
0323-0305	MFN	20	-									
0323-0292		8 0311-0560		12.0" (304.8mm)	300							
0323-0302		10	-	17.5" (444.5mm)	300							
0324-0117	MFN-1	6	0311-0611	12.0" (304.8mm)	100							
0324-0118	IVII IV-1	8	0311-0612	12.0 (304.011111)	100							
	FE Series Flexible Elbows											
Part No.	Туре	Fuel Gas Usage	Tip End Replacements	Length	Series							
0323-0191	FE	Multi-Gas Fuel Service	TEN, TEMFN	11.5" (292.1mm)	300							
0324-0066	FE-1	Multi-Gas Fuel Service	TEN, TEMFN	11.5" (292.1mm)	100							
0325-0102	FE-J	Multi-Gas Fuel Service	TEN, TEMFN	11.5" (292.1mm)	J							
		DFE Seri	es Dual Elbows									
Part No.	Туре	Fuel Gas Usage	Tip End Replacements	Length	Series							
0323-0192	DFE	Multi-Gas Fuel Service	TEN, TEMFN	-	300							
0324-0092	DFE-1	Multi-Gas Fuel Service	TEN, TEMFN	-	100							
0325-0108	DFE-J	Multi-Gas Fuel Service	TEN, TEMFN	-	J							
		UN Series	Universal Nozzles									
Part No.	Туре	Fuel Gas Usage	Tip End Replacements	Length	Series							
0323-0242	UN	Multi-Gas Fuel Service	TEN, TEMFN	5" (127.0mm)	300							
0324-0094	UN-1	Multi-Gas Fuel Service	TEN, TEMFN	5" (127.0mm)	100							
0325-0101	UN-J	Multi-Gas Fuel Service	TEN, TEMFN	5" (127.0mm)	J							

Cutting Tips

PROPYLENE

Two Piece

Series 1 Type GPP Hand & machine torch cutting.



General Purpose

One Piece

Series 1 Type MTHP High speed machine cutting up to 8" (203.7mm).



Two Piece

Series 3 Type GPP Hand cutting. (Series 3 for small cutting head).



Two Piece

Series 1 Type BTMP High performance bevel tip for use with mild steel, HSLA, T-1, HY-80.





Two Piece

Series 1 Type HPP Heavy pre-heat for scrap, bevel and other heavy pre-heat requirements.





One Piece

Series 1 Type 318MP Gouging and rivet washing.





One Piece

Series 1 Type 303MP Hand & machine torch cutting.





One Piece Bent

Series 1 Type GTB/GTB Gouging tip.





PROPANE & NATURAL GAS

Two Piece

Series 1 Type GPN Hand & machine torch cutting.



General Purpose

General Purpose

One Piece Bent

Series 1 Type 218 Deseaming, gouging, weld preparation, removing defective welds, rivet washing.



Two Piece

Series 3 Type GPN Hand torch cutting. (Series 3 for small cutting head).



Series 1 Type CSN Coarse spline for scrap cutting.



Special Application





Two Piece

Series 1 Type HPN Heavy pre-heat for scrap, bevel and other heavy pre-heat requirements.

Special Application



One Piece

Two Piece

Series 1 Type 207 Rivet washing.





Two Piece

Series 1 Type MTHN High speed machine cutting up to 10" (254mm).

Series 1 Type 200 Hand & machine torch cutting.

Special Application



General Purpose

General Purpose

One Piece Bent

One Piece Bent

Series 1 Type 234 Copy to come.



Special Application

One Piece

One Piece

Series 1 Type HDN Mill and foundry, scrap cutting

Series 1 Type 244 Cutting close to bulkheads,

rivet washing.



Special Application





under severe conditions.



Series 1 Type MCN Coarse spline for extra heavy pre-heat and wide kerf for demolition, ripping and rail car repair.



One Piece

Series 1 Type HDNL Extra length. Mill and foundry, scrap cutting under severe conditions.





Two Piece

One Piece

Series 1 Type BTN High performance bevel tip for use with mild steel, HSLA, T-1, HY-80.







