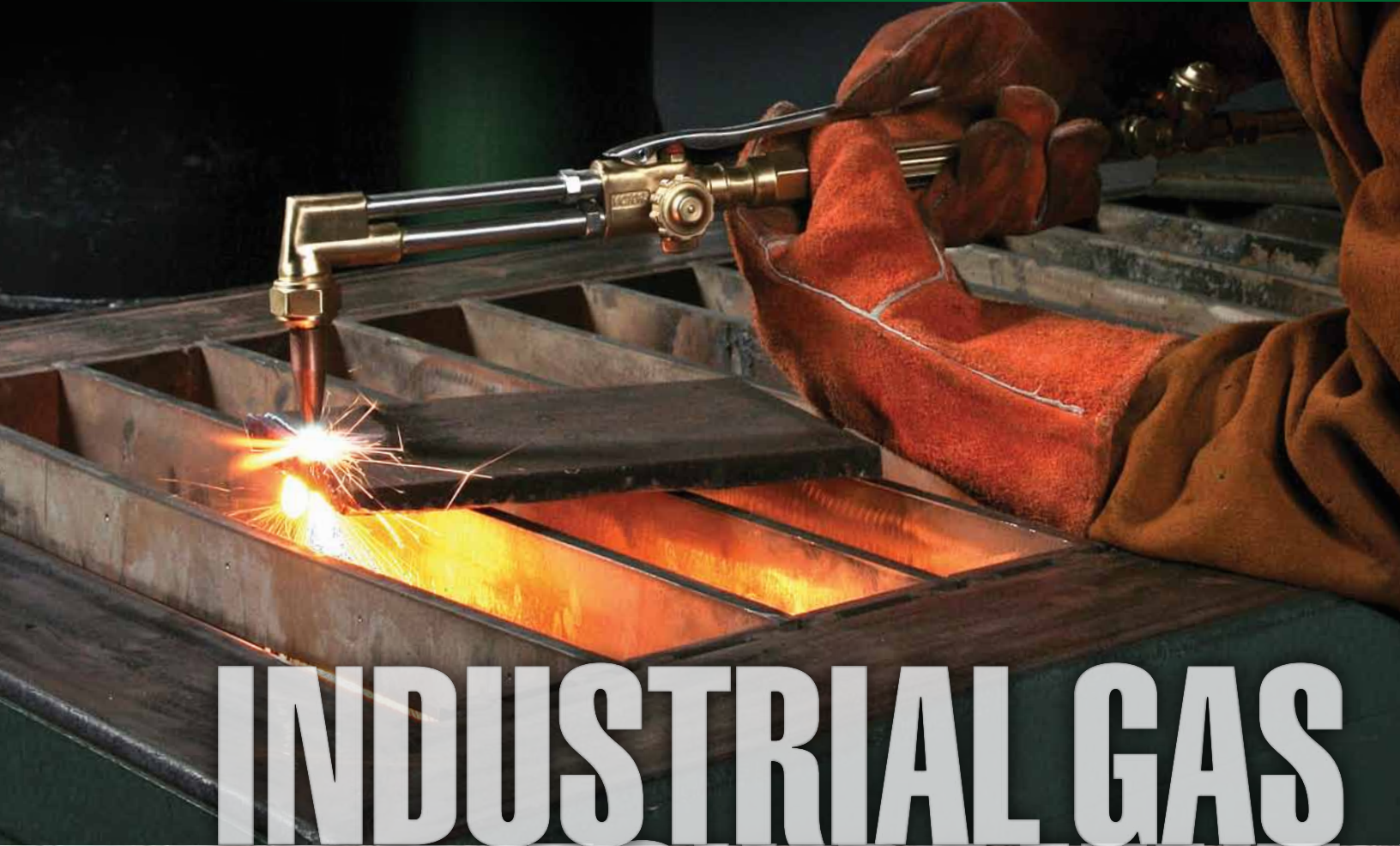


VICTOR[®]



INDUSTRIAL GAS EQUIPMENT

CATALOG



www.victorequip.com



Victor Gas Equipment

Victor is one of the oldest and most widely recognized names in gas equipment in the world. Its founder, L.W. Stettner, having suffered the loss of an eye in a welding accident, set out to design and build safer products for welding and cutting. Founded in 1913, the Victor Equipment Company, originally located in San Francisco, grew rapidly and moved its base of operations to Denton, Texas in the 1960s. Victor is now manufactured and distributed around the globe.

The tradition of unparalleled safety standards remains a cornerstone of the Victor brand today. Victor, the L.W. Stettner legacy, is now a part of the Thermadyne family of welding and cutting hard goods products. Thermadyne is committed to superior quality products and service. Thermadyne is ISO 9001:2000 certified and most of Thermadyne branded products are tested and certified by independent, accredited agencies including UL, CSA and ETL.

Victor is committed to providing superior quality and reliable equipment that earns confidence from customers and end users alike. Victor equipment will be recognizably better than those of competitors by consistently meeting or exceeding expectations and by providing safe, reliable performance time and time again. Victor has a proud heritage and long standing reputation for quality manufacturing and service. Insist on genuine Victor gas equipment.

Sections of this entire catalog are also available for downloading on our website at www.victorequip.com.



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This information is accurate to the best of our knowledge at the time of printing and is subject to change at any time at Victor's sole discretion.



PROFESSIONAL EQUIPMENT

Journeyman Heavy Duty

This heavy duty outfit cuts up to 3/4" (19.1 mm) or 8" (203.2 mm) with optional tips. It welds up to 1/2" (12.7 mm) or 3" (76.2 mm) with optional nozzles.



- ESS4 Series regulators
- H 315FC torch handle with built-in flashback arrestors and check valves
- CA 2460 cutting attachment
- Cutting tip (See chart)
- MFA heating nozzle (See chart)
- Welding nozzles (See chart)
- T-grade hose 20' x 1/4" (6.1 m x 6.4 mm)
- Striker and tip cleaner
- Soft-sided shade 5 goggles
- 5-Year Warranty*

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-2035	(W) 1,3,5	1-1-101	8-MFA	ESS4-125-540	ESS4-15-300
	0384-2036	(W) 1,3,5	1-1-101	8-MFA	ESS4-125-540	ESS4-15-510
British Fuel	0385-0530	(W) 1,3,5	1-1-101	8-MFA	ESS4-125-992	ESS4-15-993

*Refer to Warranty Schedule

Journeyman II Heavy Duty

This heavy duty outfit cuts up to 3/4" (19.1 mm) or 8" (203.2 mm) with optional tips. It welds up to 1/8" (3.2 mm) or 3" (76.2 mm) with optional nozzles.



- ESS4 Series regulators
- 315FC torch handle with built-in flashback arrestors and check valves
- CA 2460 cutting attachment
- Cutting tip (See chart)
- Heating nozzle (See chart)
- Welding nozzle (See chart)
- T-grade hose 20' x 1/4" (6.1 m x 6.4 mm)
- Striker and tip cleaner
- Soft-sided shade 5 goggles
- 5-Year Warranty*

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-2040	(W) 2	1-1-101	-	ESS4-125-540	ESS4-15-300
	0384-2041	(W) 2	1-1-101	-	ESS4-125-540	ESS4-15-510
British Fuel	0385-0531	(W) 2	1-1-101	-	ESS4-125-992	ESS4-15-993
Propane/ Natural Gas	0384-2042	-	1-1-GPN	8T55	ESS4-125-540	ESS4-125-510LP
Propylene	0384-2043	-	1-1-GPP	8T55	ESS4-125-540	ESS4-125-510LP

*Refer to Warranty Schedule

Contender Heavy Duty

This heavy duty outfit cuts up to 3/4" (19.1 mm) or 8" (203.2 mm) with optional tips. It welds up to 3" (76.2 mm) with optional nozzles on acetylene models.



- ESS3 Series regulators
- 315FC torch handle with built-in flashback arrestors and check valves
- CA 2460 cutting attachment
- Cutting tip (See chart)
- Heating nozzle (See chart)
- T-grade hose 20' x 1/4" (6.1 m x 6.4 mm)
- Striker
- 5-Year Warranty*

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-2051	–	1-1-101	6-MFA	ESS3-125-540	ESS3-15-300
	0384-2050	–	1-1-101	6-MFA	ESS3-125-540	ESS3-15-510
Propane/ Natural Gas	0384-2052	–	1-1-GPN	8T55	ESS3-125-540	ESS3-40-510LP
Propylene	0382-2053	–	1-1-GPP	8T55	ESS3-125-540	ESS3-40-510LP

*Refer to Warranty Schedule

Performer Medium Duty

This medium duty outfit cuts up to 1/2" (12.7 mm) or 6" (152.4 mm) with optional tips. It welds up to 1/4" (6.4 mm) or 1.25" (31.8 mm) with optional nozzles.



- ESS3 Series regulators
- 100FC torch handle with built-in flashback arrestors and check valves
- CA 1350 cutting attachment
- Cutting tip (See chart)
- Heating nozzle (See chart)
- Welding nozzle (See chart)
- T-grade hose 12.5' x 3/16" (3.8 m x 4.8 mm)
- Striker and tip cleaner
- Soft-sided shade 5 goggles
- 5-Year Warranty*

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-2046	(W-1) 0	0-3-101	4-MFA-1	ESS3-125-540	ESS3-15-300
	0384-2045	(W-1) 0	0-3-101	4-MFA-1	ESS3-125-540	ESS3-15-510
Propane/ Natural Gas	0384-2047	–	0-3-GPN	6T55-1	ESS3-125-540	ESS3-40-510LP
Propylene	0382-2048	–	0-3-GPP	6T55-1	ESS3-125-540	ESS3-40-510LP

*Refer to Warranty Schedule

Outfits

Journeyman Select Heavy Duty

This heavy duty outfit cuts up to 8" (203.2 mm) and welds up to 3" (76.2 mm) with accessories.



- 315FC torch handle with built-in flashback arrestors and check valves
- CA 2460 cutting attachment
- ESS4 Series regulators
- Available with 75° or 90° head angle
- 5-Year Warranty*

Gas Service	Part No.	Cutting Attachment	Head Angle	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-2070	CA 2460	90°	ESS4-125-540	ESS4-15-300
	0384-2068	CA 2460	90°	ESS4-125-540	ESS4-15-510
	0384-2069	CA 2461	75°	ESS4-125-540	ESS4-15-510
British Fuel	0384-2071	CA 2460	90°	ESS4-125-992	ESS4-15-993
Oxygen	0384-2073	CA 2460	90°	ESS4-125-540	**
	0384-2074	CA 2460	90°	ESS4-125-992	**
Propane/ Natural Gas, Propylene	0384-2075	CA 2460	90°	ESS4-125-540	ESS4-125-510LP

*Refer to Warranty Schedule

**Supplied with 2 oxygen regulators

Cutter Select ST 2600FC Heavy Duty

This heavy duty outfit cuts up to 8" (203.2 mm) with accessories.



- ST 2600FC cutting torch with built-in flashback arrestors and check valves
- ESS4 Series regulators
- Available with 90° head angle

Gas Service	Part No.	Torch	Head Angle°	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-2061	ST 2600FC 21"	90°	ESS4-125-540	ESS4-15-300
	0384-2060	ST 2600FC 21"	90°	ESS4-125-540	ESS4-15-510
Propane/ Natural Gas	0384-2062	ST 2600FC 21"	90°	ESS4-125-540	ESS4-40-510LP

Cutter Select ST 900FC Heavy Duty

This heavy duty outfit cuts up to 5" (127.0 mm) with accessories.



- ST 900FC cutting torch with built-in flashback arrestors and check valves
- CSR 350 or ESS3 Series regulators
- Available with a 90° head angle

Gas Service	Part No.	Torch	Head Angle°	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-2675	ST 900FC 21"	90°	ESS3-125-540	ESS3-15-300
	0384-0854	ST 900FC 21"	90°	CSR 350D-540	CSR 360A-300
	0384-0853	ST 900FC 21"	90°	CSR 350D-540	CSR 360A-510
Propane/ Natural Gas/ Propylene	0384-0857	ST 900FC 21"		CSR 350D-540	CSR 361B-510

Portable Tote Medium Duty

This medium duty portable outfit cuts up to 1/2" (12.7 mm) or 4" (101.6 mm) with optional tips. It welds up to 1/4" (6.4 mm) or 1.25" (31.8 mm) with optional nozzles.



- CSR 150 Series regulators
- 100FC torch handle with built-in flashback arrestors and check valves
- CA 1350 cutting attachment
- Welding nozzle (See chart)
- Cutting tip (See chart)
- T-grade hose 10' x 3/16" (3.1 m x 4.8 mm)
- Striker and goggles

Optional

- 10 cu. ft. CGA 200 acetylene cylinder
- 20 cu. ft. CGA 540 oxygen cylinder

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Cylinders	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-0935	(W-1) 1	0-3-101	No	CSR 150CR-540	CSR 160AR (MC)
	0384-0936	(W-1) 1	0-3-101	Yes	CSR 150CR-540	CSR 160AR (MC)

Fire-Stick Torch Kit

- Two models available - with or without regulator
- For propane (hose approved for LP)



Model No.	Part No.	Description	BTU's
HS-101	0384-1251	Fire-Stick with R-LP Regulator	350,000
HT-500	0384-1261	Fire-Stick without Regulator (Heavy Duty)	500,000

Powder Spray Torch Kit

The Victor VPT-100 provides powder feed into the gas mixture. Deposit thickness is controlled by the powder flow rate of the torch.



- 100 FC Torch Handle
- TE tips: size 3, 4
- TEMF tip: size 6
- 1 lb. of Tungsten Carbide #600
- 1 lb. of Nickel base #22
- Elbow assembly
- Hopper assembly

Model No.	Part No.	Description
VPT-100	0384-1265	Powder Spray Torch Kit

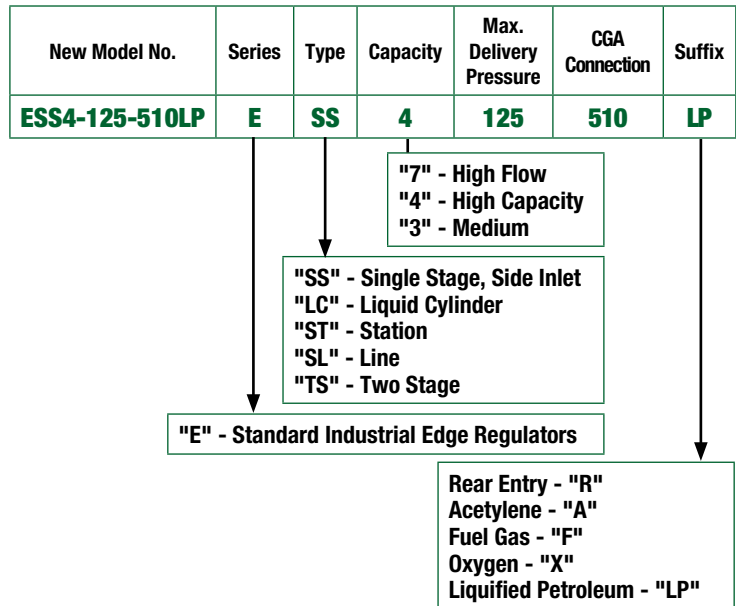
Regulators

GENERAL INFORMATION

Model Numbering Explanation

Single Stage Model	250 Series	5-125 PSIG Delivery Range	For Oxygen Service CGA 540 Inlet	Part No.
SR	250	D	540	0781-0043

Single or Two Stage model designations as well as those identifying delivery range are common to all regulators unless otherwise noted on individual ordering charts. When ordering be certain to specify delivery range, CGA inlet connections, and regulator part number.



Regulator Model Identification Symbols

Regulator Model Identification

ETS4	Edge Series Two-Stage High Capacity
EST4	Edge Series Station
ESL4	Edge Series Line
ELC4	Edge Series Liquid Cylinder
ESS7	Edge Series Single-Stage High Flow
ESS4	Edge Series Single-Stage High Capacity
ESS3	Edge Series Single-Stage Medium Capacity
SR	Single Stage
HSR	Single Stage with Flow Meter
VTS	Two Stage Design
HVTS	Two Stage with Flow Meter
AR	Air Relieving
S	Station
L	Line
HRF	Single Stage with Internal Flow Meter
AF	Argon Flow Gauge
CF	CO ₂ Flow Gauge
DL	Dome Loaded
BSL	Bulk System Line
DFM	Dual Flow Meter

Regulator Delivery Ranges

A	2-15 PSIG
B	2-40 PSIG
C	4-80 PSIG
D	5-125 PSIG
E	10-200 PSIG
F	50-750 PSIG
G	100-1500 PSIG
J	200-3000 PSIG
K	300-4500 PSIG

Outlet pressure delivery ranges are not minimum or maximum outlet pressure limits. Regulators can be adjusted to zero PSIG outlet pressure and generally, to pressures in excess of those specified. The use of these regulators to control pressures outside of the specified ranges is not recommended.

Commercial Gases & CGA Inlet Connections

Connection	Gases	Connection	Gases
CGA 200	Acetylene (MC)	CGA 660	Corrosive
CGA 300	Acetylene (Commercial)	CGA 677	Nitrogen, Argon & Helium
CGA 320	Carbon Dioxide	CGA 680	Nitrogen, Argon
CGA 326	Nitrous Oxide	CGA 701	Oxygen
CGA 346	Air (Formerly 1340)	CGA 992	British Oxygen & Inert Gas
CGA 347	Air	CGA 993	British Fuel Gas
CGA 350	Fuel Gas, Hydrogen	CGA 996	Manifold Oxygen & Inert Gas
CGA 500	Medical Mixtures	CGA 997	Manifold Fuel Gas
CGA 510	Acetylene (POL)	CGA 024	Station Oxygen
CGA 510LP	Propane, Natural Gas, Propylene	CGA 025	Station Fuel Gas
CGA 520	Acetylene (B)	CGA 034	Station Inert Gas
CGA 540	Oxygen		
CGA 555	Propane, Butane		
CGA 577	Oxygen		
CGA 580	Nitrogen, Argon, Helium		
CGA 590	Air (Industrial)		

Regulator Gauges

A Range	2-30 PSIG
B Range	2-60 PSIG
C Range	4-100 PSIG
D Range	5-200 PSIG
E Range	10-400 PSIG
F Range	50-1000 PSIG
G Range	100-2000 PSIG
J Range	200-4000 PSIG
K Range	200-6000 PSIG

When ordering regulators, specify part numbers. Regulators should not be used as a shut-off valve nor should they be used to protect downstream equipment.

Unless otherwise noted, high pressure gauges for all oxygen, inert gas, CO₂ and N₂O, and hydrogen models are graduated 200-4000 PSIG. High pressure gauges for fuel gas models are graduated 10-400 PSIG. Low pressure or outlet gauge ranges are determined by the regulator delivery range selected.

How to read the Flow Data Charts:

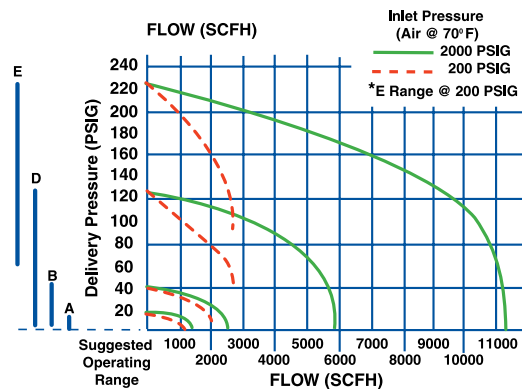
The regulator flow data is provided to assist in determining the proper regulator for the required application. The data is given for reference purposes only. If additional information is necessary contact your local distributor or the Customer Service Department at **1-800-426-1888**

The regulator flow data was established by connecting a valve to the regulator outlet. The valve was opened and the flow rates measured. The amount of pressure drop is shown on the curves as the flow increases.

Example

An SR 450D with an inlet of 2000 PSIG and an internal pressure setting of 125 PSIG (no flow) will flow 1000 SCFH, but the delivery pressure will drop to 115 lb. As the flow increased to 2000 SCFH, the pressure will drop to 108 PSIG.

With an inlet pressure of 200 PSIG and an initial setting of 125 PSIG, the regulator will flow 1000 SCFH with a pressure drop to 98 PSIG. At 2000 SCFH flow, the pressure will drop to 78 PSIG. If a delivery pressure other than the ones shown on the flow charts is required, use an average curve rate between the upper and lower pressures shown.



Delivery Pressure Rise

Single stage regulators have an increase in delivery pressure as the cylinder pressure decreases. Listed below is the amount of pressure increase per 100 PSIG decrease in cylinder (inlet) pressure.

ESS7-125	.95 PSIG
ESS7-200	1.54 PSIG
ESS4-125-540	.59 PSIG
ESS3-125-540	.53 PSIG
SR 4 Series J & K Range	4.8 PSIG
SR 5 Series	1.0 PSIG
SR 250 Series	0.5 PSIG
SR 350 Series	0.8 PSIG
SR 450 Series	0.6 PSIG
SR 600 Series	0.58 PSIG
SR 700 Series	1.2 PSIG

The change in delivery pressure of a Two Stage regulator from full to empty Cylinder (inlet pressure) is negligible.

Regulators

GENERAL INFORMATION

Pressure Drop Reference Charts

REGULATORS

Delivery Pressure Pound Per Square Inch	Oxygen Flow SCFH	Pressure Drop Pound Per Square Inch																	
		3/16" Hose				1/4" Hose				5/16" Hose				3/8" Hose					
		Hose Length in Feet																	
		12.5	25	50	100	12.5	25	50	100	12.5	25	50	100	12.5	25	50	100		
Oxygen Hose	10	100	5.0	6.3					2.0	3.8	6.0	*	*	*	2.3	*	*	*	2.0
		250					9.4					2.7	4.1	5.9		*	*	3.3	6.4
	25	100	3.6	5.7	8.2	13.4	*	*	2.9	4.3	*	*	*	*	*	*	*	*	*
		250	13.2	18.3			6.3	7.9	11.7	16.8	*	2.4	3.2	6.7	*	*	*	*	3.7
		500					21.5				6.3	8.7	12.1	19.9	2.7	4.6	6.9	11.9	
	50	100	2.0	3.4	5.9	9.3	*	*	2.0	2.7	*	*	*	*	*	*	*	*	*
		250	8.0	12.6	19.4		2.7	5.0	7.9	11.0	*	*	2.2	3.9	*	*	*	*	2.6
		500					14.1	18.2			3.4	5.9	7.7	13.3	*	2.9	4.7	8.0	
		750									8.8	12.3	17.8		3.8	6.0	9.8	10.9	
	75	100	*	2.6	3.8	7.1	*	*	*	2.8	*	*	*	*	*	*	*	*	*
		250	6.0	9.4	13.3	23.1	3.0	3.8	6.0	8.2	*	*	*	2.8	*	*	*	*	2.0
		500	19.7				10.7	13.8	19.8		2.5	3.9	6.3	9.4		2.0	3.4	5.9	
		750					22.5				6.6	8.8	13.7	18.8	2.7	4.1	7.0	12.2	
		1000									11.8	14.7	22.6		4.9	6.9	12.0	20.3	
	1000	100	*	*	2.7	4	*	*	*	*	*	*	*	*	*	*	*	*	*
		250	4.7	6.7	10.3	16.9	2.2	2.8	4.3	6.0	*	*	*	2.2	*	*	*	*	*
		500	14.1	21.0			8.1	10.8	15.0	21.2	2.0	2.9	4.4	7.1	*	*	2.1	4.6	
		750					17.7	23.0	32.3	42.8	4.7	6.9	10.3	15.4	*	2.9	4.9	8.7	
		1000					31.0	37.0	53.0	68.5	8.6	11.8	17.4		3.1	5.2	8.8	14.4	
	1500					65.5	82.0			19.1				7.7	11.8	19.4			

Delivery Pressure Pound Per Square Inch	Acetylene Flow SCFH	Pressure Drop Pound Per Square Inch																
		3/16" Hose				1/4" Hose				5/16" Hose				3/8" Hose				
		Hose Length in Feet																
		12.5	25	50	100	12.5	25	50	100	12.5	25	50	100	12.5	25	50	100	
Acetylene Hose	5	25	0.3	0.5	1.0	1.8	**	**	0.5	0.8	**	**	**	0.3	**	**	**	**
		50	1.2	2.0	3.2		0.5	0.9	1.3	2.4	**	0.3	0.4	0.7	**	**	0.3	0.4
		75	2.6	3.9			1.2	1.8	2.6	4.5	0.4	0.5	0.8	1.4	**	0.3	0.5	0.8
		100	4.3				1.9	2.8	4.4		0.5	0.8	1.3	2.4	0.3	0.4	0.7	1.1
		150					4.0				1.2	1.7	2.7	4.8	0.5	0.8	1.2	2.2
	10	25	0.3	0.5	0.8	1.4	**	**	0.3	0.7	**	**	**	**	**	**	**	**
		50	0.9	1.6	2.5	4.9	0.5	0.7	1.1	2.0	**	**	0.3	0.6	**	**	**	0.3
		75	2.0	3.1	6.3		0.9	1.4	2.2	3.7	0.3	0.4	0.5	0.6	**	**	0.3	0.6
		100	4.5	5.4			1.6	2.0	3.6	6.0	0.4	0.6	0.9	2.2	**	0.3	0.5	1.9
		150	7.0				3.2	4.5	7.3		0.9	1.3	2.1	3.9	0.4	0.6	1.0	2.5
	14	25	**	0.4		1.3	**	**	0.3	0.6	**	**	**	**	**	**	**	**
		50	0.8	1.4		4.6	0.4	0.6	0.9	1.6	**	**	**	0.4	**	**	**	0.3
		75	1.9	2.9		10.0	0.8	1.2	1.9	3.0	**	0.3	0.5	1.0	**	**	0.3	0.5
		100	3.5	5.1			1.4	2.0	3.0	4.7	0.3	0.6	0.7	1.7	**	0.3	0.4	0.8
		150	7.9				2.9	4.0	6.0	8.7	0.8	1.2	1.7	3.4	0.3	0.5	0.9	1.6
	250					7.4	9.5			2.0	3.1	4.5	8.1	0.7	1.2	2.3	3.8	
	500									8.7	10.5	13.7		2.9	4.0	8.1	11.5	

*Indicates pressure drop of less than 2.0 per sq. in.

**Indicates pressure drop of less than 0.2 per sq. in.

To obtain the recommended inlet pressure at the equipment, add the pressure drop figure (shown above) to the delivery pressure at the regulator. Do not exceed 15 PSIG for acetylene.

Regulator Selection Quick Reference Guide - By Gas Service

Oxygen

Description	Model	Part Number	Delivery Range (PSIG)	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESS7 High Capacity Single Stage	ESS7-125-540	0781-5181	5-125	4000	200	540	7/8" - 14 M RH	3000	20
ESS7 High Capacity Single Stage	ESS7-200-540	0781-5183	10-200	4000	400	540	7/8" - 14 M RH	3000	20
ESS4 High Capacity Single Stage	ESS4-40-540	0781-5154	2-40	4000	60	540	9/16" - 18 M RH	3000	21
ESS4 High Capacity Single Stage	ESS4-125-540	0781-5127	5-125	4000	200	540	9/16" - 18 M RH	3000	21
ESS4 High Capacity Single Stage	ESS4-200-540	0781-5131	10-200	4000	400	540	9/16" - 18 M RH	3000	21
ESS3 Medium Capacity Single Stage	ESS3-125-540	0781-5100	5-125	4000	200	540	9/16" - 18 M RH	3000	21
SR 450 Heavy Duty Single Stage	SR-450D-540	0781-0527	5-125	4000	200	540	9/16" - 18 M RH	3000	22
SR 350 Heavy/Medium Single Stage	SR-350D-540	0781-2341	5-125	4000	200	540	9/16" - 18 M RH	3000	23
VTS 700 Extra Heavy Duty Two Stage	VTS700E-540	0780-0939	10-200	4000	400	540	9/16" - 18 M RH	3000	24
ETS4 High Capacity Two Stage	ETS4-40-540	0781-5217	2-40	4000	60	540	9/16" - 18 M RH	3000	25
ETS4 High Capacity Two Stage	ETS4-125-540	0781-5218	5-125	4000	200	540	9/16" - 18 M RH	3000	25
ETS4 High Capacity Two Stage	ETS4-200-540	0781-5219	10-200	4000	400	540	9/16" - 18 M RH	3000	25
VTS 250 Medium Duty Two Stage	VTS250A-540	0781-3503	2-15	4000	30	540	9/16" - 18 M RH	3000	25
VTS 250 Medium Duty Two Stage	VTS250B-540	0781-3504	2-40	4000	60	540	9/16" - 18 M RH	3000	25
VTS 250 Medium Duty Two Stage	VTS250C-540	0781-3505	4-80	4000	100	540	9/16" - 18 M RH	3000	25
VTS 250 Medium Duty Two Stage	VTS250D-540	0781-3506	5-125	4000	200	540	9/16" - 18 M RH	3000	25
SR 4 High Pressure	SR4F-540	0781-1405	30-750	4000	1000	540	1/4" Swaglok®	3000	26
SR 4 High Pressure	SR4G-540	0781-1425	100-1500	4000	2000	540	1/4" Swaglok®	3000	26
SR 4 High Pressure	SR4J-540	0781-1445	200-3000	4000	4000	540	1/4" Swaglok®	3000	26
SR 600 High Pressure	SR600-550-540	0781-1610	5-550	6000	1000	540	1/4" Swaglok®	3000	27
ELC4 High Capacity Liquid Cylinder	ELC4-125-540R	0781-5199	5-125	--	200	540	9/16" - 18 M RH	3000	28
ESL4 High Capacity Line	ESL4-125-250	0781-5190	5-125	--	200	1/4" NPT	1/4" NPT F	3000	29
EST4 High Capacity Station	EST4-40-024	0781-5191	2-40	--	60	024	9/16" - 18 M RH	200	29
EST4 High Capacity Station	EST4-40-024R	0781-5204	2-40	--	60	024	9/16" - 18 M RH	200	29
EST4 High Capacity Station	EST4-80-024	0791-5192	4-80	--	100	024	9/16" - 18 M RH	200	29
EST4 High Capacity Station	EST4-80-024R	0781-5205	4-80	--	100	024	9/16" - 18 M RH	200	29
EST4 High Capacity Station	EST4-125-024	0781-5193	5-125	--	200	024	9/16" - 18 M RH	200	29
EST4 High Capacity Station	EST4-125-024R	0781-5206	5-125	--	200	024	9/16" - 18 M RH	200	29
L700 High Flow Line	L700C-500	0780-1229	4-80	--	100	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700C-750	0780-1220	4-80	--	100	3/4" NPT F	3/4" NPT F	350	30
L700 High Flow Line	L700D-500	0780-1207	5-125	--	200	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700D-500PMT	0780-1236	5-125	--	200	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700D-750	0780-1209	5-125	--	200	3/4" NPT F	3/4" NPT F	350	30
L700 High Flow Line	L700E-500	0780-1221	10-200	--	400	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700E-750	0780-1222	10-200	--	400	3/4" NPT F	3/4" NPT F	350	30
DL700 Dome Load	DL700	0780-1188	5-125	--	--	1/2" NPT F	1/2" NPT F	500	31
BSL Bulk System Line	BSL700	0780-1200	10-200	--	400	1/2" NPT F	1/2" NPT F	350	31

REGULATORS



Regulators

GENERAL INFORMATION

Regulator Selection Quick Reference Guide - By Gas Service

Acetylene

Description	Model	Part Number	Delivery Range (PSIG)	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESS7 High Capacity Single Stage	ESS7-15-510	0781-5187	2-15	400	30	510	7/8" – 14 LH	3000	20
ESS7 High Capacity Single Stage	ESS7-200-350	0781-5186	10-200	4000	400	350	7/8" – 14 M LH	3000	20
ESS4 High Capacity Single Stage	ESS4-15-300	0781-5133	2-15	400	30	300	9/16" – 18 M LH	3000	21
ESS4 High Capacity Single Stage	ESS4-15-410	0781-4140	2-15	400	30	410	9/16" – 18 M LH	3000	21
ESS4 High Capacity Single Stage	ESS4-15-510	0781-5132	2-15	400	30	510	9/16" – 18 M LH	3000	21
ESS4 High Capacity Single Stage	ESS4-15-993	0781-5134	2-15	400	30	993	9/16" – 18 M LH	3000	21
ESS4 High Capacity Single Stage	ESS4-15-510	0781-5150	2-15	400	30	510	9/16" – 18 M LH	3000	21
ESS3 Medium Capacity Single Stage	ESS3-15-300	0781-5106	2-15	400	30	300	9/16" – 18 M LH	3000	21
ESS3 Medium Capacity Single Stage	ESS3-15-510	0781-5105	2-15	400	30	510	9/16" – 18 M LH	3000	21
SR 450 Heavy Duty Single Stage	SR460A-300	0781-0583	2-15	400	30	300	9/16" – 18 M LH	3000	22
SR 450 Heavy Duty Single Stage	SR460A-510	0781-0584	2-15	400	30	510	9/16" – 18 M LH	3000	22
SR 350 Heavy/Medium Single Stage	SR360A-300	0781-2400	2-15	400	30	300	9/16" – 18 M LH	3000	23
SR 350 Heavy/Medium Single Stage	SR360A-510	0781-2401	2-15	400	30	510	9/16" – 18 M LH	3000	23
SR 250 Medium Duty Single Stage	SR260A-300	0781-0085	2-15	400	30	300	9/16" – 18 M LH	3000	23
SR 250 Medium Duty Single Stage	SR260A-510	0781-0087	2-15	400	30	510	9/16" – 18 M LH	3000	23
VTS 700 Extra Heavy Duty Two Stage	VTS710A-510	0780-0984	2-15	400	30	510	7/8" – 14 M LH	3000	24
ETS4 High Capacity Two Stage	ETS4-15-300	0781-5229	2-15	400	30	300	9/16" – 18 M LH	3000	29
ETS4 High Capacity Two Stage	ETS4-15-510	0781-5230	2-15	400	30	510	9/16" – 18 M LH	3000	29
ETS4 High Capacity Two Stage	ETS4-15-993	07815-2122	2-15	400	30	993	9/16" – 18 M LH	3000	29
VTS 250 Medium Duty Two Stage	VTS260A-300	0781-3583	2-15	400	30	300	9/16" – 18 M LH	3000	25
VTS 250 Medium Duty Two Stage	VTS260A-510	0781-3484	2-15	400	30	300	9/16" – 18 M LH	3000	25
ESL4 High Capacity Line	ELS4-15-250A	0781-5208	2-15	--	30	1/4" NPT F	1/4" NPT F	350	29
EST4 High Capacity Station	EST4-15-025	0781-5194	2-15	--	30	025	9/16" – 18 M LH	200	29
EST4 High Capacity Station	EST4-15-025R	0781-5209	2-15	--	30	025	9/16" – 18 M LH	200	29
L700 High Flow Line	L710A-500	0780-1233	2-15	--	30	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L710A-750	0780-1201	2-15	--	30	3/4" NPT F	3/4" NPT F	350	30

REGULATORS

Regulator Selection Quick Reference Guide - By Gas Service

Air

Description	Model	Part Number	Delivery Range (PSIG)	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESS4 High Capacity Single Stage	ESS4-125-346	0781-5142	5-125	4000	200	346	5/8" - 18 F LH	3000	21
ESS4 High Capacity Single Stage	ESS4-200-346	0781-5145	10-200	4000	400	346	5/8" - 18 F LH	3000	21
ESS3 Medium Capacity Single Stage	ESS3-125-346	0781-5115	5-125	4000	200	346	5/8" - 18 F LH	3000	21
SR 450 Heavy Duty Single Stage	SR450D-346	0781-0532	5-125	4000	200	346	5/8" - 18 F LH	3000	22
ETS4 High Capacity Two Stage	ETS4-125-346	0781-5231	5-125	4000	200	346	5/8" - 18 F LH	3000	29
ETS4 High Capacity Two Stage	ETS4-200-346	0781-5232	10-200	4000	400	346	5/8" - 18 F LH	3000	29
ETS4 High Capacity Two Stage	ETS4-125-590	0781-5224	5-125	4000	200	346	5/8" - 18 F LH	3000	29
VTS 250 Medium Duty Two Stage	VTS250C-346	0781-3510	4-80	4000	100	346	5/8" - 18 F LH	3000	25
VTS 250 Medium Duty Two Stage	VTS250D-346	0781-3512	5-125	4000	200	346	5/8" - 18 F LH	3000	25
SR 4 High Pressure	SR4F-347	0781-1403	50-750	6000	1000	347	1/4" Swagelok®	5500	26
SR 4 High Pressure	SR4G-346	0781-1422	100-1500	4000	2000	346	1/4" Swagelok®	3000	26
SR 4 High Pressure	SR4J-346	0781-1442	200-3000	4000	4000	346	1/4" Swagelok®	3000	26
SR 4 High Pressure	SR4K-347	0781-1463	300-4500	6000	6000	347	1/4" Swagelok®	5500	26
SR 600 High Pressure	SR600-350-347	0781-1605	5-350	6000	600	347	1/4" Swagelok®	5500	27
ESL4 High Capacity Line	ELS4-125-250	0781-5190	5-125	--	200	1/4" NPT F	1/4" NPT F	3000	29
L700 High Flow Line	L700C-500	0780-1229	4-80	--	100	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700C-750	0780-1220	4-80	--	100	3/4" NPT F	3/4" NPT F	350	30
L700 High Flow Line	L700D-500	0780-1207	5-125	--	200	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700D-500PMT	0780-1236	5-125	--	200	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700D-750	0780-1209	5-125	--	200	3/4" NPT F	3/4" NPT F	350	30
L700 High Flow Line	L700E-500	0780-1221	10-200	--	400	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700E-750	0780-1222	10-200	--	400	3/4" NPT F	3/4" NPT F	350	30
DL700 Dome Load	DL700	0780-1188	5-125	--	--	1/2" NPT F	1/2" NPT F	500	31

REGULATORS



Regulators

GENERAL INFORMATION

Regulator Selection Quick Reference Guide - By Gas Service

Inert Gas - Nitrogen, Argon, Helium

REGULATORS

Description	Model	Part Number	Delivery Range (PSIG)	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESS7 High Capacity Single Stage	ESS7-125-580	0781-5182	5-125	4000	200	580	7/8" - 14 M RH	3000	20
ESS7 High Capacity Single Stage	ESS7-200-580	0781-5185	10-200	4000	400	580	7/8" - 14 M RH	3000	20
ESS4 High Capacity Single Stage	ESS4-125-580	0781-5143	5-125	4000	200	580	5/8" - 18 F RH	3000	21
ESS4 High Capacity Single Stage	ESS4-200-580	0781-5144	10-200	4000	400	580	5/8" - 18 F RH	3000	21
ESS3 Medium Capacity Single Stage	ESS3-40-580	0781-5122	2-40	4000	60	580	5/8" - 18 F RH	3000	21
ESS3 Medium Capacity Single Stage	ESS3-125-580	0781-5116	5-125	4000	200	580	5/8" - 18 F RH	3000	21
SR 450 Heavy Duty Single Stage	SR450D-580	0781-0528	5-125	4000	200	580	5/8" - 18 F RH	3000	22
SR 450 Heavy Duty Single Stage	SR450E-580	0781-0543	10-200	4000	400	580	5/8" - 18 F RH	3000	22
VTS Extra Heavy Duty Two Stage	VTS700D-580	0780-0928	5-125	4000	200	580	7/8" - 14 M RH	3000	24
VTS Extra Heavy Duty Two Stage	VTS700E-580	0780-0943	10-200	4000	400	580	7/8" - 14 M RH	3000	24
ETS4 High Capacity Two Stage	ETS4-40-580	0781-5221	2-40	4000	60	580	5/8" - 18 F RH	3000	29
ETS4 High Capacity Two Stage	ETS4-125-580	0781-5222	5-125	4000	200	580	5/8" - 18 F RH	3000	29
ETS4 High Capacity Two Stage	ETS4-200-580	0781-5223	10-200	4000	400	580	5/8" - 18 F RH	3000	29
VTS 250 Medium Duty Two Stage	VTS250A-580	0781-3507	2-15	4000	30	580	5/8" - 18 F RH	3000	25
VTS 250 Medium Duty Two Stage	VTS250B-580	0781-3508	2-40	4000	60	580	5/8" - 18 F RH	3000	25
VTS 250 Medium Duty Two Stage	VTS250C-580	0781-3509	4-80	4000	100	580	5/8" - 18 F RH	3000	25
VTS 250 Medium Duty Two Stage	VTS250D-580	0781-3513	5-125	4000	200	580	5/8" - 18 F RH	3000	25
SR 4 High Pressure	SR4F-580	0781-1408	50-750	4000	1000	580	1/4" Swagelok®	3000	26
SR 4 High Pressure	SR4F-680	0781-1410	50-750	6000	1000	680	1/4" Swagelok®	5500	26
SR 4 High Pressure	SR4G-580	0781-1428	100-1500	4000	2000	580	1/4" Swagelok®	3000	26
SR 4 High Pressure	SR4G-680	0781-1430	100-1500	6000	2000	680	1/4" Swagelok®	5500	26
SR 4 High Pressure	SR4J-580	0781-1448	200-3000	4000	4000	580	1/4" Swagelok®	3000	26
SR 4 High Pressure	SR4J-680	0781-1450	200-3000	6000	4000	680	1/4" Swagelok®	5500	26
SR 4 High Pressure	SR4J-677	0781-1453	200-3000	7500	4000	677	1/4" Swagelok®	7500	26
SR 4 High Pressure	SR4K-680	0781-1470	300-4500	6000	6000	680	1/4" Swagelok®	5500	26
SR 4 High Pressure	SR4K-677	0781-1473	300-4500	7500	6000	677	1/4" Swagelok®	7500	26
SR 600 High Pressure	SR600-350-580	0781-1601	5-350	6000	600	580	1/4" Swagelok®	5500	27
SR 600 High Pressure	SR600-350-680	0781-1604	5-350	6000	600	680	1/4" Swagelok®	5500	27
SR 600 High Pressure	SR600-550-580	0781-1611	5-550	6000	1000	580	1/4" Swagelok®	3000	27
ELC4 Liquid Cylinder	ELC4-125-580R	0781-5200	5-125	--	200	580	CGA 032 5/8" - 18 UNF	3000	28
ELC4 Liquid Cylinder	ELC4-325-580R	0781-5202	5-325	--	400	580	CGA 032 5/8" - 18 UNF	3000	28
EST4 High Capacity Station	EST4-125-034	0781-5189	5-125	--	200	034	CGA 032 5/8" - 18 UNF	200	29
EST4 High Capacity Station	EST4-125-034R	0781-5207	5-125	--	200	034	CGA 032 5/8" - 18 UNF	200	29
L700 High Flow Line	L700C-500	0780-1229	4-80	--	100	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700C-750	0780-1220	4-80	--	100	3/4" NPT F	3/4" NPT F	350	30
L700 High Flow Line	L700D-500	0780-1207	5-125	--	200	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700D-500PMT	0780-1236	5-125	--	200	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700D-750	0780-1209	--	--	200	3/4" NPT F	3/4" NPT F	350	30
L700 High Flow Line	L700E-500	0780-1221	10-200	--	400	1/2" NPT F	1/2" NPT F	350	30
L700 High Flow Line	L700E-750	0780-1222	10-200	--	400	3/4" NPT F	3/4" NPT F	350	30
DL700 Dome Load	DL700	0780-1188	5-125	--	--	1/2" NPT F	1/2" NPT F	500	31
BSL Bulk System Line	BSL700	0780-1200	10-200	--	--	1/2" NPT F	1/2" NPT F	350	31
ESS3-FG Flow Gauge	ESS3-FG-580	0781-5120	0-40	4000	50 CFH	580	CGA 032 5/8" - 18 UNF	3000	32