				PRO	PYLENI	Ð			
	Series 1 • Type GPP		Series 3 Type GPP	Series 1 Series 1 Type HPP Type 303MP		Series 1 Type MTHP	Series 1 Type BTMP	Series 1 Type 318MP	Series 1 Type GTB
Size	Boxed	Clamshell	Boxed	Boxed	Boxed	Boxed	Boxed	Boxed	Boxed
000	0333-0260	-	-	-	-	-	-	-	-
00	0333-0261	-	0333-0389	-	0330-0187	0333-0352	-	-	-
0	0333-0262	0387-0154	0333-0390	0333-0282	0330-0188	0333-0353	-	-	-
1	0333-0263	0387-0155	0333-0391	0333-0283	0330-0189	0333-0354	-	-	-
2	0333-0264	0387-0156	0333-0392	0333-0284	0330-0193	0333-0355	-	-	-
3	0333-0265	-	0333-0393	0333-0285	0330-0194	0333-0356	-	0330-0333	0333-0414
4	0333-0266	-	0333-0394	0333-0286	0330-0195	0333-0357	0333-0209	0330-0335	0333-0415
5	0333-0267	-	0333-0395	0333-0287	0330-0196	0333-0358	0333-0210	-	-
6	0333-0268	-	-	0333-0288	0330-0197	-	0333-0211	0330-0336	-
7	0333-0269	-	-	-	-	-	-	-	-
8	0333-0270	-	-	0333-0290	-	-	-	-	-
10	-	-	-	0333-0291	-	-	-	-	-
12	-	-	-	0333-0292	-	-	-	-	-

	PROPANE & NATURAL GAS										
Series 1 • Type GPN		Series 3 •	Series 3 • Type GPN		Series 1 Type MTHN	Series 1 Type 200	Series 1 Type HDN	Series 1 Type HDNL	Series 1 Type 218		
Size	Boxed	Clamshell	Boxed	Clamshell	Boxed	Boxed	Boxed	Boxed	Boxed	Boxed	
000	0333-0300	-	-	-	-	-	-	-	-	-	
00	0333-0301	-	0333-0398	0387-0182	-	0333-0363	-	-	-	-	
0	0333-0302	0387-0172	0333-0399	-	0333-0322	0333-0364	0330-0143	-	-	-	
1	0333-0303	0387-0173	0333-0400	0387-0184	0333-0323	0333-0365	0330-0144	-	-	-	
2	0333-0304	0387-0174	0333-0401	0387-0185	0333-0324	0333-0366	0330-0145	-	-	-	
3	0333-0305	-	0333-0402	-	0333-0325	0333-0367	0330-0146	-	-	0330-0162	
4	0333-0306	-	0333-0403	-	0333-0326	0333-0368	0330-0147	-	-	0330-0178	
5	0333-0307	-	0333-0404	-	0333-0327	0333-0369	0330-0148	-	-	-	
6	0333-0308	-	-	-	0333-0328	0333-0370	0330-0149	0330-0504	0330-0553	0330-0179	
7	0333-0309	-	-	-	-	-	-	-	-	-	
8	0333-0310	-	-	-	0333-0330	0333-0372	-	0330-0505	0330-0554	0330-0183	
10	-	-	-	-	0333-0331	-	-	0330-0506	0330-0547	0330-0184	
12	-	-	-	-	0333-0332	-	-	0330-0507	0330-0548	-	
14	-	-	-	-	-	-	-	0330-0508	0330-0549	-	
16	-	-	-	-	-	-	-	-	0330-0550	-	

16	-	-	-	-	-	-	- 1
	Series 1 Type CSN	Series 1 Type 207	Series 1 Type 234	Series 1 Type 244	Series 1 Type MCN	Series 1 Type BTN	Series 1 Type GTB
Size	Boxed						
000	-	-	-	-	-	-	-
00	-	-	-	-	-	-	-
0	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-
2	-	-	0330-0341	0330-0344	-	-	-
3	-	-	-	-	-	-	0333-0414
4	-	0330-0166	-	-	-	0333-0206	0333-0415
5	-	-	-	-	-	0333-0207	-
6	-	-	-	-	0330-0543	0333-0208	-
7	-	-	-	-	-	-	-
8	0333-0411	-	-	-	-	-	-
10	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-
14	-	-	-	-	-	-	-
16	-	-	-	-	-	-	-

Look for Victor® Color Coded Packages

Propylene (Orange)
Propane/Natural Gas (Blue)