Regulator Selection Quick Reference Guide - By Gas Service

Inert Gas - Nitrogen, Argon, Helium (continued)

Description	Model	Part Number	Delivery Range	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESS3-FG Flow Gauge	ESS3-FG-580	0781-5120	0-40 PSIG	4000	50 CFH	580	CGA 032 5/8" - 18 UNF	3000	32
SLR 100 Surge Limiting Regulator	SLR100	0781-1197		--	--	030		200	34
FM150 Flow Meter Heavy Duty	FM150	1000-0268	10-60 Air* 10-30 Nit*	--	--	1/4" NPT M	5/8"-18 RH F	25	35
FM135 Flow Meter Heavy Duty	FM135	1000-0255	4-18 Argon* 10-50 Helium*	--	--	9/16"-18 RH F	5/8"-18 RH F	25	35
FM145 Flow Meter Heavy Duty	FM145	1000-0256	4-18 Argon* 10-50 Helium*	--	--	5/8" RH M	5/8"-18 RH F	25	35
FM155 Flow Meter Heavy Duty	FM155	1000-0257	4-18 Argon* 10-50 Helium*	--	--	5/8" NPT M	5/8"-18 RH F	25	35
FM137 Flow Meter Heavy Duty	FM137	1000-0261	15-65 Argon* 40-200 Helium*	--	--	9/16"-18 RH F	5/8"-18 RH F	25	35
FM147 Flow Meter Heavy Duty	FM147	1000-0262	15-70 Argon* 40-200 Helium*	--	--	5/8"-18 RH M	5/8"-18 RH F	25	35
FM157 Flow Meter Heavy Duty	FM157	1000-0263	15-65 Argon* 40-200 Helium*	--	--	1/4" NPT M	5/8"-18 RH F	25	35
FM370 Flow Meter Heavy Duty	FM370	1000-0258	5-50 Argon* 20-150 Helium*	--	--	9/16"-18 RH F	5/8"-18 RH F	25	35
FM371 Flow Meter Heavy Duty	FM371	1000-0259	5-50 Argon* 20-150 Helium*	--	--	5/8"-18 RH M	5/8"-18 RH F	25	35
FM372 Flow Meter Heavy Duty	FM372	1000-0182	5-50 Argon* 20-150 Helium*	--	--	1/4" NPT M	5/8"-18 RH F	25	37
HRF 2425 Medium Duty Flow Meter Regulator	HRF2425	0781-2731	10-50 Argon* 20-150 Helium*	--	--	580	5/8"-18 RH F	3000	36
HRF2480 Medium Duty Flow Meter Regulator	HRF2480	0781-2728	7.5-37.5 Argon*	--	--	580	5/8"-18 RH F	3000	36
DFM 150 Medium Duty Flow Meter Regulator	DFM150-580	0781-1153	5-50 Argon* 20-150 Helium*	--	--	580	5/8"-18 RH F	3000	36
HSR Medium Duty Flow Meter Regulator Single Stage	HSR2530	0781-3819	10-60 Nitrogen*	--	--	580	5/8"-18 RH F	3000	37
HSR Medium Duty Flow Meter Regulator Single Stage	HSR2535	0781-3867	4-18 Argon* 10-50 Helium*	--	--	580	5/8"-18 RH F	3000	37
HVTS Medium Duty Flow Meter Regulator Two Stage	HVTS2535	0781-3775	4-18 Argon* 10-50 Helium*	--	--	580	5/8"-18 RH F	3000	37
HSR Medium Duty Flow Meter Regulator Single Stage	HSR2537	0781-3871	15-65 Argon* 40-400 Helium*	--	--	580	5/8"-18 RH F	3000	37
HVTS Medium Duty Flow Meter Regulator Two Stage	HVTS2537	0781-3772	15-65 Argon* 40-400 Helium*	--	--	580	5/8"-18 RH F	3000	37
HSR Medium Duty Flow Meter Regulator Single Stage	HSR2570	0781-3873	5-50*	--	--	580	5/8"-18 RH F	3000	37
HSR Medium Duty Flow Meter Regulator Single Stage	HSR2570	0781-3869	4-40*	--	--	580	5/8"-18 RH F	3000	37
HVTS Medium Duty Flow Meter Regulator Two Stage	HVTS2570	0781-3774	20-150*	--	--	580	5/8"-18 RH F	3000	37

*Delivery range measured in CFH



YELLOW
RED
GREEN
BLACK
GRAY
ORANGE

Air Acetylene Oxygen Inert Gas Carbon Dioxide LPG

Regulators

GENERAL INFORMATION

Regulator Selection Quick Reference Guide - By Gas Service

British Oxygen

Description	Model	Part Number	Delivery Range (PSIG)	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESS7 High Capacity Single Stage	ESS7-200-992	0781-5220	10-200	4000	400	992	7/8" - 14 M RH	3000	20
ESS4 High Capacity Single Stage	ESS4-200-992	0781-5155	10-200	4000	400	992	9/16" - 18 M RH	3000	21
ESS4 High Capacity Single Stage	ESS4-125-992	0781-5128	5-125	4000	200	992	9/16" - 18 M RH	3000	21
ETS4 High Capacity Two Stage	ETS4-125-992	0785-2120	5-125	4000	200	992	9/16" - 18 M RH	3000	25
ETS4 High Capacity Two Stage	ETS4-200-992	0785-2121	10-200	4000	400	992	9/16" - 18 M RH	3000	25
DL700 Dome Load	DL700	0780-1188	5-125	--	--	1/2" NPT F	1/2" NPT F	500	31

Methane/Hydrogen

Description	Model	Part Number	Delivery Range (PSIG)	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESS7 High Capacity Single Stage	ESS7-200-350	0781-5186	10-200	4000	400	350	7/8" - 14 M RH	3000	20
ESS4 High Capacity Single Stage	ESS4-125-350	0781-5137	5-125	4000	200	350	9/16" - 18 M LH	3000	21
ESS4 High Capacity Single Stage	ESS4-200-350	0781-5138	10-200	4000	400	350	9/16" - 18 M LH	3000	21
ESS3 Medium Capacity Single Stage	ESS3-40-350	0781-5110	2-40	4000	60	350	9/16" - 18 M LH	3000	21
ESS3 Medium Capacity Single Stage	ESS3-125-350	0781-5111	5-125	4000	200	350	9/16" - 18 M LH	3000	21
ETS4 High Capacity Two Stage	ETS4-40-350	0781-5225	2-40	4000	60	350	9/16" - 18 M LH	3000	25
VTS 250 Medium Duty Two Stage	VTS252A-350	0781-3558	2-15	4000	30	350	9/16" - 18 M LH	3000	25
VTS 250 Medium Duty Two Stage	VTS252B-350	0781-3559	2-40	4000	60	350	9/16" - 18 M LH	3000	25
VTS 250 Medium Duty Two Stage	VTS252C-350	0781-3563	4-80	4000	100	350	9/16" - 18 M LH	3000	25
VTS 250 Medium Duty Two Stage	VTS252D-350	0781-3564	5-125	4000	200	350	9/16" - 18 M LH	3000	25
SR 4 High Pressure Manifold	SR4F-350	0781-1404	50-750	4000	1000	350	1/4" Swagelok®	3000	26
SR 4 High Pressure Manifold	SR4G-350	0781-1424	100-1500	4000	2000	350	1/4" Swagelok®	3000	26
SR 4 High Pressure Manifold	SR4J-350	0781-1444	200-3000	4000	4000	350	1/4" Swagelok®	3000	26
ESL4 High Capacity Line	ESL4-80-250F	0781-5210	4-80	--	100	1/4" NPT F	1/4" NPT F	3000	29
ESL4 High Capacity Line	ESL4-125-250F	0781-5211	5-125	--	200	1/4" NPT F	1/4" NPT F	3000	29
EST4 High Capacity Station	EST4-80-025	0781-5195	4-80	--	100	025	9/16" - 18 M LH	200	29
EST4 High Capacity Station	EST4-80-025R	0781-5212	4-80	--	100	025	9/16" - 18 M LH	200	29
EST4 High Capacity Station	EST4-125-025	0781-5196	5-125	--	200	025	9/16" - 18 M LH	200	29
EST4 High Capacity Station	EST4-125-025R	0781-5213	5-125	--	200	025	9/16" - 18 M LH	200	29
L700 High Flow Line	L711D-500	0780-1199	5-125	--	200	1/2" NPT F	1/2" NPT F	350	30
HSR Medium Duty Flow Meter Regulator Single Stage	HSR2533	0781-3825	5-40*	--	--	350	9/16" - 18 M LH	3000	37

*Delivery range measured in CFH

Nitrous Oxide

Description	Model	Part Number	Delivery Range (PSIG)	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESL4 High Capacity Line	ESL4-125-250	0781-5190	5-125	--	200	1/4" NPT F	1/4" NPT F	3000	29
DL700 Dome Load	DL700	0780-1188	5-125	--	--	1/2" NPT F	1/2" NPT F	500	30



YELLOW Air
 RED Acetylene
 GREEN Oxygen
 BLACK Inert Gas
 GRAY Carbon Dioxide
 ORANGE LPG

REGULATORS

Regulator Selection Quick Reference Guide - By Gas Service

Carbon Dioxide

Description	Model	Part Number	Delivery Range (PSIG)	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESS4 High Capacity Single Stage	ESS4-200-320	0781-5147	10-200	4000	400	320	CGA 032 5/8" - 18 UNF	3000	21
ESS3 Medium Capacity Single Stage	ESS3-125-320	0781-5121	5-125	4000	200	320	CGA 032 5/8" - 18 UNF	3000	21
ETS4 High Capacity Two Stage	ETS4-125-320	0781-5228	5-125	4000	200	320	CGA 032 5/8" - 18 UNF	3000	25
VTS 250 Medium Duty Two Stage	VTS253A-320	0781-3569	2-15	4000	30	320	CGA 032 5/8" - 18 UNF	3000	25
VTS 250 Medium Duty Two Stage	VTS253B-320	0781-3573	2-40	4000	60	320	CGA 032 5/8" - 18 UNF	3000	25
VTS 250 Medium Duty Two Stage	VTS253C-320	0781-3574	4-80	4000	100	320	CGA 032 5/8" - 18 UNF	3000	25
VTS 250 Medium Duty Two Stage	VTS253D-320	0781-3575	5-125	4000	200	320	CGA 032 5/8" - 18 UNF	3000	25
SR 4 High Pressure Manifold	SR4F-320	0781-1401	50-750	4000	1000	320	CGA 032 5/8" - 18 UNF	3000	26
ELC4 High Capacity Liquid Cylinder	ELC4-125-320R	0781-5201	5-125	--	200	320	CGA 032 5/8" - 18 UNF	3000	28
ESL4 High Capacity Line	ESL4-125-250	0781-5190	5-125	--	200	1/4" NPT F	1/4" NPT F	3000	29
DL700 Dome Load	DL700	0780-1188	5-125	--	--	1/2" NPT F	1/2" NPT F	500	30
ESS3-FG Flow Gauge	ESS3-FG-320	0781-5119	0-40*	4000	50 CFH	320	CGA 032 5/8" - 18 UNF	3000	32
SR310 Regulator Adjustable Pressure	SR310	0781-0355	10-150*	1500	200	320	CGA 032 5/8" - 18 UNF	1500	33
SR311 Flow Meter	SR311	0781-0353	25-100*	1500	--	320	CGA 032 5/8" - 18 UNF	1500	33
SR312 Flow Gauge	SR312	0781-0354	0-100*	--	--	320	CGA 032 5/8" - 18 UNF	1500	33
FM200 Heavy Duty Flow Meter	FM200	1000-0264	30-100*	--	--	1/4" NPT M	5/8"-18RH M	30	35
FM370 Flow Meter Heavy Duty	FM370	1000-0258	5-40*	--	--	9/16"-18 RH F	5/8"-18 RH F	25	35
FM371 Flow Meter Heavy Duty	FM371	1000-0259	5-40*	--	--	5/8"-18 RH M	5/8"-18 RH F	25	35
FM372 Flow Meter Heavy Duty	FM372	1000-0182	5-40*	--	--	1/4" NPT M	5/8"-18 RH F	25	35
HRF2480 Medium Duty Flow Meter Regulator	HRF2480	0781-2727	10-38*	--	--	320	5/8"-18 RH F	3000	36
HRF2480 Medium Duty Flow Meter Regulator	HRF2480	0781-2728	7.5-37.5*	--	--	320	5/8"-18 RH F	3000	36
DMF150 Medium Duty Flow Meter Regulator	DFM150S	0781-1206	5-40*	--	--	1/4" NPT M	5/8"-18 RH F	3000	36
HSR Medium Duty Flow Meter Regulator	HSR2530	0781-3819	10-60*	--	--	580	5/8"-18 RH F	3000	37

*Delivery Range measured in CFH

L.P. Gas

Description	Model	Part Number	Delivery Range (PSIG)	Gauge Range Inlet	Gauge Range Outlet	CGA Inlet Connection	Outlet Connection	Max Inlet Pressure (PSIG)	Page Number
ESS7 High Capacity Single Stage	ESS7-125-510LP	0781-5188	5-125	400	200	510	7/8" - 14 M LH	350	20
ESS4 High Capacity Single Stage	ESS4-40-510LP	0781-5135	2-40	400	60	510	9/16" - 18 M LH	350	21
ESS4 High Capacity Single Stage	ESS4-125-510LP	0781-5136	5-125	400	200	510	9/16" - 18 M LH	350	21
ESS3 Medium Capacity Single Stage	ESS3-40-510LP	0781-5108	2-40	400	60	510	9/16" - 18 M LH	350	21
ESS3 Medium Capacity Single Stage	ESS3-125-510LP	0781-5109	5-125	400	200	510	9/16" - 18 M LH	350	21
SR450 Heavy Duty Single Stage	SR461B-510	0781-0589	2-40	400	60	510	9/16" - 18 M LH	350	22
SR450 Heavy Duty Single Stage	SR461D-510	0781-0595	5-125	400	200	510	9/16" - 18 M LH	350	22
SR 250 Medium Duty Single Stage	SR261B-510	0781-0095	2-40	400	60	510	9/16" - 18 M LH	350	23
SR 250 Medium Duty Single Stage	SR261C-510	0781-0098	4-80	400	100	510	9/16" - 18 M LH	350	23
VTS 250 Medium Duty Two Stage	VTS261B-510	0781-3594	2-40	400	60	510	9/16" - 18 M LH	350	25
VTS 250 Medium Duty Two Stage	VTS250BL-555	0781-3525	2-40	400	60	510	9/16" - 18 M LH	350	25
ESL4 High Capacity Line	ESL4-80-250F	0781-5210	4-80	--	100	1/4" NPT F	1/4" NPT F	3000	29
ESL4 High Capacity Line	ESL4-125-250F	0781-5211	5-125	--	200	1/4" NPT F	1/4" NPT F	3000	29
EST4 High Capacity Station	EST4-80-025	0781-5195	4-80	--	100	025	9/16" - 18 M LH	200	29
EST4 High Capacity Station	EST4-80-025R	0781-5212	4-80	--	100	025	9/16" - 18 M LH	200	29
EST4 High Capacity Station	EST4-125-025	0781-5196	5-125	--	20	025	9/16" - 18 M LH	200	29
EST4 High Capacity Station	EST4-125-025R	0781-5213	5-125	--	200	025	9/16" - 18 M LH	200	29
L700 High Flow Line	L711D-500	0780-1199	5-125	--	200	1/2" NPT F	1/2" NPT F	350	30

Regulators

SINGLE STAGE

EDGE™ Series

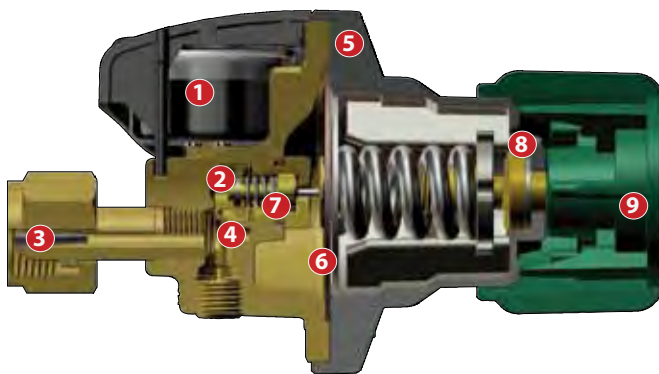
Innovative new EDGE™

Series Regulators Offer Safety and Advanced Design



Victor® has been the leader in gas equipment for close to a century, and its tradition of unparalleled safety remains a cornerstone of the brand today. With the Victor Professional EDGE Series Regulators, Victor continues to offer the safest, most reliable and highest quality gas control technology, giving you more value for your purchase. In addition, standardized designs and components throughout the EDGE family greatly simplify regulator service and repair.

REGULATORS



- 1 Gauges are recessed into the body for the highest level of safety and protection possible
- 2 More efficient internal flow paths translate to improved flow consistency from full to empty cylinder
- 3 Same sintered inlet filter used in all Victor industrial regulators
- 4 Innovative design elements enable the regulator to meet or exceed oxygen-related safety standards CGA E-4, UL 252, and the stringent ASTM G-175 Promoted Ignition Test
- 5 Housing cap is made from high strength zinc-aluminum alloy that has nearly twice the yield strength of forged brass
- 6 Time-tested fabric reinforced neoprene diaphragm provides superior sensitivity and control
- 7 Seat assembly and friction damper are the same tried and true components used for decades in SR 350 and SR 450
- 8 Internals remain protected from weather elements through an internal vent system protected under the knob, which is channeled to promote water run-off
- 9 SLAM™ Knob designed with multi-stage crumple zones which absorb impact energy in the event the cylinder falls over. Helps protect pressure integrity of both regulator and cylinder valve.



ADDITIONAL FEATURES

- Forged brass body
- External self reseating relief valve. Not designed to protect downstream equipment (no relief valve is needed on low pressure fuel gas models).

U.S. Customer Care: 1-800-426-1888 / FAX 1-800-535-0557
 Canada Customer Care: 1-905-827-4515 / FAX 1-800-588-1714

ESS7

High Flow

DESIGN/CONSTRUCTION

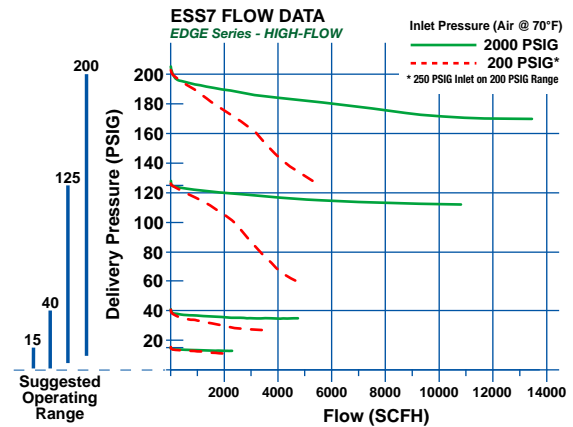
- 2.5" (63.5 mm) gauges – brass
- 2.7" (68.6 mm) diaphragm – fabric reinforced neoprene

DIMENSIONS

6.8"W x 6.9"H x 5.4"D
 (172.7 mm x 175.3 mm x 137.1 mm)

WEIGHT

4.9 lb. (2.22 kg)



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Air, Oxygen, Inert Gas	0781-5184	ESS7-200-346	10-200
	0781-5181	ESS7-125-540	5-125
	0781-5183	ESS7-200-540	10-200
	0781-5220	ESS7-200-992	10-200
	0781-5182	ESS7-125-580	5-125
	0781-5185	ESS7-200-580	10-200
Methane/Hydrogen	0781-5186	ESS7-200-350	10-200
Acetylene	0781-5187	ESS7-15-510	2-15
L.P. Gas	0781-5188	ESS7-125-510LP	5-125



EDGE ADJUSTING LOCK



PART NO: 0750-0221

Ideal for setting pressures and avoiding tampering by others. Comes with three color decals - red, green, black.



ESS4 High Capacity

DESIGN/CONSTRUCTION

- High impact ABS gauge guard
- 1.5" (40 mm) gauges – steel
- 2.7" (68.6 mm) diaphragm – fabric reinforced neoprene

DIMENSIONS

6.8" W x 4.4" H x 3.9" D
(172.7 mm x 111.8 mm x 99.1 mm)

WEIGHT

4.0 lb. (1.81kg)



ESS3 Medium Capacity

DESIGN/CONSTRUCTION

- High impact ABS gauge guard
- 1.5" (40 mm) gauges – steel
- 2" (50.8 mm) diaphragm – fabric reinforced neoprene.

DIMENSIONS

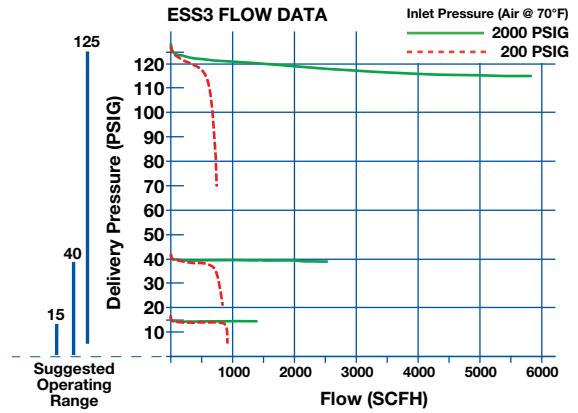
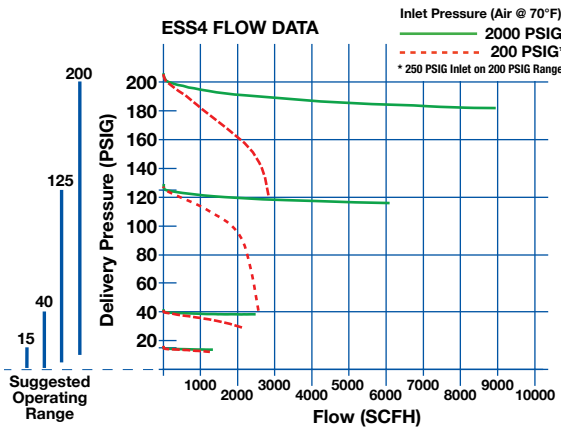
6.6"W x 4.4"H x 3.6"D
(167.6 mm x 111.8 mm x 91.4 mm)

WEIGHT

3.5 lb. (1.59 kg)



REGULATORS

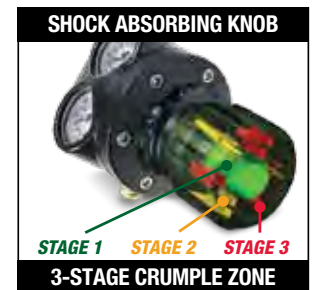


Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Air, Oxygen, Inert Gas	0781-5142	ESS4-125-346	5-125
	0781-5145	ESS4-200-346	10-200
	0781-5154	ESS4-40-540	2-40
	0781-5127	ESS4-125-540	5-125
	0781-5161	ESS4-125-540L	5-125
	0781-5131	ESS4-200-540	10-200
	0781-5143	ESS4-125-580	5-125
	0781-5144	ESS4-200-580	10-200
	0781-5152	ESS4-200-580L	10-200
	0781-5146	ESS4-125-590	5-125
British Oxygen	0781-5128	ESS4-125-992	5-125
	0781-5155	ESS4-200-992	10-200
Methane/Hydrogen	0781-5137	ESS4-125-350	5-125
	0781-5138	ESS4-200-350	10-200
Carbon Dioxide	0781-5147	ESS4-200-320	10-200
Acetylene	0781-5133	ESS4-15-300	2-15
	0781-5160	ESS4-15-300L	2-15
	0781-5140	ESS4-15-410	2-15
	0781-5132	ESS4-15-510	2-15
	0781-5134	ESS4-15-993	2-15
Acetylene (longer swivel)	0781-5159	ESS4-15-510L	2-15
L.P. Gas	0781-5135	ESS4-40-510LP	2-40
	0781-5136	ESS4-125-510LP	5-125

YELLOW	RED	GREEN	BLACK	GRAY	ORANGE
Air	Acetylene	Oxygen	Inert Gas	Carbon Dioxide	LPG

Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Air, Oxygen, Inert Gas	0781-5115	ESS3-125-346	5-125
	0781-5100	ESS3-125-540	5-125
	0781-5122	ESS3-40-580	2-40
	0781-5116	ESS3-125-580	5-125
Acetylene	0781-5106	ESS3-15-300	2-15
	0781-5105	ESS3-15-510	2-15
L.P. Gas	0781-5108	ESS3-40-510LP	2-40
	0781-5109	ESS3-125-510LP	5-125
Methane Hydrogen	0781-5110	ESS3-40-350	2-40
	0781-5111	ESS3-125-350	5-125
Carbon Dioxide	0781-5121	ESS3-125-320	5-125

YELLOW	RED	GREEN	BLACK	GRAY	ORANGE
Air	Acetylene	Oxygen	Inert Gas	Carbon Dioxide	LPG

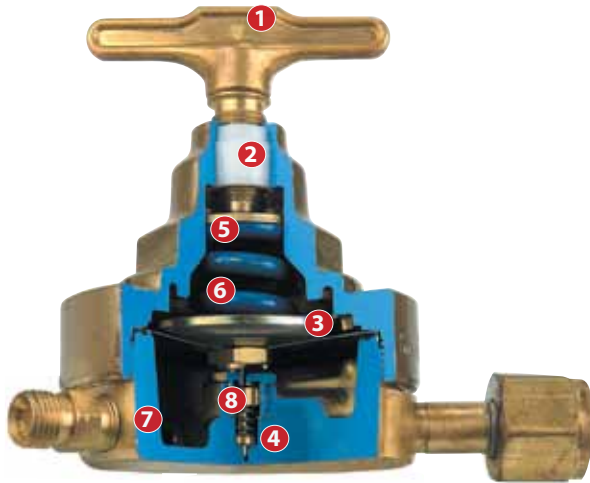


Regulators

SINGLE STAGE

Single Stage Regulators

Recommended for applications where slight delivery pressure increases (due to decreasing cylinder pressures) would not affect the performance characteristics of the work or test results.



Typical Single Stage Design SR 450 Series Shown
2.5" (63.5 mm) Brass Gauges External Relief Valve System

- 1 **Brass Adjusting Screw** with forged T-handle (SR 450 only)
- 2 **Delrin Insert Bushing** for durability, easier adjusting
- 3 **Stainless Steel Diaphragm** gives accurate long lasting service
- 4 **Stem-Type Seat Mechanism** inlet pressure aids in sealing
- 5 **Stainless Ball in Key** for easy adjustment
- 6 **Adjusting Spring** pretested for quality assurance
- 7 **Die-Forged Brass Body** for extra strength
- 8 **Precision Machined Nozzle** for optimum flow control

ADDITIONAL FEATURES

- **External self reseating relief valve** – Not designed to protect downstream equipment (no relief valve is needed on low pressure fuel gas models)
- **Sintered inlet filter** – electroless nickel plated bronze
- **Regulators will deliver** – at least the stated upper range and in some cases may exceed the stated upper range

SR 450

Heavy Duty



DESIGN/CONSTRUCTION

- 2.5" (63.5 mm) gauges – brass
- 3.25" (82.6 mm) diaphragm – stainless steel

DIMENSIONS

7.25 W x 7" H x 5.13" D
(184.2 mm x 177.8 mm x 130.3 mm)

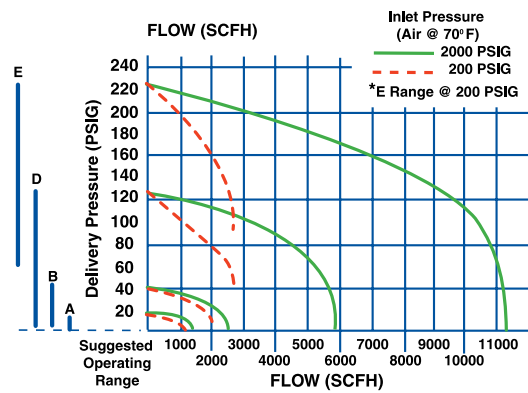
WEIGHT

5 lb. 2 oz. (2.32 kg)

The shape of the SR450 Series regulator is a registered trademark of Victor.

PERFORMANCE

Maximum inlet – 3000 PSIG



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Air, Oxygen, Inert Gas	0781-0532	SR 450D-346	5-125
	0781-0527	SR 450D-540	5-125
	0781-0528	SR 450D-580*	5-125
	0781-0543	SR 450E-580*	10-200
Acetylene	0781-0583	SR 460A-300	2-15
	0781-0584	SR 460A-510	2-15
L.P. Gas	0781-0589	SR 461B-510	2-40
	0781-0595	SR 461D-510	5-125

Outlet Connections: Cylinder Type – 9/16"-18 (M), *9/16"-18 (F) RH

REGULATORS

SR 350 Heavy/Medium Duty

DESIGN/CONSTRUCTION

- 2.5" (63.5 mm) gauges – brass
- 2.75" (69.9 mm diaphragm – fabric reinforced neoprene

DIMENSIONS

7.5" W x 6.5" H x 4.5" D
(190.5 mm x 165.1 mm x 114.3 mm)

WEIGHT

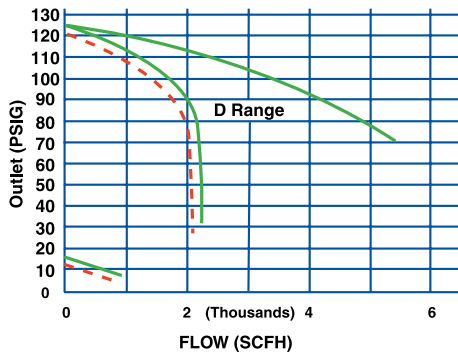
3 lb. 8 oz. (1.59 kg)

PERFORMANCE

Maximum inlet – 3000 PSIG



FLOW DATA (Flowing Air at STD. Conditions)



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Oxygen	0781-2341	SR 350D-540	5-125
Acetylene	0781-2400	SR 360A-300**	2-15
	0781-2401	SR 360A-510	2-15

Outlet Connections: Cylinder Type – 9/16"-18 (M), **9/16"-18 (M) LH

SR 250 Medium Duty

DESIGN/CONSTRUCTION

- 2" (50.8 mm) gauges – brass
- 1.75" (44.5 mm) diaphragm – fabric reinforced neoprene

DIMENSIONS

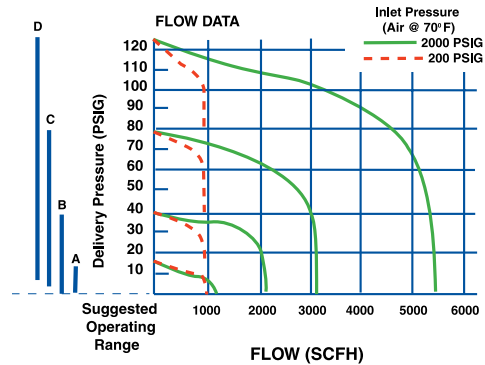
6.38" W x 5.13" H x 4.25" D
(162.0 mm x 130.3 mm x 108.0 mm)

WEIGHT

2 lb. 15 oz. (1.33 kg)

PERFORMANCE

Maximum inlet – 3000 PSIG



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Oxygen	0781-0027	SR 250C-540	4-80
	0781-0043	SR 250D-540	5-125
Acetylene	0781-0085	SR 260A-300	2-15
	0781-0087	SR 260A-510	2-15
	0387-0115	SR 260A-510 CS	2-15
L.P. Gas	0781-0095	SR 261B-510	2-40
	0781-0098	SR 261C-510	4-80

CS = Clamshell Packaging

Outlet Connections: Cylinder Type – 9/16"-18 (M)

Gauge Guards

Gas Service	Part No.	Model No.
Oxygen	1429-0056	SR 450/VTS 450
	1429-0066	SR 350
	1429-0068	SR 250/VTS 250
Acetylene	1429-0057	SR 450/VTS 450
	1429-0067	SR 350
	1429-0069	SR 250/VTS 250



- Protects your gauges
- Color-coded for easy identification

GREEN
Oxygen

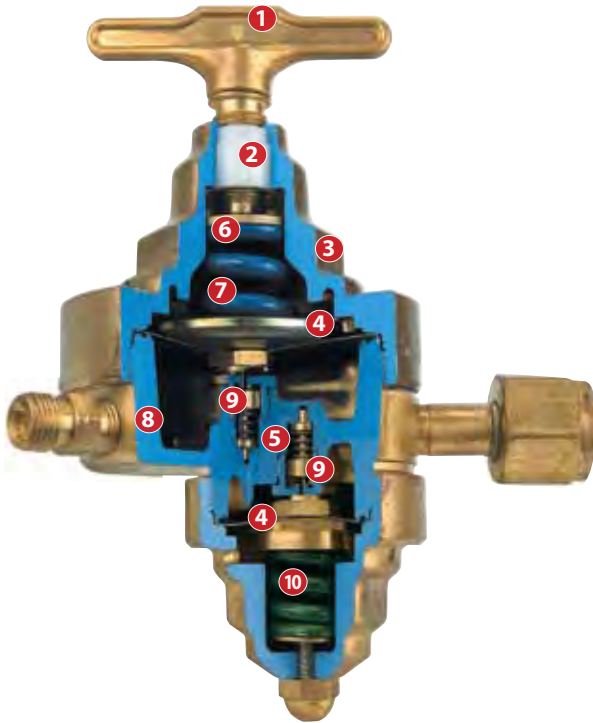
RED
Acetylene

Regulators

TWO STAGE

Two Stage Regulators

Recommended for applications that require a constant delivery pressure over a range of decreasing inlet pressures. This precise two stage regulation provides superior operating characteristics for applications where change in delivery pressure would affect performance characteristics of work or test results.



Typical Two Stage Design VTS 450 Series Shown
2.5" (63.5 mm) Brass Gauges External Relief Valve System

- 1 **Brass Adjusting Screw** with forged T-handle (VTS 700 only)
- 2 **Delrin Insert Bushing** for durability, easier adjusting
- 3 **Die-Forged Brass Spring Housing Cap** provides greater strength and durability
- 4 **Stainless Steel Diaphragm** gives accurate long lasting service
- 5 **Stem-Type Seat Mechanism** inlet pressure aids in sealing
- 6 **Stainless Ball in Key** for easy adjustment
- 7 **Adjusting Spring** pretested for quality assurance
- 8 **Die-Forged Brass Body** for extra strength
- 9 **Precision Machined Nozzle** for optimum flow control
- 10 **Adjusting Spring** designed for precise preset

ADDITIONAL FEATURES

- **External self reseating relief valve** – Not designed to protect downstream equipment (no relief valve is needed on low pressure fuel gas models)
- **Sintered inlet filter** – electroless nickel plated bronze
- **Regulators will deliver** – at least the stated upper range and in some cases may exceed the stated upper range

VTS 700

Extra Heavy Duty, High Flow

DESIGN/CONSTRUCTION

- 2.5" (63.5 mm) gauges – steel
- Diaphragms – 2" (50.8 mm) and 3.25" (82.6 mm) – stainless steel

DIMENSIONS

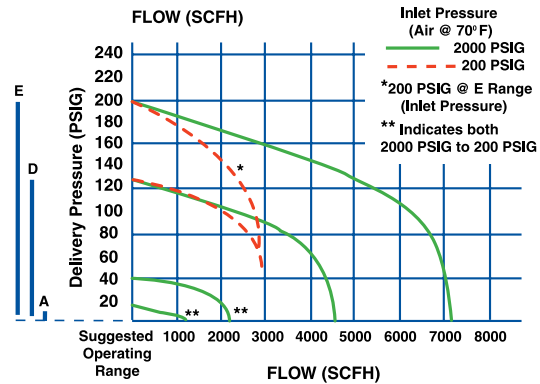
6.75" W x 7.5" H x 8.63" D
(171.5 mm x 190.5 mm x 219.1 mm)

WEIGHT

8 lb. 8 oz. (3.86 kg)

PERFORMANCE

Maximum inlet – 3000 PSIG



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Oxygen, Inert Gas	0780-0928	VTS 700D-580	5-125
	0780-0939	VTS 700E-540	10-200
	0780-0943	VTS 700E-580	10-200
Acetylene	0780-0984	VTS 710A-510	2-15

Outlet Connections: 7/8"-14(M)

REGULATORS

VTS 250

Medium Duty Gas Service

DESIGN/CONSTRUCTION

- 2" (50.8 mm) gauges – steel
- Diaphragm 1.3" (28.7 mm) and 1.75" (44.5 mm) – fabric reinforced neoprene

DIMENSIONS

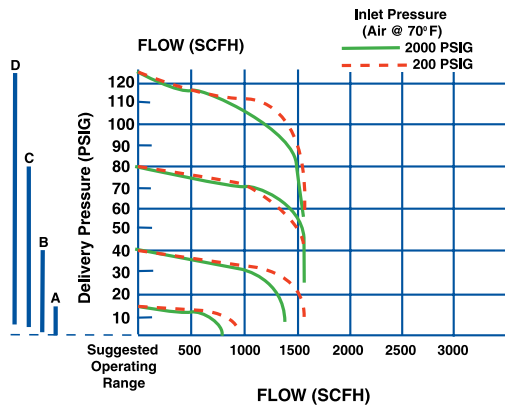
6.5" W x 5.63" H x 6.13" D
(165.1 mm x 143.0 mm x 155.7 mm)

WEIGHT

4 lb. 10 oz. (2.10 kg)

PERFORMANCE

Maximum inlet – 3000 PSIG



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Air, Oxygen, Inert Gas	0781-3503	VTS 250A-540	2-15
	0781-3507	VTS 250A-580*	2-15
	0781-3504	VTS 250B-540	2-40
	0781-3508	VTS 250B-580	2-40
	0781-3510	VTS 250C-346	4-80
	0781-3505	VTS 250C-540	4-80
	0781-3509	VTS 250C-580*	4-80
	0781-3516	VTS 250C-590	4-80
	0781-3512	VTS 250D-346	5-125
	0781-3506	VTS 250D-540	5-125
0781-3513	VTS 250D-580*	5-125	
Hydrogen	0781-3558	VTS 252A-350	2-15
	0781-3559	VTS 252B-350	2-40
	0781-3563	VTS 252C-350	4-80
	0781-3564	VTS 252D-350	5-125
CO ₂	0781-3569	VTS 253A-320	2-15
	0781-3573	VTS 253B-320*	2-40
	0781-3574	VTS 253C-320*	4-80
	0781-3575	VTS 253D-320	5-125
Acetylene	0781-3583	VTS 260A-300	2-15
	0781-3584	VTS 260A-510	2-15
L.P. Gas	0781-3594	VTS 261B-510	2-40
	0781-3525	VTS 261BL-555	2-40

Outlet Connections: Cylinder Type 9/16"-18(M), *5/8"-18 RH(F)

INNOVATIVE NEW EDGE™ SERIES REGULATOR OFFERS SAFETY AND ADVANCED DESIGN

ETS4 Series

High Capacity, Two-Stage Design

Compact two-stage performance
in a single-stage footprint

DESIGN/CONSTRUCTION

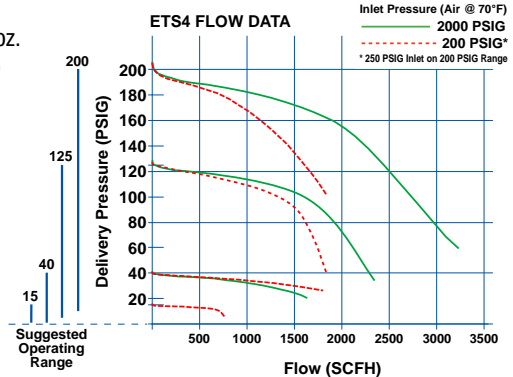
- Forged brass body
- Zinc-aluminum housing caps
- High impact ABS gauge guard
- 1.5" UL listed/recognized Gauges – brass
- Stem type seat mechanism: urethane seat material – air, oxygen, inerts, CO₂, N₂O, other high pressure gases; neoprene seat material – low pressure fuel gases
- 2.7" fabric reinforced neoprene diaphragm in 2nd stage, 0.75" diameter brass piston in 1st stage
- External self reseating relief valve. Not designed to protect downstream equipment (no relief valve is needed on low pressure fuel gas models)
- Sintered inlet filter – nickel plated bronze
- SLAM™ impact absorbing safety knob
- Meets or exceeds CGA E-4, UL 252 and ASTM G-175 Promoted Ignition Test

DIMENSIONS

- 6.85" W x 4.4" H x 4.72" D (174.0 mm x 111.8 mm x 119.9 mm)

WEIGHT

4 lb. 12 oz.
(2.15 kg)



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Air, Oxygen, Inert Gas	0781-5231	ETS4-125-346	5-125
	0781-5232	ETS4-200-346	10-200
	0781-5217	ETS4-40-540	2-40
	0781-5218	ETS4-125-540	5-125
	0781-5219	ETS4-200-540	10-200
	0781-5221	ETS4-40-580	20-40
	0781-5222	ETS4-125-580	5-125
	0781-5223	ETS4-200-580	10-200
Industrial Air	0781-5224	ETS4-125-590	5-125
British Oxygen/Fuel	0785-2120	ETS4-125-992	5-125
	0785-2121	ETS4-200-992	10-200
	0785-2122	ETS4-15-993	2-15
Hydrogen/Methane	0781-5225	ETS4-40-350	2-40
	0781-5226	ETS4-125-350	5-125
	0781-5227	ETS4-200-350	10-200
Carbon Dioxide	0781-5228	ETS4-125-320	5-125
Acetylene	0781-5229	ETS4-15-300	2-15
	0781-5230	ETS4-15-510	2-15

Regulators

HIGH PRESSURE/MANIFOLD

SR 4

High Pressure

Heavy duty, high pressure piston regulator. Ideally suited for pressure vessel and dead-end testing. Delivery pressures up to 4500 PSIG on some models.

DESIGN/CONSTRUCTION

- Machined brass body & housing cap
- 2.5" (63.5 mm) gauges – brass
- Cartridge type seat assembly with PCTFE seat
- Piston type actuation – brass
- Delrin cap bushing for smooth adjustments
- External adjustable relief valves on F and G range models
- Hydrogen models have ventable relief valves (J Series does not)
- Sintered inlet filter – bronze

DIMENSIONS

6" W x 6.5" H x 6.25" D (152.4 mm x 165.1 mm x 158.8 mm)

WEIGHT

4 lb. (1.81 kg)

PERFORMANCE

Maximum Inlet –

7500 PSIG with CGA 677

6000 PSIG without inlet fitting

5500 PSIG with CGA 701, 680, 347

4000 PSIG with CGA 577

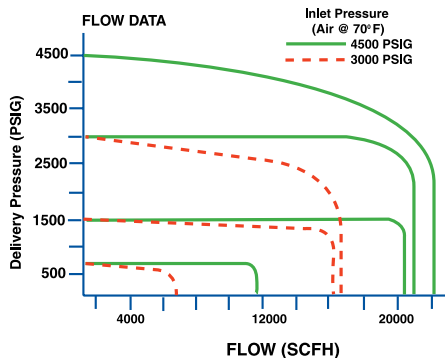
3000 PSIG with CGA 540, 580, 346, 350

PANEL MOUNTING DETAILS

All SR 4 Series regulator models may be panel mounted.