Cutting Tip Charts

					P 1	ROPY	LENE						
	Cutting Tip Series GPP, HPP							Cutting Tip Series MTHP • High Speed Machine Cutting					Cutting
Metal Thickness	Tip Size	Cutting Oxygen (PSIG)***	Preheat Oxygen (PSIG)*	Preheat Fuel Gas (PSIG)	Speed I.P.M.	Kerf Width	Metal Thickness	Tip Size	Cutting Oxygen (PSIG)***	Preheat Oxygen (PSIG)*	Preheat Fuel Gas (PSIG)	Speed I.P.M.	Kerf Width
1/8"	000	20/25		2/5	24/26	.04	1/4"	00	20/25			23/30	.05
1/4"	00	20/25	ONLY	2/5	21/25	.05	3/8"	00	20/25			22/29	.05
3/8"	0	25/30	8	3/5	20/24	.06	1/2"	0	25/30			20/28	.06
1/2"	0	25/30		3/5	18/22	.06	3/4"	0	25/30			18/26	.06
3/4"	1	30/35	TORCHES	3/6	15/20	.08	1"	1	30/35			17/24	.07
1"	2	35/40	운	3/6	14/18	.09	1 1/4"	1	35/40			16/20	.07
1 1/2"	2	40/45	요	4/8	12/16	.09	1 1/2"	1	40/45	BELOW	BELOW	12/16	.07
2"	3	40/50		4/8	10/14	.10	2"	2	40/50			11/15	.09
2 1/2"	3	45/50	MACHINES	5/9	9/12	.10	2 1/2"	2	45/50		BE	10/13	.09
3"	4	40/50	三	6/9	8/11	.12	3"	2	40/50	SE	SE	9/11	.09
4"	5	45/55	l ⊠	6/9	7/10	.14	4"	3	45/55	S	S	7/10	.11
5"	5	50/55		6/10	6/9	.14	5"	3	50/55			6/8	.11
6"	6	45/55	SS	6/10	5/7	.17	6"	3	45/55			5/7	.11
8"	6	55/65	3-HOSE	8/12	4/8	.18	7"	4	55/65			5/6	.14
10"	7	55/65	3-	8/12	3/5	.34	8"	4	55/65			4/6	.34
12"	8	60/70	FOR	10/14	3/4	.41	9"	5	60/70			4/5	.18
15"	10	50/70	<u> </u>	10/16	2/4	-	10"	5	50/70			3/5	.18
1011	10	AE/CE	I	l	A/C	1	II.						

PROPANE & NATURAL GAS

.24

NOTICE: The above data applies to all torches with the following exceptions:

Torch Series Preheat Oxygen (PSIG) Preheat Fuel (PSIG)
MT 200/MT 300 N/A 5 PSIG - UP

NOTICE: These speeds and pressure setings apply only to mild steel in good condition. Torches with flashback arrestors require up to 25% more pressure as tip size increases.

CAUTION: High gas withdrawl rates may require cylinder manifold. Consult your gas supplier.

| Cutting Tip Series GPN, HPN | Cutting Tip Series GPN | Cutting Tip Se

10/15

		(PSIG)***	(PSIG)"	(P5IG)		
1/8"	000	20/25		3/5	24/28	.04
1/4"	00	20/25		3/5	21/25	.05
3/8"	0	25/30		3/5	20/24	.06
1/2"	0	30/35		3/5	18/22	.06
3/4"	1	30/35		3/6	15/20	.08
1"	2	35/40	≥	3/6	14/18	.09
1 1/2"	2	40/45	BELOW	5/9	12/16	.09
2"	3	40/45		5/9	10/14	.10
2 1/2"	3	45/50	SEE	6/10	9/12	.10
3"	4	40/50	S	8/12	8/11	.12
4"	5	45/55		8/12	7/10	.14
5"	5	50/55		8/12	6/9	.14
6"	6**	45/55		10/15	5/7	.17
8"	6**	55/65		10/15	4/6	.18

NOTICE * The above data applies to all torches with the following exceptions:

60/70

Torch Series	Preheat Oxygen (PSIG)	Preheat Fuel (PSIG)
MT 200N	N/A	8 oz UP
MT 300N 000-6	20-55 PSIG	8 oz UP
ST 900C	N/A	5 PSIG - UP

^{**} For best results use ST 2600FC series torches and 3/8" hose when using tip size 6 or larger.
*** All pressures are measured at the regulator using 25' x 1/4" hose through tip size 5 and 25' x 3/8" hose for top sizes 6 and larger. Torches with flashback arrestors require up to 25% more pressure as tip size increases.