(1.75" (44.5 mm) hole required in panel for mounting)

For a flush panel mount installation order one panel mount nut 1409-0093. For an adjustable panel mount installation order two panel mount nuts 1409-0093.



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Oxygen	0781-1405	SR 4F-540	50-750
	0781-1425	SR 4G-540	100-1500
	0781-1445	SR 4J-540	200-3000
Inert Gas	0781-1408	SR 4F-580	50-750
	0781-1410	SR 4F-680	50-750
	0781-1428	SR 4G-580	100-1500
	0781-1430	SR 4G-680	100-1500
	0781-1448	SR 4J-580	200-3000
	0781-1450	SR 4J-680	200-3000
	0781-1453	SR 4J-677	200-3000
	0781-1470	SR 4K-680	300-4500
Air	0781-1473	SR 4K-677	300-4500
	0781-1403	SR 4F-347	50-750
	0781-1422	SR 4G-346	100-1500
	0781-1442	SR 4J-346	200-3000
Methane, Hydrogen	0781-1463	SR 4K-347	300-4500
	0781-1404	SR 4F-350	50-750
	0781-1424	SR 4G-350	100-1500
CO ₂	0781-1444	SR 4J-350	200-3000
	0781-1401	SR 4F-320	50-750
Panel Mount 1/4" NPT Inlet	0781-1415	*SR 4PF-250	50-750
	0781-1420	*SR 4PG-250	100-1500
	0781-1455	*SR 4PJ-250	200-3000
	0781-1475	*SR 4PK-250	300-4500
Manifold High Pressure	0781-1454	SR 4TJ-996	200-3000

Inlet: *1/4" NPT(F)

Outlet Fitting: 1/4" Swagelok type stainless steel.

+5/8"-20 UNF(M) inlet 1/8" NPT(F) outlet

REGULATORS

SR 600 Heavy Duty

Single stage regulator designed for pressure testing and ideal where 350 or 550 PSIG (maximum) delivery pressures are needed, such as dead-end testing

DESIGN/CONSTRUCTION

- Forged brass body & housing cap
- 2.5" (63.5 mm) gauges – brass (6000 lb. high pressure, 600 lb. and 1000 lb. low pressure)
- Cartridge type seat assembly with PCTFE seat
- Diaphragm –stainless steel
- External self-reseating relief valve
- CGA 540, 580, 346 have a maximum inlet pressure of 3000 PSIG

DIMENSIONS

7.5" W x 6" H x 5" D
(190.5 mm x 152.4 mm x 127.0 mm)

WEIGHT

5 lb. 7 oz. (2.47 kg)

PERFORMANCE

Maximum inlet – 5500 PSIG
Outlet pressure ranges – 350 and 550 PSIG
Inlet port – 5/8"-20 UNF(M)
Outlet fitting – 1/4" Swagelok-brass
Temperature operating range – 0-140°F

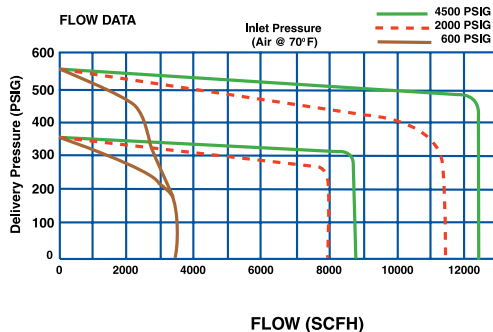


Manifold Regulators Heavy Duty

- Wide range of flow capabilities
- Wide range of pressure delivery
- Single and two stage models available



VTS 700ME-996



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Inert Gas	0781-1601	SR 600-350-580	5-350
High Pressure Inert Gas	0781-1604	SR 600-350-680	5-350
High Pressure Air	0781-1605	SR 600-350-347	5-350
Oxygen	0781-1610	SR 600-550-540	5-550
Inert Gas	0781-1611	SR 600-550-580	5-550

Gas Service	Part No.	Model No.	Delivery Range (PSIG)
HIGH PRESSURE DELIVERY, PISTON			
Air, Oxygen, Inert Gas, Hydrogen	0781-1457	SR 4MF-996	50-750
	0781-1437	SR 4MG-996	100-1500
	0781-1458	SR 4MJ-996	200-3000
	0781-1436	SR 4MF-997	50-750
	0781-1438	SR 4MG-997	100-1500
	0781-1456	SR 4MJ-997	200-3000
SINGLE STAGE			
Air, Oxygen, Inert Gas	0781-0611	SR 450MD-996	5-125
	0781-0612	SR 450ME-996	10-200
Methane, Hydrogen	0781-0613	SR 452MD-997	5-125
CO ₂	0781-0615	SR 453MD-996	5-125
Acetylene	0781-0617	SR 460MA-997	2-15
L.P. Gas	0781-0618	SR 461MB-997	2-40
	0781-0619	SR 461MD-997	5-125
EXTRA HIGH FLOW, SINGLE STAGE			
Air, Oxygen, Inert Gas	0780-0797	SR 700MD-996	5-125
	0780-0798	SR 700ME-996	10-200
	0780-0809	SR 700MD-500	5-125
Methane, Hydrogen	0780-0803	SR 702ME-997	10-200
CO ₂	0780-0804	SR 703MD-996	5-125
	0780-0805	SR 703ME-996	10-200
Acetylene	0780-0806	SR 710MA-997	2-15
L.P. Gas	0780-0807	SR 711MB-997	2-40
TWO STAGE			
Methane, Hydrogen	0781-3961	VTS 452MD-997	5-125
	0781-3962	VTS 452ME-997	10-200
TWO STAGE, HIGH FLOW			
Air, Oxygen, Inert Gas	0780-0997	VTS 700MD-996	5-125
	0780-0998	VTS 700ME-996	10-200
CO ₂	0780-1004	VTS 703MD-996	5-125
	0780-1005	VTS 703ME-996	10-200
Acetylene	0780-1006	VTS 710MA-997	2-15
L.P. Gas	0780-1007	VTS 711MB-997	2-40

Inlet Connection: 1"-11.5 NPS(M)
Outlet Connections: 1"-11.5 NPS(F)

Regulators

LIQUID CYLINDER, LINE AND STATION

EDGE™ Series

Innovative New

EDGE™ Series Regulators

Offer Safety and Advanced Design



Victor® has been the leader in gas equipment for close to a century, and its tradition of unparalleled safety remains a cornerstone of the brand today. With the Victor Professional EDGE Series Regulators, Victor continues to offer the safest, most reliable and highest quality gas control technology, giving you more value for your purchase. In addition, standardized designs and components throughout the EDGE family greatly simplify regulator service and repair. All EDGE Series Regulators are easy to use, durable and compact, designed for performance and unmatched for safety.

- 4 port 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
- ETL listed to UL 252

EDGE ELC4 – Liquid Regulator Series

The ELC4 Series brings the innovative features of the EDGE regulator to liquid cylinder use. This regulator is optimally designed to work with the vaporized gas from a liquid vessel.

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.

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.

ELC4 Liquid Cylinder

DESIGN/CONSTRUCTION

- Stainless diaphragm
- Rear entry design

DIMENSIONS

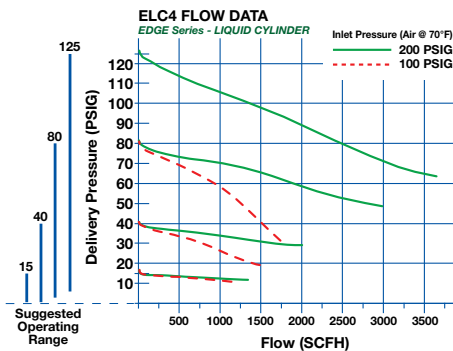
3.8" W X 7.1" H X 8.2" L
(96.5 mm X 180.3 mm X 208.3 mm)

WEIGHT

4 lbs. 5 oz. (1.95 kg)

PERFORMANCE

Maximum inlet – 3000 PSIG



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Oxygen	0781-5199	ELC4-125-540R	5-125
Inert (Nitrogen, Argon, Helium)	0781-5200	ELC4-125-580R	5-125
	0781-5202	ELC4-325-580R	5-325
Carbon Dioxide	0781-5201	ELC4-125-320R	5-125

GREEN	BLACK	GRAY
Oxygen	Inert Gas	Carbon Dioxide

REGULATORS

ESL4

Line

DESIGN/CONSTRUCTION

- Versatile – supports a variety of inlet pressures (up to 3000 PSIG)

DIMENSIONS

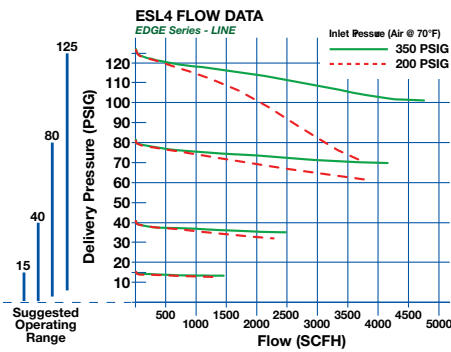
3.8" W X 7.1" H X 8.2" L
(96.5 mm X 180.3 mm X 208.3 mm)

WEIGHT

4 lbs. 5 oz. (1.95 kg)

PERFORMANCE

Maximum inlet – 3000 PSIG



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Air, Inert Gas, Carbon Dioxide, Nitrous Oxide	0781-5190	ESL4-125-250	5-125
Oxygen	0781-5214	ESL4-125-250X	5-125
Hydrogen, Methane, Natural Gas, L.P. Gas	0781-5210	ESL4-80-250F	4-80
	0781-5211	ESL4-125-250F	5-125
Acetylene	0781-5208	ESL4-15-250A	5-125

RED	GREEN	BLACK
Acetylene	Oxygen	Inert Gas
Hydrogen		
Methane		
LPG		

EST4

Station

DESIGN/CONSTRUCTION

- Side entry and rear entry inlet versions available

DIMENSIONS

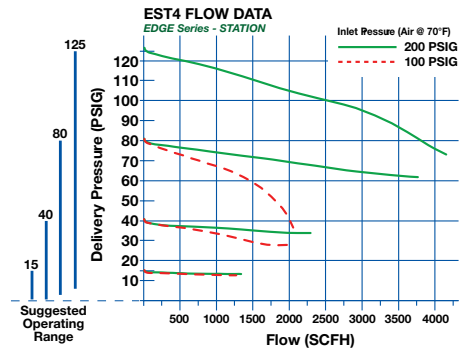
3.8" W X 7.1" H X 8.2" L
(96.5 mm X 180.3 mm X 208.3 mm)

WEIGHT

4 lbs. 5 oz. (1.95 kg)

PERFORMANCE

Maximum inlet – 200 PSIG



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Oxygen	0781-5191	EST4-40-024	2-40
	0781-5204	EST4-40-024R	2-40
	0781-5192	EST4-80-024	4-80
	0781-5205	EST4-80-024R	4-80
	0781-5193	EST4-125-024	5-125
	0781-5206	EST4-125-024R	5-125
Inert (Nitrogen, Argon, Helium)	0781-5189	EST4-125-034	5-125
	0781-5207	EST4-125-034R	5-125
Acetylene	0781-5194	EST4-15-025	2-15
	0781-5209	EST4-15-025R	2-15
Hydrogen, Methane, Natural Gas, L.P. Gas	0781-5195	EST4-80-025	4-80
	0781-5212	EST4-80-025R	4-80
	0781-5196	EST4-125-025	5-125
	0781-5213	EST4-125-025R	5-125

RED	GREEN	BLACK
Acetylene	Oxygen	Inert Gas
Hydrogen		
Methane		
LPG		

Regulators

PIPELINE DEVICES

Pipeline Devices

L 700 High Flow Line

DL 700 Dome Load Line

BSL 7000 Bulk System Line

Victor offers high performance products for non-cylinder applications such as automated cutting, bulk gas system delivery and other pipeline applications where high flow and maintaining consistent delivery pressure is critical.

WARNING: Not for use on cylinders



L 700

High Flow Line

DESIGN/CONSTRUCTION

- Forged brass body & housing cap
- 2.5" (63.5 mm) gauge – brass
- Stem type seat mechanism
- 3.25" (82.6 mm) diaphragm – fabric-reinforced neoprene
- Delrin cap bushing for smooth adjustments
- Designed for gas distribution system (pipeline)
- Available in either 1/2" NPT(F) or 3/4" NPT(F) inlet



DIMENSIONS

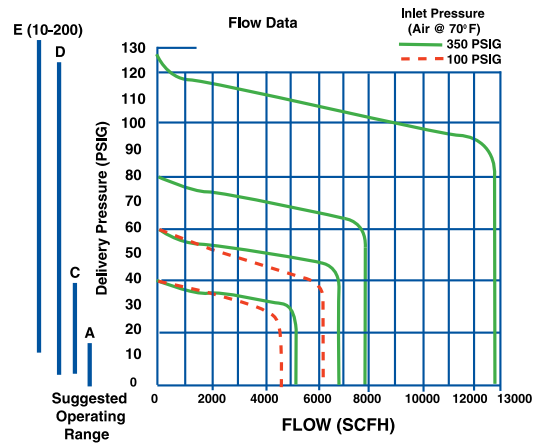
4" W x 7" H x 6" D
(101.6 mm x 177.8 mm x 152.4 mm)

WEIGHT

4 lb. 15 oz. (2.4 kg)

PERFORMANCE

WARNING: Maximum inlet pressure 350 PSIG. Not for use on cylinders.



Gas Service	Part No.	Model No.	Delivery Range (PSIG)	Inlet & Outlet Ports
Air, Oxygen, Inert Gas	0780-1229	L 700C-500	4-80	1/2" NPT(F)
	0780-1220	L 700C-750	4-80	3/4" NPT(F)
	0780-1207	L 700D-500	5-125	1/2" NPT(F)
	0780-1236	L 700D-500 PMT	5-125	1/2" NPT(F)
	0780-1209	L 700D-750	5-125	3/4" NPT(F)
	0780-1221	L 700E-500	10-200	1/2" NPT(F)
	0780-1222	L 700E-750	10-200	3/4" NPT(F)
Acetylene	0780-1233	L 710A-500	2-15	1/2" NPT(F)
	0780-1201	L 710A-750	2-15	3/4" NPT(F)
Hydrogen, L.P. Gas	0780-1199	L 711D-500	5-125	1/2" NPT(F)

PMT Panel Mount

REGULATORS

DL 700 Dome Load Line

DESIGN/CONSTRUCTION

- Forged brass body & housing cap
- Stem type seat mechanism – fabric reinforced neoprene
- 1/2" NPT(F) inlet & outlet ports
- Externally dome loaded
- Remotely controlled pressure adjustment
- Designed for cutting machines or applications that demand very consistent delivery pressures
- The DL 700 line regulator is externally dome loaded for remote control of gases.
- The delivery pressure on the DL 700 is controlled by the pressure supplied from a remote pilot regulator



DIMENSIONS

3.75" W x 4" H x 5.63" D
(95.3 mm x 101.6 mm x 143.0 mm)

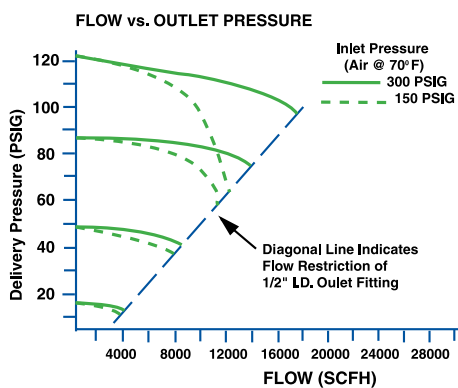
WEIGHT

4 lb. 8 oz. (2.04 kg)

PERFORMANCE

Maximum inlet – 500 PSIG
Maximum outlet – 125 PSIG
Temperature operating range – 0-140° F
Dome load inlet size – 1/4" NPT(F)
Maximum dome load pressure – 125 PSIG

WARNING: Not for use on cylinders



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
A wide range of gases	0780-1188	DL 700	5-125

Connections: 1/2" NPT(F) Inlet & Outlet Ports

BSL 700 Bulk System Line

DESIGN/CONSTRUCTION

- Forged brass body & housing cap
- 2.5" (63.5 mm) gauge – brass
- Stem type seat mechanism
- 3.25" (82.6 mm) diaphragm – stainless steel
- Bleed valve in low pressure port
- Nozzle – brass
- Seat return spring – stainless steel
- Seals – silicon and nylon
- Designed for downstream vapor applications
- Ideal for bulk system installations
- Durable and will withstand most environmental situations
- Inlet pressure up to 350 PSIG



DIMENSIONS

3.25" W x 8.5" H x 7.5" D
(82.6 mm x 215.9 mm x 190.5 mm)

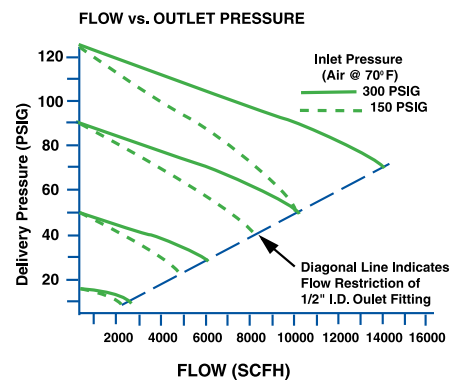
WEIGHT

5 lb. 8 oz. (2.49 kg)

PERFORMANCE

Maximum inlet – 350 PSIG
Outlet range – 10-200 PSIG
Temperature operating range 0-140° F

WARNING: Maximum inlet pressure 350 PSIG. Not for use on cylinders



• Tested with an Outlet Fitting of 1/2" I.D. & Outlet Pressure taken at Regulator Outlet Fitting.

Gas Service	Part No.	Model No.	Delivery Range (PSIG)	Outlet Gauge (PSIG)	Inlet & Outlet Ports
Oxygen, Inert Gas	0780-1200	BSL 700	10-200	0-400	1/2" NPT(F)

Regulators

FLOW GAUGE / FLOW METER

Flow Products

What Does Victor Have to Offer?

Victor® has a full line of flow products for virtually any application. Whether it is welding, industrial or laboratory use, Victor has a flow meter, flow gauge or surge limiting regulator for your needs.

REGULATORS



Victor offers a range of products for the delivery of shielding gas in the arc welding process or any application where gas flow rates, versus delivery pressure, are the primary consideration. These products are available for pure or mixed gases and for working with either high pressure cylinders or low pressure "piped shop" environments.

Offering includes:

- * Regulators with flow meter
- * Flow Meters
- * Flow Gauge Regulators
- * Single or Two Stage designs
- * Surge limiting regulator

ESS3-FG

Flow Gauge



DESIGN/CONSTRUCTION

- Forged brass body
- Zinc-Aluminum housing cap
- High impact ABS gauge guard
- 1.5" (40 mm) gauges - brass
- Stem type seat mechanism
- 2" (50.8 mm) diaphragm - fabric reinforced neoprene
- External self reseating relief valve. Not designed to protect downstream equipment
- Sintered inlet filter – nickel plated bronze
- SLAM™ impact absorbing safety knob
- Meets or exceeds CGA E-4, UL 252 and ASTM G-175 Promoted Ignition Test

DIMENSIONS

6.6" W x 4.4" H x 3.6" D
(167.6 mm x 111.8 mm x 91.4 mm)

WEIGHT

3.5 lb. (1.59 kg)

PERFORMANCE

Maximum inlet – 3000 PSIG
Flow Range – 0-40 CFH (0 - 19 L/min.)



Gas Service	Part No.	Model No.	Flow Range (SCFH)
Argon	0781-5120	ESS3-FG-580	0-40
CO ₂	0781-5119	ESS3-FG-320	0-40

Outlet Connections: 5/8"-18 RH(F), CGA 032

GRAY	BLACK
Carbon Dioxide	Argon

SR 310, SR 311, & SR 312

Flow Meter

DESIGN/CONSTRUCTION

- Designed for CO₂ application (non-siphoned tube cylinders)
- High flow CO₂ applications (SR 310 100 PSIG) (SR 311/312 100 SCFH) with adequate supply or source
- Designed for core wire applications
- Machined aluminum body & housing cap
- 2" (50.8 mm) gauge
- Stem type seat mechanism
- 1.75" (44.5 mm) diaphragm - fabric reinforced neoprene
- Self reseating relief valve (not designed to protect downstream equipment)
- Sintered inlet filter - bronze

DIMENSIONS

8.38" W x 7.25" H x 2.5" D
(212.9 mm x 184.2 mm x 63.5 mm)

WEIGHT

2 lb. 15 oz. (1.33 kg)

PERFORMANCE

Maximum inlet – 1500 PSIG
Delivery range – 100 SCFH

A regulator equipped with a flow gauge is not accurate when a back pressure in excess of 2 PSIG exists at the outlet. Back pressure is caused by a restriction in the equipment downstream of the flow gauge. Metering valves, kinked hoses or even very long hoses are restrictions that can cause back pressure. In applications where back pressure in excess of 2 PSIG can be expected, a regulator equipped with a flow meter should be used.

WARNING: High gas withdrawal rates may cause regulator freeze up and will require cylinder manifolding. Consult your gas supplier. See below for Gas Heater.



SR 310



SR 311



SR 312

Gas Service	Part No.	Model No.	Flow Range (PSIG)	CGA Inlet Connection
CO ₂	0781-0355	SR 310 Adjustable Pressure Gauge	10-200 PSIG	320
	0781-0353	SR 311 (Preset @ 80 PSIG) Flow Meter	25-100 SCFH	320
	0781-0354	SR 312 Flow Gauge	0-100 SCFH	320

Outlet Connections: 5/8"-18 RH(F)
Adapter: 5/8"-18(M) x 1/4" NPT(M)

Gas Heater

Manufactured for either Carbon Dioxide (CO₂) or Nitrous Oxide (N₂O). These heaters operate on 110 Volts at 120 Watts (1 Amp). They are thermostatically controlled at 160°F (+5°) and rated for flows up to 160 SCFH. Rated for standard cylinder pressures up to 3000 PSI.

Part No.	Description	Weight
5370-7141	Electric CO ₂ Heater	2 lb. 0.9kg
5370-7142	Electric N ₂ O Heater	2 lb. 0.9kg



Regulators

FLOW GAUGE / FLOW METER

SLR 100

Surge Limiting Regulator

For use with Shielding Gas

DESIGN/CONSTRUCTION

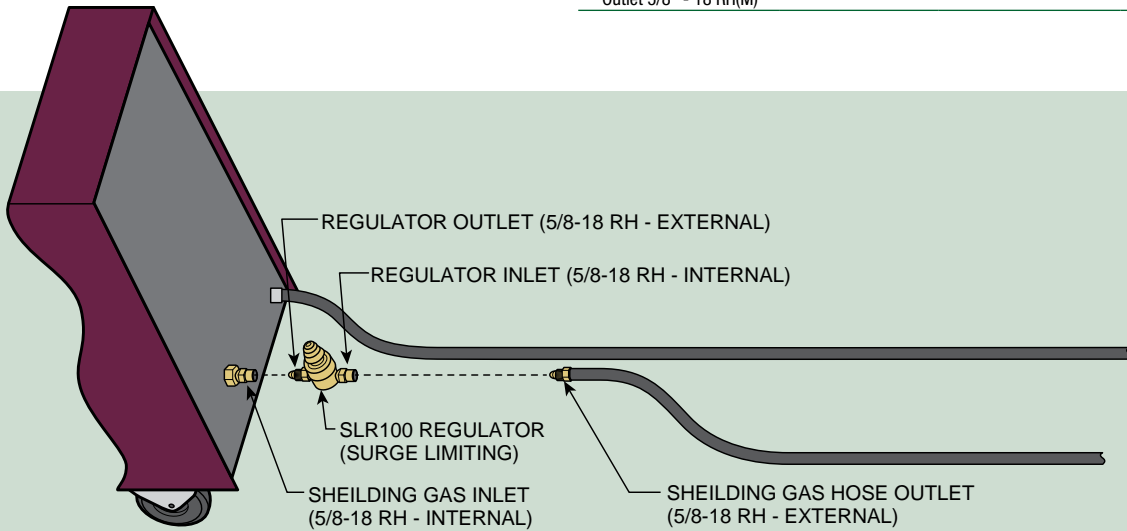
- Reduces gas surge at the application of the torch/gun
- Provides a more consistent flow rate of shielding gas to welding machines
- All brass construction
- Neoprene diaphragm
- 50 micron sintered bronze internal filter

PERFORMANCE

- Recommended inlet pressure: 100± 20 PSIG (200 max)
- Flow: 50 SCFH (preset)
- Connections: CGA 032 RH

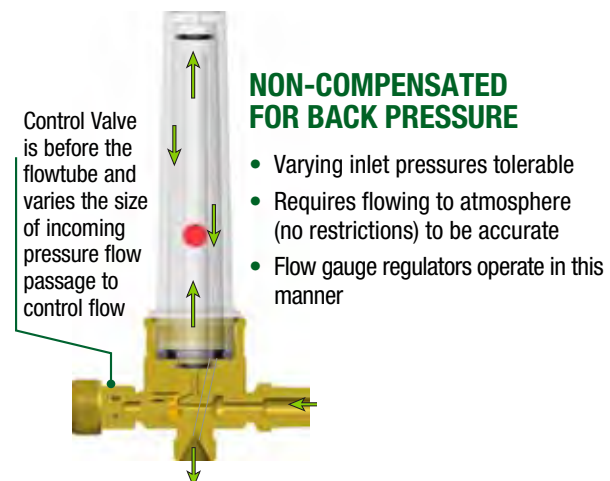
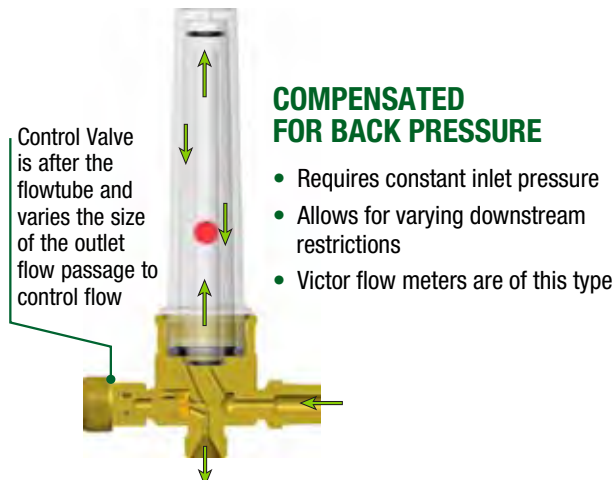


Gas Service	Model No.	CGA Inlet Connection	Part No.
Inert	SLR 100	032	0781-1197
Outlet Connections: Inlet 5/8" - 18 RH(F) Outlet 5/8" - 18 RH(M)			



When a flow meter is back pressure compensated, it is not affected by any downstream restrictions that result in a pressure buildup. In a device that is not compensated, the back pressure will result in inaccurate readings on the flow tube or gauge.

All Victor FM Series flow meters are back pressure compensated to ensure accurate reading at all times, even if line restrictions are present.



REGULATORS

Flow Meter Heavy Duty

DESIGN/CONSTRUCTION

- Gas flow measurement in SCFH
- MIG / TIG applications
- Flowtube and outer tube are made of impact resistant lexan for severe applications
- Pressure compensated for low surge requirement
- Cover tube contains overpressure protection

All Victor flow meters are back pressure compensated to ensure accurate readings at all times, even if line restrictions are present. All flow meters are calibrated to operate at **25 PSIG inlet pressure** to minimize surge, except the FM 200 which is calibrated to operate at **80 PSIG**.

WARNING: Not designed for cylinder use.
Do not exceed calibrated inlet pressure.



Part No.	Model No.	Flow Range (SCFH)	Inlet Fitting	Outlet Fitting	Replacement Flow Tube	Inlet Pressure (PSIG)
UNITS WITH SINGLE GAS CALIBRATION						
1000-0264	FM 200	30-100 CO ₂	1/4" NPT(M)	5/8"-18 RH(F)	1015-0066	80
UNITS WITH 2 GAS CALIBRATIONS						
1000-0268	FM 150	10-60 AIR 10-60 NITROGEN	1/4" NPT(M)	5/8"-18 RH(F)	1015-0060	25
1000-0255	FM 135	4-18 ARGON 10-50 HELIUM	9/16"-18 RH(F)	5/8"-18 RH(F)	1015-0063	25
1000-0256	FM 145	4-18 ARGON 10-50 HELIUM	5/8"-18 RH(M)	5/8"-18 RH(F)	1015-0063	25
1000-0257	FM 155	4-18 ARGON 10-50 HELIUM	1/4" NPT(M)	5/8"-18 RH(F)	1015-0063	25
1000-0261	FM 137	15-65 ARGON 40-200 HELIUM	9/16"-18 RH(F)	5/8"-18 RH(F)	1015-0064	25
1000-0262	FM 147	15-70 ARGON 40-200 HELIUM	5/8"-18 RH(M)	5/8"-18 RH(F)	1015-0064	25
1000-0263	FM 157	15-65 ARGON 40-200 HELIUM	1/4" NPT(M)	5/8"-18 RH(F)	1015-0064	25
UNITS WITH 3 GAS CALIBRATIONS						
1000-0258	FM 370	5-40 CO ₂ 5-50 ARGON 20-150 HELIUM	9/16"-18 RH(F)	5/8"-18 RH(F)	1015-0057	25
1000-0259	FM 371	5-40 CO ₂ 5-50 ARGON 20-150 HELIUM	5/8"-18 RH(M)	5/8"-18 RH(F)	1015-0057	25
1000-0182	FM 372	5-40 CO ₂ 5-50 ARGON 20-150 HELIUM	1/4" NPT(M)	5/8"-18 RH(F)	1015-0057	25

**TO ENSURE PROPER GAS FLOW AND TO PREVENT TAMPERING TO YOUR FLOWMETER
USE A VICTOR LOCKING VALVE (PART NO. 0662-0079)**

Regulators

FLOW METER CYLINDER

HRF 2400

Medium Duty

DESIGN/CONSTRUCTION

- Regulator / flow meter combination in one compact unit
- MIG / TIG applications
- Ideal for all applications where dependability is needed
- Calibrated tube at 25 PSIG (not on HRF 2480)
- Machined brass body & housing cap
- Back pressure compensated
- Fabric reinforced neoprene diaphragm
- Internal self reseating relief valve – not designed to protect downstream equipment
- Sintered inlet filter – bronze
- Cover tube contains overpressure protection

DIMENSIONS

5.63" W x 8.25" H x 3" D
(143.0 mm x 209.6 mm x 76.2 mm)

WEIGHT

2 lb. 8 oz. (1.13 kg)

PERFORMANCE

Maximum inlet – 3000 PSIG

Outlet pressure – preset

HRF 2425 – 25 PSIG

HRF 2480 – 80 PSIG

WARNING: High gas withdrawal rates on carbon dioxide may require cylinder manifolding. Consult your gas supplier



Gas Service	Part No.	Model No.	Flow Range (SCFH)	Specify CGA Inlet Connection	Replacement Flow Tube
Argon, Argon/CO ₂ Mix, Helium	0781-2731	HRF 2425 Preset @ 25 PSIG	10-50 (Argon) 20-150 (Helium)	580	1015-0057
CO ₂ , CO ₂ Mix	0781-2727	HRF 2480	10-38 (CO ₂)	320	1015-0058
	0781-2728	Preset @ 80 PSIG	7.5-37.5 (Argon)	320, 580	

Outlet Connections: 5/8"-18 RH(F), CGA 032

DFM 150

Medium Duty

DESIGN/CONSTRUCTION

- Designed to monitor two separate processes or gas flows
- Ideal for applications where shielding gas and back purge requirements are needed
- Designed to offer convenience for the maintenance and fabrication industries
- Brass body
- Teflon seat mechanism
- Sintered inlet filter – bronze
- Music wire – spring
- Piston – brass
- Cover tube – lexan

DIMENSIONS

5.5" W x 6.5" H x 5" D
(139.7 mm x 165.1 mm x 127.0 mm)

WEIGHT

2 lb. 9 oz. (1.16 kg)

PERFORMANCE

Maximum inlet – 3000 PSIG DFM 150

75 PSIG DFM 150S

Outlet pressure – 25 PSIG (preset)

Flow Capacity (See below)

Flow meter shows actual flow



Gas Service	Part No.	Model No.	Flow Range (SCFH)	CGA Inlet Connection	Max Inlet (PSIG)	HP Gauge	Replacement Flow Tube
Argon, Helium	0781-1153	DFM 150-580	5-50 (Argon) 20-150 (Helium)	580	3000	0-4000	1015-0057
CO ₂	0781-1206	DFM 150S	5-40 (CO ₂)	1/4" NPT (F)	75	0-100	1015-0057

Outlet Connection: 5/8"-18 RH(F), CGA 032
Preset Pressure: 25 PSIG

HSR & HVTS

Medium Duty

DESIGN/CONSTRUCTION

- Single or two stage design
- Compact in size
- Accurate regulator for gas flow
- MIG / TIG applications
- Two stage version provides extremely accurate flow rates as cylinder pressure declines
- Low surge rates – 25 PSI preset

HSR MODELS (Single Stage)

DIMENSIONS

7" W x 6.25" H x 4.25" D (177.8 mm x 158.8 mm x 108.0 mm)

WEIGHT

3 lb. 3 oz. (1.45 kg)

HVTS MODELS (Two Stage)

DIMENSIONS

7" W x 5.5" H x 6.5" D (177.8 mm x 139.7 mm x 165.1 mm)

WEIGHT

4 lb. 10 oz. (2.10 kg)

DESIGN/CONSTRUCTION

- Forged brass body and housing cap
- 2" (50.8 mm) high pressure gauge
- Stem type seat mechanism
- Fabric reinforced neoprene diaphragm
- External self reseating relief valve (not designed to protect downstream equipment)
- Sintered inlet filter – bronze

PERFORMANCE

Maximum inlet – 3000 PSIG

Outlet pressure – 25 PSIG (preset), 80 PSIG on CO₂

Flow capacity (See below)

WARNING: High gas withdrawal rates on carbon dioxide may require cylinder manifolding. Consult your gas supplier.



HSR Series



HVTS Series

Gas Service	Part No.	Model No.	Flow Range (SCFH)	Specify CGA Inlet Connection	Replacement Flow Tube	Gas Calibrations
Nitrogen/Air	0781-3819	*HSR 2530	10-60	580	1015-0070	2
Argon/Helium	0781-3867	*HSR 2535	4-18 / 10-50	580	-	2
	0781-3775	*HVTS 2535	4-18 / 10-50	580	-	2
	0781-3871	*HSR 2537	15-65 / 40-200	580	1015-0064	2
	0781-3772	*HVTS 2537	15-65 / 40-200	580	1015-0064	2
Argon, Argon/(CO ₂) Mix, Helium	0781-3873	*HSR 2570	5-50	580	1015-0057	3
	0781-3869	*HSR 2570	5-40	580	1015-0057	3
	0781-3774	*HVTS 2570	20-150	320	1015-0057	3
Hydrogen, Low Pressure	0781-3825	HSR 2533	5-40	350	1015-0070	2
Argon, Argon/(CO ₂) Mix, Helium (Max Inlet – 200 PSIG)	0781-1245	S2570	5-50, 5-40, 20-140	034	1015-0057	3
Inert	0781-3880	HSR 1470	50-140-40	680	1015-0057	AR-HE-CO ₂

*Outlet Connections: 5/8"-18 RH(F)

Regulators

FLOW METER CYLINDER, FLOW GAUGE

Meco High Pressure

DESIGN/CONSTRUCTION

- Single-stage design
- Heavy-duty applications such as oil/gas industry
- Stainless steel diaphragm
- Positive pressure yoke type regulator
- Multi-seat 4 way seat block

WEIGHT

4 lb. 9 oz. (2.2 kg)

PERFORMANCE

Maximum inlet pressure – 5500 PSIG

Available as a preset model or with adjusting T-screw



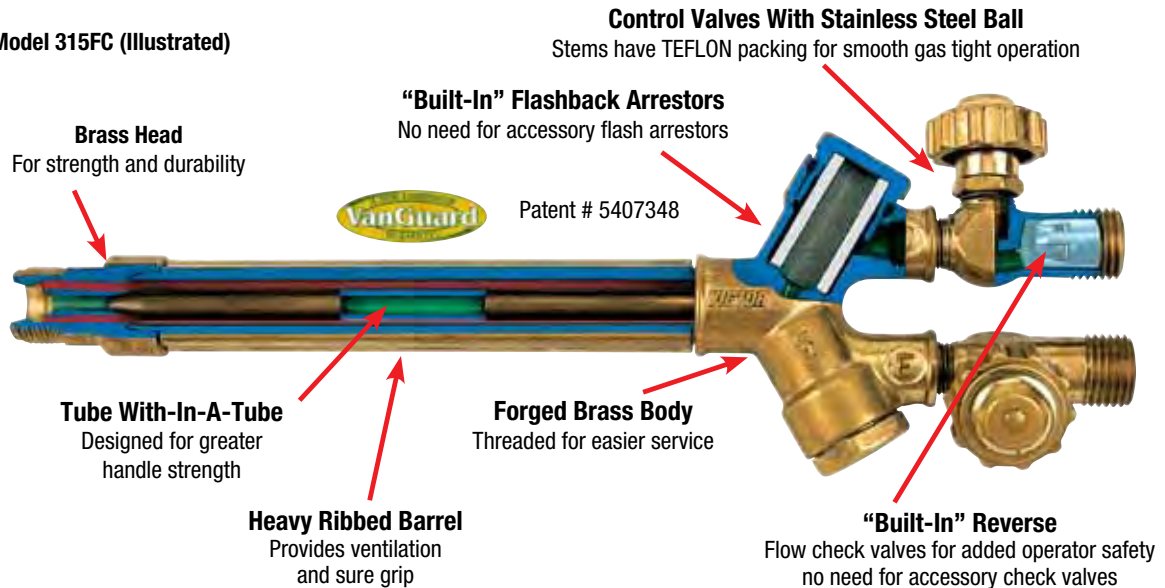
Part Number	Description	Adjusting Mechanism	Pressure	Inlet
5641-8461	P Regulator 125 PSI	Cap nut	125	1/4 -18 NPT
5641-8464	P Regulator 150 PSI	T screw	150	1/4 -18 NPT
5641-8465	P Regulator 150 PSI	Cap nut	150	1/4 -18 NPT
5641-8470	P Regulator 225 PSI	T screw	225	1/4 -18 NPT
5641-8468	P Regulator 225 PSI	T screw	225	1/4 -18 NPT

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Handles and Cutting Attachments

DESIGN AND CONSTRUCTION FEATURES

Model 315FC (Illustrated)



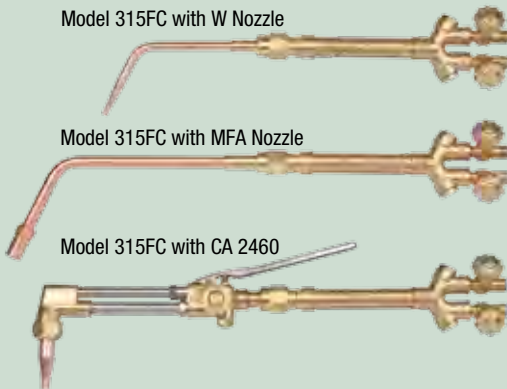
Rugged, Efficient Design - Threaded Assembly for Ease of Service

Victor torch handles give you twice the value

Each torch handle is designed and built to withstand rugged job site conditions. In case of damage, Victor's threaded assembly design lets you replace parts quickly and economically.

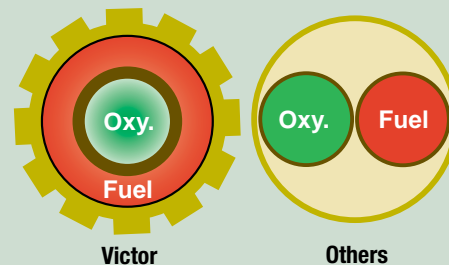
Performance proven Tube-Within-A-Tube design

Victor torch handles include one oxygen tube within a massive, heavy ribbed handle which also serves as the gas tube. The result is greater strength and durability plus a reduction in overall size and weight for ease of operation.



Victor Tube-Within-A-Tube Design

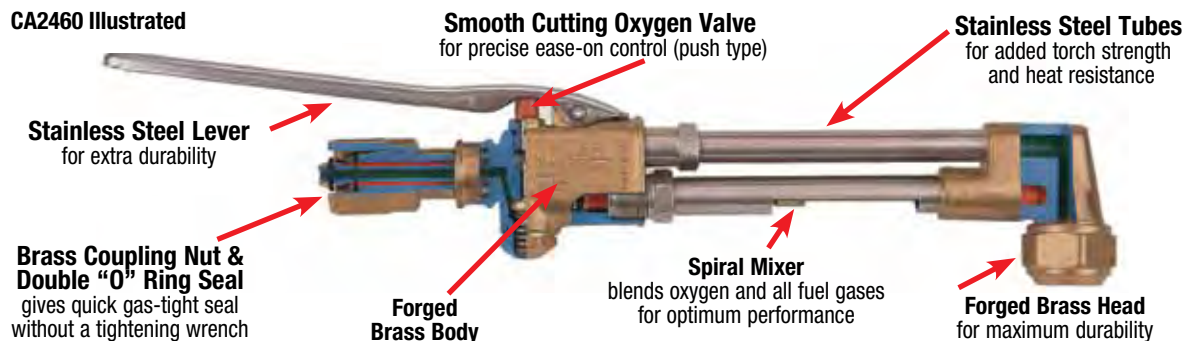
Victor torch handles have greater wall thickness than other designs.



Compact Balanced Attachments:

For cutting or heating. Each torch handle is designed for optimal balance and feel with its own nozzles and attachments. With proper balance of length and weight, operator fatigue is minimized.

CA2460 Illustrated



Handles and Cutting Attachments

HANDLES

HD 310C Torch Handle

Victor Heavy Industry

Built tough to withstand rugged job site conditions. Threaded assembly permits economical repair if service is necessary. The HD 310C has "B" hose connections with built-in reverse flow check valves for added safety.

The HD 310C is compatible with high capacity heating nozzles and all Victor 300 Series equipment.