	Cutting Tip Series MTHN • High Speed Machine Cutting									
	Metal Thickness	Tip Size	Cutting Oxygen (PSIG)*	Preheat Oxygen (PSIG)	Preheat Fuel Gas (PSIG)	Speed I.P.M.	Kerf Width			
1	1/4"	00	85/95			23/30	.05			
1	3/8"	00	85/95			22/29	.05			
ı	1/2"	0	85/95		×	18/26	.06			
1	3/4"	0	85/95			17/24	.06			
i	1"	1	85/95	>		15/22	.07			
1	1 1/2"	1	85/95	07.		12/16	.07			
i	2"	2	85/95	BELOW	SEE BELOW	11/15	.09			
1	2 1/2"	2	85/95	SEE		10/13	.09			
i	3"	2	85/95	SI		9/11	.09			
ı	4"	3	85/95			7/10	.11			
i	6"	3	85/95			5/7	.11			
1	8"	4	85/95			4/6	.14			
ı	10"	5	85/95			3/5	.18			

NOTICE: The above data applies to all torches with the following exceptions:

 Torch Series
 Preheat Oxygen (PSIG)
 Preheat Fuel (PSIG)

 MT 200N
 N/A
 8 oz. - UP

 MT 300N
 10-25 PSIG
 8 oz. - UP

NOTICE: Data compiled using mild steel as test material.

Pressure is measured at the torch inlet on MTH Series Tips. Torches with flashback arrestors require up to 25% more pressure as tip size increases.



Operational and Performance Data

	Type	55 – For Use wi	th HD 310C Series To	rch Handles				
Type 55 – For Use with HD 310C Series Torch Handles 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	70/100	15/25	356/460	150/200				
15	90/120	20/35	600/800	250/350	See Chart			
20	100/150	20/35	900/1150	400/500				
WARNING: No	t for use with acetylene.							
	Tyl	pe 55 – For Use	with 300 Series Torcl	n Handles				
	Type 55 – for use with Pro	opylene based fuel gases, l	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	70/80	15/20	160	65	See Chart			
8	70/85	15/25	220	85	See Chart			
Type 55-1 – For Use with 100 Series Torch Handles								
	Type 55-1 – for use with P	ropylene based fuel gases,	Methane, Propane, Butane, Liquid A	ir Fuel gases, pressurized Natura	ıl Gas			
Tip Size	Oxygen Pressure (PSIG)	Fuel Pressure (PSIG)	Oxygen Consumption (SCFH)	Fuel Consumption (SCFH)	BTU Per Hour			
6	70/80	15/20	160	65	See Chart			
	MFI	N – For Use with	n HD 310C Series Toro	ch Handles				
		Type MFN – for us	se with all fuel gases except Acetyle	ne				
Tip Size	Oxygen Pressure (PSIG)	Fuel Pressure (PSIG)	Oxygen Consumption (SCFH)	Fuel Consumption (SCFH)	BTU Per Hour			
12	30/125	15/25	120/640	30/160				
15	30/125	15/25	200/800	50/200	See Chart			
20	40/135	15/25	300/1000	75/250				
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 Chart			
10	10/30	12/20	80/320	20/80				

Basic Characteristics of Fuel Gases

Fuel Gas	Acetylene	Propylene	Propane	Natural Gas
Burning Velocity	22.7 fps	15.0 fps	12.2 fps	15.2 fps
Specific Gravity (air = 1)	0.91	1.45	1.55	0.62
Neutral Flame Temp	5,720°F	5,240°F	4,579°F	4,600°F
Total BTUs/ft3	1470	2372	2563	1050
- Primary Flame BTU	507	403	295	55
- Secondary Flame BTU	963	1969	2268	995

All values are approximations. If more detailed specifications are required, contact your fuel gas supplier for the specific properties of the fuel gas.

Heavy Industry

In addition to the straight torches included in this brochure, Victor® offers several other high capacity straight torches designed for heavy cutting applications found in such industries as scrapping, demolition, and foundries. More information on these torches can be found in the Victor Industrial Gas Equipment catalog or in this Victor Professional Straight Torches Brochure, Form No. 65-2630.

Do you need special length torches?

If you don't see what you need:

Call: 800-426-1888 or Fax: 800-535-0557

Reference Heavy Industry Products. Victor welcomes your request for special length torches.