Welding & Cutting Equipment:

- MFA & MFN heating nozzles
- Type 55 high capacity heating nozzles
- CA 2460 cutting attachment
- W Series welding nozzles

WARNING:

- Use flashback arrestors
- Although built to Victor's quality and safety standards, due to the flow capacity requirements, flashback arrestors are not manufactured into this Victor heavy industry torch handle
- To reduce the risk of personal injury, death and/or property damage, use sufficient capacity flashback arrestors with all Victor heavy industry torch products

Part No.	Model No.	Hose Connection	Gas	Weight	Length
0382-0015	HD 310C	"B" 9/16"-18 (CGA 022 & 023)	All	28 oz.	11" (279.4 mm)

For best performance, use the following recommended equipment:

Part No.	Model	Type
Flashback Arrestors		
Oxygen: (Select one of the following)		
0657-0010	*FB-0	Torch Mount
0657-0014	FB-OR	Regulator Mount
Fuel: (Select one of the following)		
0657-0011	*FB-F	Torch Mount
0657-0015	FB-FR	Regulator Mount
Pair Packs		
0656-0001	*FB-1	Oxy/Fuel Torch Mount
0656-0004	FBR-1	Oxy/Fuel Regulator Mount

*Torch mount models also protect the hose

H 315FC & 315FC Torch Handles

Extra Heavy Duty & Heavy Duty

H 315FC
Extra Heavy Duty



315FC
Heavy Duty



Victor torch handles are available with VanGuard™ safety features:

- Built-in flashback arrestors – no need for accessory flash arrestors
- Built-in reverse flow check valves – no need for accessory check valves
- Works with all fuel gases. There are pressure restrictions for different gases

VanGuard torch handles are offered in extra heavy duty (H 315FC), heavy duty (315FC) and medium duty (100FC) models, and available in Victor's most popular outfit models. VanGuard torch handles also feature Victor traditional threaded assemblies for economical repair if service is necessary.

Part No.	Model No.	Description	Hose Connection	Gas	Weight	Length
0382-0316	H 315FC	High Flow Torch Handle	9/16"-18	All	20 oz.	9" (228.6 mm)
0382-0034	315FC	"VanGuard" Heavy Duty	9/16"-18	All	18 oz.	9" (228.6 mm)
0387-0008	315FC	"VanGuard" Heavy Duty (Clamshell)	9/16"-18	All	18 oz.	9" (228.6 mm)

320 Torch Extension

- For use with 300 Series torch handles
- Works with all fuel gases
- 320 Torch Extension works with these torch handles: 310C, H 315FC, 315FC, WH 370FC-V, and WH 370FC-FS



Part No.	Description	Hose Connection	Gas	Weight	Length
0382-0019	320 Torch Extension	9/16"-18	All	16 oz.	12" (304.9 mm)

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100FC Torch Handle

Medium Duty



Victor torch handles cover the full range of welding, cutting and heating needs. Performance matched cutting attachments are available for each torch handle series. VanGuard™ handles include built-in flashback arrestors and reverse flow check valves.

Victor torch handles are available with VanGuard safety features:

- Built-in flashback arrestors - no need for accessory flash arrestors
- Built-in reverse flow check valves - no need for accessory check valves
- Works with all fuel gases (pressure restrictions for different gases)

VanGuard torch handles are offered in extra heavy duty (H 315FC), heavy duty (315FC) and medium duty (100FC) models, and available in Victor's most popular outfit models. VanGuard torch handles also feature Victor traditional threaded assemblies for economical repair if service is necessary.

Part No.	Model No.	Description	Hose Connection	Gas	Weight	Length
0382-0032	100FC	"VanGuard" Medium Duty	9/16"-18	All	14 oz.	8.5" (215.9 mm)
0387-0011	100FC	"VanGuard" Medium Duty (Clamshell)	9/16"-18	All	14 oz.	8.5" (215.9 mm)

J-28 & J-40 Torch Handles

Light Duty

Victor torch handles cover the full range of welding, cutting and heating needs. Choose from patented standard models. Performance matched cutting attachments are available for each torch handle series.



J-28



Part No.	Model No.	Description	Hose Connection	Gas	Weight	Length
0382-0006	J-40	Standard Light Duty	"A" Hose CGA 021/022	All	5.5 oz.	3.75" (95.3 mm)
0382-0127	J-28	Light Duty	"A" Hose CGA 021/022	All	8.5 oz.	6" (152.4 mm)

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

Handles and Cutting Attachments

CUTTING ATTACHMENTS

CA 2460 Cutting Attachments

Heavy Duty

(for use with all fuel gases)

300 Series

Performance matched for each torch handle series

- Forged brass head
- Spiral mixer blends oxygen & fuel
- Smooth cutting valve (push type)
- Stainless steel tubes
- Brass coupling nut & double "O" ring tapered seal gives quick gas-tight seal without a tightening wrench
- Length 10.5" (266.7 mm) - Weight 32 oz. (0.91 kg)



Part No.	Model No.	Cutting Range	Tip Series	Head Angle
0381-0816	CA 2460	8" (203.2 mm)	1	90°
0387-0000	CA 2460 CS	8" (203.2 mm)	1	90°
0381-0817	CA 2461	8" (203.2 mm)	1	75°
0381-0818	CA 2462	8" (203.2 mm)	1	180°
0381-0823	CA 2470	7" (177.8 mm)	3	90°

CS = Clamshell Package

CA 1350 Cutting Attachments

Medium Duty

(for use with all fuel gases)

100 Series

Performance matched for each torch handle series.

- Forged brass head
- Spiral mixer blends oxygen & fuel
- Smooth cutting valve (pull type)
- Stainless steel tubes
- Brass coupling nut & double "O" ring seal gives quick gas-tight seal tightening with out wrench
- Length 8" (203.2 mm) - Weight 13 oz. (0.37 kg)



Part No.	Model No.	Cutting Range	Tip Series	Head Angle
0381-0418	CA 1350	6" (152.4 mm)	3	90°
0387-0005	CA 1350 CS	6" (152.4 mm)	3	90°
0381-0420	CA 1351	6" (152.4 mm)	3	75°
0381-0421	CA 1352	6" (152.4 mm)	3	180°

CS = Clamshell Package

CA 1260 Cutting Attachment

Light Duty

(for use with all fuel gases)

J Series

Performance matched for each torch handle series.

- Forged brass head
- Spiral mixer blends oxygen & fuel
- Smooth cutting valve (pull type)
- Stainless steel tubes
- Brass coupling nut & double "O" ring seal gives quick gas-tight seal tightening without wrench
- Length 8" (203.2 mm) - Weight 13 oz. (0.37 kg)



Part No.	Model No.	Cutting Range	Tip Series	Head Angle
0381-0162	CA 1260	3" (76.2 mm)	3	90°
0387-0003	CA 1260 CS	3" (76.2 mm)	3	90°

CS = Clamshell Package

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Change the Tip, Not the Torch

One Torch ALL Fuels

Switching from oxy-acetylene to oxy-propylene or other alternative gases requires changing the gas regulator and torch tips. A T-grade hose should be used with alternate fuels. Victor torches can easily accommodate any industrial fuel gas

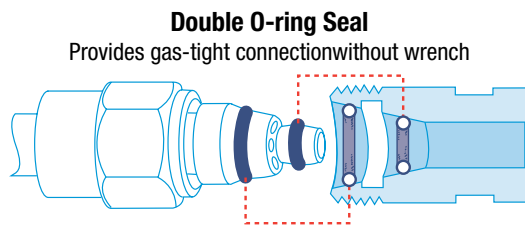
Acetylene

Propylene

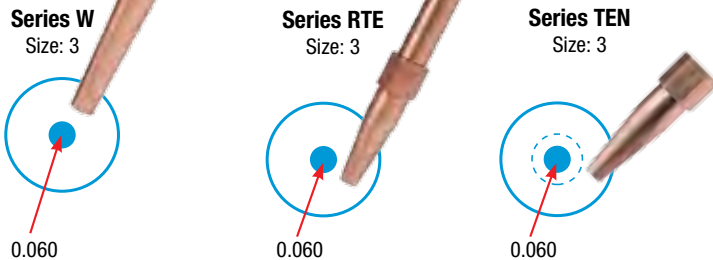
Propane / Natural Gas

Welding & Heating Nozzles/Tips

HEATING NOZZLES / HEATING TIPS / WELDING NOZZLES



Flame orifice size the same for all nozzle series

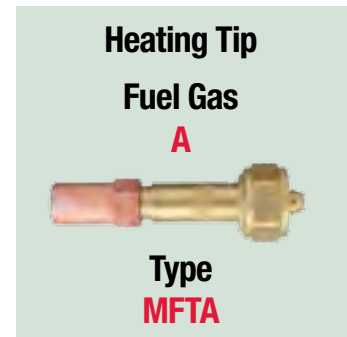


Exclusive “OPTIMIZED” nozzles with a large choice of types and sizes, plus uniformity of tip orifice and size for all series

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 (W, W-1, W-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.



Welding Nozzle Operational Data/Acetylene

Covers Series W (Heavy Duty), W-1 (Medium Duty) And W-J (Light Duty) Series

Operational & Performance Data						
Metal In	Thickness Mm	Tip Size	Drill Size	Oxygen (Psig)	Acetylene (Psig)	Acetylene (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	1	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 1/4"	32.0	7	30 (0.128)	8/16	8/10	30/60
2"	51.0	8	29 (0.136)	10/19	9/12	35/75
2"	76.2	10	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	RTE	000-6, 8, 10	
	H 315FC			
General purpose welding and preheating. Swaged one-piece copper elbow. Flame characteristic – Long cone	315FC	W	000-8, 10	
	100FC	W-1	000-7	
	J-28 J-40	W-J	000-4	

Welding & Heating Nozzles/Tips

HEATING GUIDE / NOZZLE REFERENCE GUIDE

Type 55/55-1 Multi-Flame Heating Nozzles

For Use with 300, HD 310C Series Torch Handles

Victor Heavy Industry

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 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



Part No.	Type	Available Size	Available Length	Series
0323-0326	55	20*	28" (711.2 mm)	HD 310C
0323-0325	55	15*	28" (711.2 mm)	HD 310C
0323-0324	55	10*	28" (711.2 mm)	HD 310C
0323-0328	55	8	11" (279.4 mm)	HD 310C / 300
0323-0327	55	6	11" (279.4 mm)	300
0324-0188	55-1	6	11" (279.4 mm)	100

*Size 10, 15 and 20 Type 55 heating nozzles must be used with HD 310C torch handle and 3/8" (9.5 mm) hose.

WARNING: Type 55 for all alternative fuel gases – Not for use with acetylene

Type 55 – for use with Propylene based fuel gases, Methane, Propane, Butane, pressurized Natural Gas, all fuel gases except Acetylene

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	
10	70/100	15/25	356/460	150/200	
15	90/120	20/35	600/800	250/350	
20	100/150	30/50	900/1150	400/500	

WARNING: Not for use with acetylene

BTU Per Hour

To approximate gross BTU output, multiply flow rate by BTU value listed below:

Propane	2498
Natural Gas	1000
Butane	3374
Propylene	2371

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 the 310C Series 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

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.



0328-0012 & 0328-0013
Mixer and Nut Assembly

Part No.	Available Size	Application/Description	Available Length	Available Angles	Series
0311-0232	20*	Multi-Flame Heads	--	--	HD 310C
0311-0231	15*	Multi-Flame Heads	--	--	HD 310C
0311-0230	10*	Multi-Flame Heads	--	--	HD 310C
0311-0241	8	Multi-Flame Heads	--	--	HD 310C / 300
0311-0240	6	Multi-Flame Heads	--	--	300
0304-0002	--	Multi-Flame Elbows	14" (355.6 mm)	65°	HD 310C / 300
0304-0095	--	Multi-Flame Elbows	16" (406.4 mm)	180°	HD 310C / 300
0304-0011	--	Multi-Flame Elbows	26" (660.4 mm)	65°	HD 310C / 300
0328-0012		Mixer and nut assembly, for use with pressures from 10 PSIG and up.			HD 310C / 300
0328-0013		Mixer and nut assembly, for use with pressures from 2 - 10 PSIG.			HD 310C / 300
0312-0064		Extension Adapter - Thread specifications: 1/4"- 18 NPT(F) X 1/2"- 27 UNS(F)"			HD 310C / 300

*Size 10, 15 and 20 Type 55 heating nozzles must be used with HD 310C torch handle and 3/8" (9.5 mm) hose.

WARNING: Type 55 for all alternative fuel gases – Not for use with acetylene

NOZZLES

MFN/MFN-1 Heating Nozzles

For Use with 100, 300 & HD310C Series
Torch Handles

Victor Heavy Industry

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



Part No.	Type	Size	Tip End Replacement	Length	Series
0323-0303	MFN	12*	--	17.5" (444.5 mm)	HD 310C
0323-0304	MFN	15*	--	17.5" (444.5 mm)	HD 310C
0323-0305	MFN	20*	--	17.5" (444.5 mm)	HD 310C
0323-0292	MFN	8	--	12.0" (304.8 mm)	300
0323-0302	MFN	10	--	17.5" (444.5 mm)	300
0324-0117	MFN-1	6	0311-0611	12.0" (304.8 mm)	100
0324-0118	MFN-1	8	0311-0612	12.0" (304.8 mm)	100

*Size 12, 15 and 20 MFN heating nozzles must be used with HD 310C torch handle and 3/8" (9.5 mm) hose.

WARNING: MFN for all alternative fuel gases – Not for use with acetylene

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	See Chart
8	10/20	10/15	40/140	10/35	
10	10/30	12/20	80/320	20/80	
12	30/125	15/25	120/640	30/160	
15	30/125	15/25	200/800	50/200	
20	40/135	15/25	300/1000	75/250	

WARNING: Not for use with acetylene

BTU Per Hour

To approximate gross BTU output, multiply flow rate by BTU value listed below:	
Propane	2498
Natural Gas	1000
Butane	3374
Propylene	2371

WARNING:

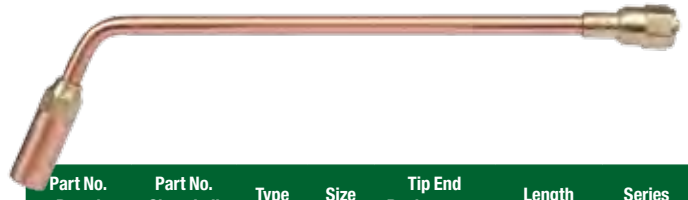
- Use flashback arrestors
- Although built to Victor's quality and safety standards, due to the cutting capacity and/or design of each torch, flashback arrestors are not manufactured into the 310C Series Victor heavy industry torches
- To reduce the risk of personal injury, death and/or property damage, 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 Heating Nozzles

For Use with J, 100, 300 & HD310C Series
Torch Handles

Victor Heavy Industry

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



Part No. Boxed	Part No. Clamshell	Type	Size	Tip End Replacement	Length	Series
0323-0261	0387-0064	MFA	12	0311-0540	17.5" (444.5 mm)	HD 310C
0323-0262	0387-0065	MFA	15	-	17.5" (444.5 mm)	HD 310C
0323-0250	0387-0060	MFA	4	0311-0536	12.0" (304.8 mm)	300
0323-0251	0387-0061	MFA	6	0311-0537	12.0" (304.8 mm)	300
0323-0252	0387-0062	MFA	8	0311-0538	12.0" (304.8 mm)	300
0323-0260	0387-0063	MFA	10	0311-0539*	17.5" (304.8 mm)	300
0324-0108	-	MFA-1	2	0311-0598	12.0" (304.8 mm)	100
0324-0109	0387-0071	MFA-1	4	0311-0599	12.0" (304.8 mm)	100
0324-0110	0387-0072	MFA-1	6	0311-0600	12.0" (304.8 mm)	100
0324-0111	0387-0073	MFA-1	8	0311-0601	12.0" (304.8 mm)	100
0325-0104	-	MFA-J	2	-		J
0325-0105	-	MFA-J	4	-		J
0325-0106	0387-0077	MFA-J	6	-		J

*Size 12, 20 and MFA heating nozzles must be used with HD 310C torch handle and 3/8" (9.5 mm) hose.

Type MFA, MFA-1 – for use with Acetylene

Tip Size	Oxygen Pressure (PSIG)	Acetylene Pressure (PSIG)	Oxygen Consumption (SCFH)	Acetylene Consumption (SCFH)	BTU Per Hour
2	4/8	4/8	3/10	3/9	See Chart
4	8/12	6/10	7/22	6/20	
6	10/15	8/12	15/44	14/40	
8	20/30	10/15	33/88	30/80	
10	30/40	12/15	44/110	40/100	
12	50/60	12/15	66/165	60/150	
15	50/60	12/15	99/244	90/220	

BTU Per Hour

To approximate gross BTU output, multiply flow rate by BTU value listed below:	
Acetylene	1470
Methane	1000

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.

Welding & Heating Nozzles/Tips

HEATING NOZZLES / HEATING TIPS / WELDING NOZZLES

Series 1 Heating Tips

Type MFTA
Acetylene



For preheating before welding, descaling and paint burning etc.

Size	Part No.
6	0323-0527
8	0323-0528
*10	0323-0523
*12	0323-0524

*Use 3/8" (9.5m) hose and straight torch
Required pressures:
12/15 Acetylene; 70/80 PSIG Oxygen
Size 8 is maximum size for use with cutting attachments

Series 1 Heating Tips

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

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, or mixer and nut assembly



W Series Welding Nozzles

For use with
300 Series torch
handles



W-1

For use with
100 Series torch handles



W-J

For use with
J Series torch handles



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

Model	Size	Part No.		Length	Series
		Boxed	Clamshell		
W	000	0323-0110	-	4.5"	300
	00	0323-0111	0387-0019	4.5"	300
	0	0323-0112	0387-0020	4.5"	300
	1	0323-0120	0387-0021	4.5"	300
	2	0323-0121	0387-0022	4.5"	300
	3	0323-0122	0387-0023	4.5"	300
	4	0323-0130	0387-0024	4.5"	300
	5	0323-0131	-	4.5"	300
	6	0323-0132	-	4.5"	300
	7	0323-0140	-	4.5"	300
8	0323-0141	-	4.5"	300	
10	0323-0142	-	14"	300	
W-1	000	0324-0068	0387-0028	4.5"	100
	00	0324-0069	0387-0029	4.5"	100
	0	0324-0070	0387-0030	4.5"	100
	1	0324-0071	0387-0031	4.5"	100
	2	0324-0072	0387-0032	4.5"	100
	3	0324-0073	0387-0033	4.5"	100
	4	0324-0074	0387-0034	4.5"	100
5	0324-0075	-	4.5"	100	
6	0324-0076	-	4.5"	100	
W-J	000	0325-0081	-	4.5"	J
	00	0325-0082	0387-0039	4.5"	J
	0	0325-0083	0387-0040	4.5"	J
	1	0325-0084	0387-0041	4.5"	J
	2	0325-0085	0387-0042	4.5"	J
	3	0325-0086	0387-0043	4.5"	J
	5	0325-0088	-	4.5"	J
6	0325-0089	-	4.5"	J	
7	0325-0090	-	4.5"	J	

NOZZLES

ET Series Elbow Tips

For use with 300 Series torch handles



ET-1

For use with 100 Series torch handles



ET-J

For use with J Series torch handles



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

Model	Size	Part No.	Series
ET	000	0311-0055	300
	00	0311-0056	300
	0	0311-0057	300
	1	0311-0058	300
	2	0311-0059	300
	3	0311-0572	300
	4	0311-0573	300
	5	0311-0574	300
	6	0311-0575	300
	7	0311-0576	300
8	0311-0577	300	
10	0311-0073	300	
ET	000	0311-0055	100
	00	0311-0056	100
	0	0311-0057	100
	1	0311-0058	100
	2	0311-0059	100
ET-1	3	0311-0345	100
	4	0311-0340	100
	5	0311-0602	100
	6	0311-0603	100
	ET-J	000	0311-0123
00		0311-0124	J
0		0311-0125	J
1		0311-0126	J
2		0311-0127	J
4		0311-0129	J

UM Series Universal Mixers



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

Type	Part No.	Fuel Gas Usage	Elbow Tips	Length	Series
4-UM-1	0328-0005	Oxy-Acetylene	000-2 ET, 3 ET-1, 4 ET-1	1.75" (44.5 mm)	100
7-UM-1	0328-0009	Oxy-Acetylene	5 ET-1, 6 ET-1	1.75" (44.5 mm)	100

RTE Series Replaceable Tip Ends

For use with 300 Series torch handles

- General purpose welding & preheating
- Uses replacement tip ends (TE Series)
- 65° tip angle



RTE

- General purpose brazing & preheating
- Long cone flame
- Uses TEN tip ends

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

Welding & Heating Nozzles/Tips

WELDING NOZZLES

FE Series Flexible Elbow



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

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

UN Series Universal Nozzle

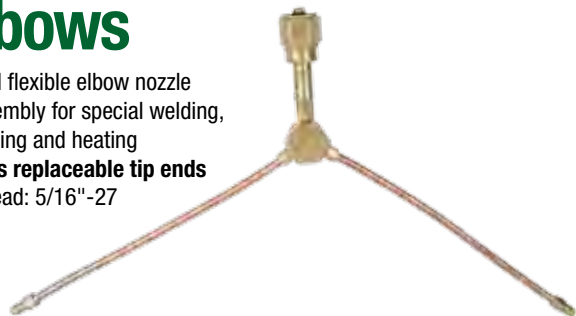
- Standard bend nozzle for welding, brazing and heating
- **Uses replaceable tip ends**
- 65° tip angle
- Thread: 5/16"-27



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

DFE Series Dual Flexible Elbows

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



Type	Part No.	Fuel Gas Usage	Tip End Replacements	Length	Series
DFE	0323-0192	Multi-Gas Fuel Service	TE, TEN, TEMFA, TEMFN, TEMF	-	300
DFE-1	0324-0092	Multi-Gas Fuel Service	TE, TEN, TEMFA, TEMFN, TEMF	-	100
DFE-J	0325-0108	Multi-Gas Fuel Service	TE, TEN, TEMFA, TEMFN, TEMF	-	J

Replaceable Tip Ends

TE, TEN, TEMFA, TEMFN & TEMF 300, 100 & J Series

For All Nozzles Using Replaceable Tip Ends			
Type	Application, Description	Fuel Gas	Illustration
TE	Welding, brazing Flame – long Cone One piece	Acetylene	
TEN	Brazing, silver brazing Flame – long Cone One piece	Natural Gas, Propane	
TEMFA	Brazing, silver brazing, heating Flame – multi-flame One piece	Acetylene	
TEMFN	Brazing, silver brazing, heating Flame – multi-flame One piece	All Fuel Gases Except Acetylene	
TEMF	Brazing, soldering, heating Flame – multi-flame Two piece	All Fuel Gases Except Acetylene	