Scan this to learn more





Absolutely the Best . . . Period:





Journeyman° II AF

This heavy duty outfit is capable of cutting up to 8" (203.2mm) with the appropriate cutting tip.

- ESS4 Series Regulators
- 315FC Torch Handle with Built-in Flashback Arrestors & Check Valves
- CA 2460 Cutting Attachment
- Type 55 Heating Nozzle, Size: 8
- 1-1-GPN or 1-1-GPP Cutting Tip
- T-grade Hose 20' x 1/4" (6.1m x 6.4mm)
- · Striker and tip cleaner
- · Soft-Sided Shade 5 Goggles



Performer® AF

This medium duty outfit is capable of cutting up to 6" (152.4mm) with the appropriate cutting tip.

- ESS3 Series Regulators
- 100FC Torch handle with Built-in Flashback Arrestors & Check Valves
- CA 1350 Cutting Attachment
- Type 55-1 Heating Nozzle, Size: 6
- 0-3-GPN or 0-3-GPP Cutting tip
- T-grade hose 12.5' x 3/16" (3.8m x 4.8mm)
- · Striker and tip cleaner
- Soft-Sided Shade 5 Goggles

Contender® AF

This heavy duty outfit is capable of cutting up to 8" (203.2mm) with the appropriate cutting tip.

- ESS3 Series Regulators
- 315FC Torch Handle with Built-in Flashback Arrestors & Check Valves
- CA 2460 Cutting Attachment
- Type 55 Heating Nozzle, Size: 8
- 1-1-GPN or 1-1-GPP Cutting Tip
- T-grade Hose 20' x 1/4" (6.1m x 6.4mm)
- Striker

Journeyman Select AF

This heavy duty outfit is capable of cutting up to 8" (203.2mm) with the appropriate cutting tip.

- Available in either SR 450/ ESS4 Series Regulators
- 315FC Torch Handle with Built-in Flashback Arrestors & Check Valves
- CA 2460 Cutting Attachment

Cutter® Select AF ST 2600FC

This heavy duty outfit is capable of cutting up to 8" (203.2mm) with the appropriate cutting tip.

- ESS4 Series Regulators
- ST 2600FC Cutting Torch with Built-in Flashback Arrestors & Check Valves

Cutter Select AF ST 900FC

This heavy duty outfit is capable of cutting up to 5" (127.0mm) with the appropriate cutting tip.

- CSR 350 Series Regulators
- ST 900FC Cutting Torch Top Rear Lever Position with Built-in Flashback Arrestors and Check Valves

Ordering Information

Part No.	Description	Torch Handle	Cutting Attachment	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator	Hose
0384-2042	Journeyman II AF	315FC	CA 2460	1-GPN	8T55	ESS4-125-540	ESS4-125-510LP	20' x 1/4"
0384-2043	Journeyman II AF	315FC	CA 2460	1-GPP	8T55	ESS4-125-540	ESS4-125-510LP	20' x 1/4"
0384-2075	Journeyman Select AF	315FC	CA 2460	-	-	ESS4-125-540	ESS4-125-510LP	-
0384-0816	Journeyman Select AF	315FC	CA 2460	-	-	SR 450D-540	SR 461B-510	_
0384-2052	ContenderAF	315FC	CA 2460	1-1-GPN	8-55	ESS3-125-540	ESS3-40-510LP	20' x 1/4"
0384-2053	ContenderAF	315FC	CA 2460	1-1-GPP	8-55	ESS3-125-540	ESS3-40-510LP	20' x 1/4"
0384-2047	Performer AF	100FC	CA 1350	0-3-GPN	6T55-1	ESS3-125-540	ESS3-40-510LP	12.5' x 3/16"
0384-2048	PerformerAF	100FC	CA 1350	0-3-GPP	6T55-1	ESS3-125-540	ESS3-40-510LP	12.5' x 3/16"

Scan this to learn more



Outfits - Straight Torches

Part No.	Description	Torch/Head Handle°	Oxygen Regulator	Fuel Gas Regulator
0384-2062	ST 2600FC Cutter Select AF	ST 2600FC 21" 90°	ESS4-125-540	ESS4-40-510LP
0384-0857	ST 900FC Cutter Select AF	ST 900FC 21" 90°	CSR 350D-540	CSR 361B-510



Form No. 65-1106 (05/15/11)

A Global Cutting & Welding Market Leader

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