Tip Size, Length, Thread Size				
Type	Size(s)	Length	Thread	Part No.
TE	000	1.5" (38.1 mm)	5/16"-27	0311-0471
	00	1.5" (38.1 mm)	5/16"-27	0311-0472
	0	1.5" (38.1 mm)	5/16"-27	0311-0473
	1	1.5" (38.1 mm)	5/16"-27	0311-0474
	2	1.5" (38.1 mm)	5/16"-27	0311-0475
	3	1.63" (41.4 mm)	5/16"-27	0311-0587
	4	1.88" (47.8 mm)	5/16"-27	0311-0588
	5	2" (50.8 mm)	5/16"-27	0311-0589
	6	2.25" (57.2 mm)	0.393-27	*0311-0590
	8	2.75" (69.9 mm)	0.393-27	*0311-0592
TEN	10	3" (76.2 mm)	0.440-27	*0311-0593
	0	1.5" (38.1 mm)	5/16"-27	0311-0483
	2	1.5" (38.1 mm)	5/16"-27	0311-0485
	3	1.63" (41.4 mm)	5/16"-27	0311-0486
	4	1.88" (47.8 mm)	5/16"-27	0311-0487
	5	2" (50.8 mm)	5/16"-27	0311-0488
TEMFA	6	2.25" (57.2 mm)	0.393-27	*0311-0585
	1	1.5" (38.1 mm)	5/16"-27	0311-0215
	2	1.5" (38.1 mm)	5/16"-27	0311-0216
	3	1.5" (38.1 mm)	5/16"-27	0311-0217
	4	1.5" (38.1 mm)	5/16"-27	0311-0218
TEMFN	5	1.5" (38.1 mm)	5/16"-27	0311-0219
	3	1.5" (38.1 mm)	5/16"-27	0311-0306
	4	1.5" (38.1 mm)	5/16"-27	0311-0307
TEMF	5	1.5" (38.1 mm)	5/16"-27	0311-0308
	6	1.5" (38.1 mm)	5/16"-27	0311-0676
	7	1.5" (38.1 mm)	5/16"-27	0311-0677
	8	1.5" (38.1 mm)	5/16"-27	0311-0678
	9	1.5" (38.1 mm)	5/16"-27	0311-0679
	10	1.5" (38.1 mm)	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

Torches

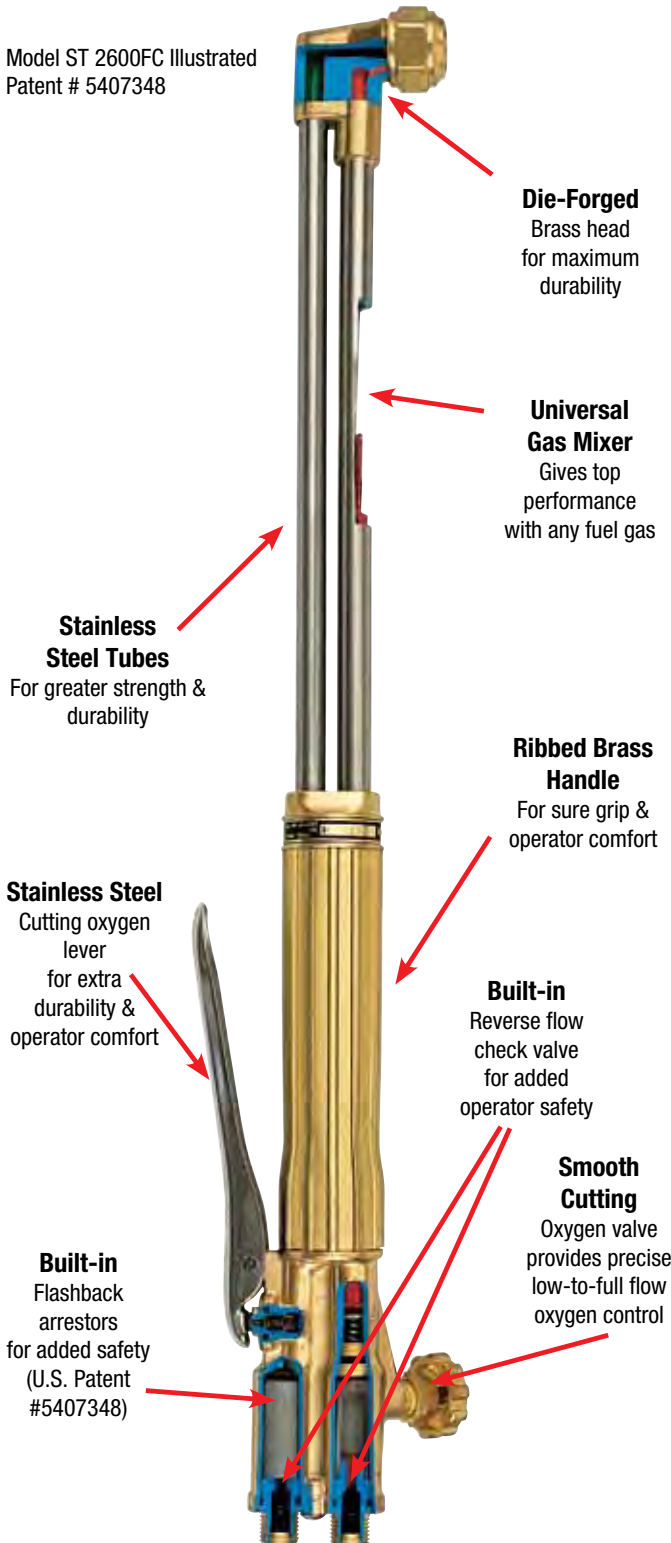
STRAIGHT CUTTING TORCHES

Victor "Universal Torches"

They combine the spiral and injector mixer principles. The result is a high performance torch that operates on any fuel gas.

Universal torch cutting capacity from 1/8" (3.2 mm) to 8" (203.2 mm).

Model ST 2600FC Illustrated
Patent # 5407348



Die-Forged
Brass head
for maximum
durability

**Universal
Gas Mixer**
Gives top
performance
with any fuel gas

**Stainless
Steel Tubes**
For greater strength &
durability

**Ribbed Brass
Handle**
For sure grip &
operator comfort

Stainless Steel
Cutting oxygen
lever
for extra
durability &
operator comfort

Built-in
Reverse flow
check valve
for added
operator safety

**Smooth
Cutting**
Oxygen valve
provides precise
low-to-full flow
oxygen control

Built-in
Flashback
arrestors
for added safety
(U.S. Patent
#5407348)

The high capacity straight torches in this section are designed for heavy cutting applications found in such industries as scrapping, demolition and foundries.



Warning

Use add-on 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.

Do you need special length torches?

If you don't see what you need:

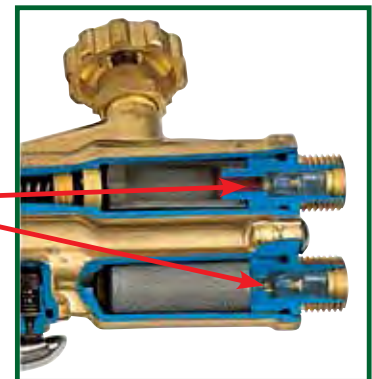
Call 800-426-1888 or

Fax: 800-535-0557

Reference Heavy Industry Products

Victor welcomes your request for
special length torches.

Built-in
Reverse flow
check valve
for added
operator safety



Most Victor Hand Cutting Torches

Are equipped with built-in reverse
flow check valves & flash arrestors

Torches

STRAIGHT CUTTING TORCHES



HC 1500C

Victor Heavy Industry Three Hose Scrap Straight Cutting Torch

The HC 1500C Series is a three hose design with a 48" cutting capacity and is ideal for heavy steel, scrap cutting. The torch has "C" 7/16"-14 (RH) oxygen connection and standard "B" 9/16"-18 oxygen/fuel preheat connections.

The HC 1500C is manufactured without built-in flashback arrestors. Reverse flow check valves are installed at the inlet connection.

- Three hose connection
- Extra heavy duty
- Cutting capacity 48" (121.9 cm)
- Length: 56" (142.2 cm)
- For use with propane or natural gas
- Not for use with acetylene
- Uses Series 2-285N (two piece) cutting tips
- Special lengths available on request

Part No.	Model No.	Head Angle	Hose Connection Preheat	Hose Connection Cutting (Oxygen)	Length	Fuel Gas	Cutting Capacity
0381-0444	HC 1500C	180°	"B" 9/16" -18 LH & RH	"C" 7/8" -14 RH	56" (142.2 cm)	Natural Gas and Propane	48" (121.9 cm)
0381-0509	HC 1500C	90°	"B" 9/16" -18 LH & RH	"C" 7/8" -14 RH	84" (213.4 cm)	Natural Gas and Propane	48" (121.9 cm)
0381-0515	HC 1500C	90°	"B" 9/16" -18 LH & RH	"C" 7/8" -14 RH	96" (243.8 cm)	Natural Gas and Propane	48" (121.9 cm)

Uses Series 2-285N (two piece) cutting tips. See chart below

WARNING: Use add-on flashback arrestors

For best performance, use the following recommended equipment:

Part No.	Model	Type
Flashback Arrestors		
Cutting Oxygen: Not required		
Preheat Oxygen: (Select one of the following)		
0657-0076	*FBHC-0	Torch Mount
0657-0078	FBHC-OR	Regulator Mount
*Torch mount models also protect the hose		
Hoses (Contact local distributor for hose information.)		
Cutting Oxygen: 1/2" I.D. with "C" hose (7/16"-14 RH) connections – Use T-grade or RM-grade hose		
Preheat Oxygen: 3/8" I.D. with "B" hose (9/16"-18 RH) connections – Use T-grade hose		
Preheat Fuel: 3/8" I.D. with "B" hose (9/16"-18 LH) connections – Use T-grade hose		
Regulators		
Cutting Oxygen: ELC4, ESS4-125-540R, ESS7-125-540, SR 700D- 540, or S or L 700D-500/750 line supply		
Preheat Oxygen: ESS4-125-540, SR 450D-540, or S or L 700D-500/750 line supply		
Preheat Fuel: ESS4-125-510LP, SR 461D-510, or S or L 711D-500/750 line supply		

2-285N Two Piece Tips – for use with the HC 1500C torches

Part No.	Model No.	Size	Cutting Range	Cutting Orifice Dia.	*Cutting Oxy (PSIG)	Cutting Oxy (SCFH)	Preheat Oxy (PSIG)	Preheat Oxy (SCFH)	*Fuel (PSIG)	Fuel (SCFH)
0336-0041	2-285N	0.25	14" to 20"	0.25	25/45	1500/2400	25/50	250/400	15/20	60/120
0336-0042	2-285N	0.312	20" to 26"	0.312	25/45	2300/3500	25/50	250/400	15/20	60/120
0336-0043	2-285N	0.375	26" to 34"	0.375	20/40	2300/3900	25/50	250/400	15/20	60/120
0336-0044	2-285N	0.437	34" Over	0.437	20/40	2400/4500	25/50	250/400	15/20	60/120

*Pressure is measured at back of torch when torch is flowing

Oxygen Consumption:

1. Adequate volume required. Dual supplies recommended when using cylinders.
2. When operating from bulk oxygen supply it is recommended that separate oxygen drop stations are used.



HC 1400 Series

Victor Heavy Industry Two Hose / High Capacity / Extra Heavy Duty Straight Cutting Torch

The HC 1400 Series is a two hose design with a 30" (76.2 cm) cutting capacity. These torches are high capacity, extra heavy duty cutting torches specifically designed for billet cutting or caster cut-off. Other applications include steel mill scrap cutting, foundry work, and riser removal.

The HC 1400 Series is manufactured without built-in flashback arrestors or reverse flow check valves

- Two hose connection
- Extra heavy duty with lock down lever
- Cutting capacity up to 30" (76.2 cm)
- Standard lengths: 36" (68.6 cm) – 96" (243.8 cm)
- For use with propane or natural gas (not for use with acetylene)
- Uses Series 1, HDNL cutting tips

Inlet Connections:

Oxygen: 7/8"-14 RH "C" Hose
(with 9/16"-18 RH "B" Hose Adaptor)

Fuel: 9/16"-18 LH "B" Hose

Torch Part No.	Model No.	Head Angle	Length
0381-0771	HC 1411	75°	27" (68.6 cm)
0381-0774	HC 1431	75°	36" (91.4 cm)
0381-0773	HC 1430	90°	36" (91.4 cm)
0381-0775	HC 1432	180°	36" (91.4 cm)
0381-0776	HC 1450	90°	48" (121.9 cm)
0381-0777	HC 1451	75°	48" (121.9 cm)
0381-0778	HC 1452	180°	48" (121.9 cm)
0381-0782	HC 1460	90°	60" (152.4 cm)
0381-0783	HC 1461	75°	60" (152.4 cm)
0381-0784	HC 1462	180°	60" (152.4 cm)
0381-0779	HC 1470	90°	72" (182.9 cm)
0381-0780	HC 1471	75°	72" (182.9 cm)
0381-0781	HC 1472	180°	72" (182.9 cm)
0381-0785	HC 1490	90°	96" (243.8 cm)
0381-0787	HC 1492	180°	96" (243.8 cm)

WARNING: Use add-on flashback arrestors and check valves

For best performance, use the following recommended equipment:

Part No.	Model	Type
Flashback Arrestors		
Oxygen: (Select one of the following)		
0657-0077	*FBHC-OC	Torch Mount
0657-0079	FBHC-ORC	Regulator Mount
Oxygen flashback arrestors not recommended when using tip sizes: 14-16		
Fuel: (Select one of the following)		
0657-0011	*FB-F	Torch Mount
0657-0015	FB-FR	Regulator Mount
*Torch mount models also protect the hose		

Hoses (Contact local distributor for hose information)

Oxygen: 1/2" (12.7mm) I.D. with "C" hose (7/16"-14 RH) connections. Use T-grade or RM hose

Fuel: 3/8" (9.5mm) I.D. with "B" hose (9/16"-18 LH) connections. Use T-grade hose

Regulators

Oxygen: ELC4, ESS4-125-540R, ESS7-125-540, SR 700D- 540, or S or L 700D-500/750 line supply

Fuel: ESS4-125-510LP, SR 461D-510, or S or L 711D-500/750 line supply

One Piece Cutting Tips

Part No.	Model No.	Size	Cutting Ranges		Cutting Orifice Dia.		*Oxygen (PSIG/KPA)	Oxygen (SCFH/LPM)	*Fuel (PSIG/KPA)	Fuel (SCFH/LPM)
			in	mm	in	mm				
0330-0547	HDNL	10	18	457.2	0.185	4.70	60-100/441-600	750-1650/4354-789	5-15/35-104	90-120/43-57
0330-0548	HDNL	12	22	558.8	0.221	5.61	60-100 /441-690	1000-1950/472-920	5-15/35-104	130-160/61-76
0330-0549	HDNL	14	26	660.4	0.250	6.35	60-100/441-690	1600-2500/755-1180	15-15/35-104	150-190/71-90
0330-0550	HDNL	**16	30	762.0	0.281	7.14	60-100/441-690	1800-3000/850-1418	5-15/35-104	200-240/94-113

*Flowing pressure at back of torch **Need 1/2" hose for oxygen

Torches

STRAIGHT CUTTING TORCHES



HC 1200C Series

Victor Heavy Industry

High Capacity/Heavy Duty

The HC 1200C Series torches are high capacity, heavy duty cutting torches that have a cutting capacity up to 18" (45.7 cm). These torches are used in a wide variety of heavy industrial applications that include scrapping and demolition.

The HC 1200C is manufactured without built-in flashback arrestors. Revers flow check valves are installed at the inlet connection

- For use with any fuel gas, 2 PSIG and above
- Universal mixer
- Cutting capacity 18" (45.7 cm)
- Standard Lengths:
21" (53.3 cm) - 96" (243.8 cm)
- Uses Series 1 cutting tips
- "B" 9/16"-18 hose connections
- Extra length models available upon request
- Lock down lever kit available
part number 0307-0062

WARNING:

- Use add-on 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

Torch Part No.	Model No.	Head Angle	Length
0381-1402	HC 1200C	90°	21" (53.3 cm)
0381-1403	HC 1201C	75°	21" (53.3 cm)
0381-1404	HC 1202C	180°	21" (53.3 cm)
0381-1405	HC 1230C	90°	36" (91.4 cm)
0381-1406	HC 1231C	75°	36" (91.4 cm)
0381-1407	HC 1232C	180°	36" (91.4 cm)
0381-1408	HC 1250C	90°	48" (121.9 cm)
0381-1432	HC 1250LC*	90°	48" (121.9 cm)
0381-1409	HC 1251C	75°	48" (121.9 cm)
0381-1415	HC 1252C	180°	48" (121.9 cm)
0381-1419	HC 1262C	180°	60" (152.4 cm)
0381-1412	HC 1270C	90°	72" (182.9 cm)
0381-1413	HC 1271C	75°	72" (182.9 cm)
0381-1414	HC 1272C	180°	72" (182.9 cm)
0381-1424	HC 1280C	90°	84" (213.4 cm)
0381-1418	HC 1290C	90°	96" (243.8 cm)

* Locking Lever

For best performance, use the following recommended equipment:

Part No.	Model	Type	Tip Sizes Recommended for use with each model
Flashback Arrestors			
Oxygen: (Select one of the following)			
0657-0010	*FB-O	Torch Mount	Up to size: 8
0657-0014	FB-OR	Regulator Mount	Up to size: 8
0657-0076	*FBHC-O	Torch Mount/High Flow	10 and larger
0657-0078	FBHC-OR	Regulator Mount/High Flow	10 and larger
Fuel: (Select one of the following)			
0657-0011	*FB-F	Torch Mount	-
0657-0015	FB-FR	Regulator Mount	-

*Torch mount models also protect the hose

Hoses (Contact local distributor for hose information)

Oxygen: 3/8" (9.5 mm) I.D. with "B" hose (9/16"-18 LH) connections. Use T-grade hose

Fuel: 3/8" (9.5 mm) I.D. with "B" hose (9/16"-18 LH) connections. Use T-grade hose

Regulators

Oxygen: ELC4, ESS4-125-540R, ESS7-125-540, SR 450D- 540 Cylinder, SR 700D-540 cylinder or L 700D/E-500/750 line supply

Fuel: ESS4-125-510, SR 461D-510 cylinder, SR 711B/C/D-510 or L 711B/C/D-500/750 line supply

HC 1200C Cutting Tips

Part No.	Model No.	Metal Thickness		Cutting Oxygen Pressure		Oxygen		Fuel Pressure		Speed I.P.M.	Kerf Width
		in	mm	PSIG	SCFH	*PSIG	SCFH	PSIG	SCFH		
Acetylene (general purpose tips)											
0330-0009	6-1-101	8	203.2	45/55	500/600	-	37/55	7/14	34/50	5/6	0.19
0330-0013	7-1-101	10	254.0	45/55	700/850	-	44/62	10/15	40/56	4/5	0.34
0330-0014	8-1-101	12	304.8	45/55	900/1000	-	53/68	10/15	48/62	3/5	0.41
Tips for descaling, scarfing, gauging, weld preparation, removing defective welds and washing rivets											
0330-0114	4-1-118	-	-	40/50	270/320	-	20/33	5/10	18/30	9/12	0.12
0330-0115	6-1-118	-	-	45/55	500/600	-	37/55	7/14	34/50	5/6	0.19
0330-0116	8-1-118	-	-	45/55	900/1000	-	56/68	10/15	48/62	3/5	0.41
Multi-flame heating tips											
0330-0527	6-MFTA	-	-	-	-	10/15	15/44	8/12	14/40	-	-
0330-0528	8-MFTA	-	-	-	-	20/30	33/88	10/15	30/80	-	-
0330-0523	10-MFTA	-	-	-	-	30/40	44/110	12/15	40/100	-	-
0330-0524	12-MFTA	-	-	-	-	50/60	66/165	12/15	60/150	-	-
Natural gas, propane (general purpose tips)											
0333-0308	6-GPN	8	203.2	55/65	450/500	-	40/220	8/12	20/100	4/6	0.18
0333-0309	7-GPN	10	254.0	55/65	600/700	-	40/220	8/12	20/100	3/5	0.34
0333-0310	8-GPN	12	304.8	60/70	750/850	-	40/220	10/15	20/100	3/4	0.34
Tips for descaling, scarfing, gouging, weld preparation, removing defective welds, washing rivets											
0330-0178	4-1-128	-	-	45/50	210/250	-	23/108	8/12	16/20	8/11	0.12
0330-0179	6-1-218	-	-	55/65	450/500	-	23/153	10/15	23/35	4/6	0.18
Tips for coarse splined scrap cutting - using natural gas / propane											
0333-0411	8-CSN	12	304.8	60/70	750/850	-	50/265	10/14	25/120	3/4	0.41
Tips for mill and foundry scrap cutting under severe conditions, use 0309-0025 tip nut											
0330-0504	6-HDN	8	203.2	55/65	450/500	-	44/240	8/12	22/110	4/6	0.18
0330-0505	8-HDN	12	304.8	60/70	750/850	-	50/265	10/14	25/120	3/4	0.41
0330-0506	10-HDN	14	355.6	55/65	1000/1200	-	50-265	10/16	25/120	2/4	-
0330-0507	12-HDN	16	406.4	45/55	1150/1350	-	60/290	12/18	30/130	2/3	-
0330-0508	14-HDN	18	457.2	45/55	1300/1500	-	60/290	12/18	30/130	2/3	-
Heavy preheat tips for scrap, bevel & other											
0333-0328	6-HPN	8	203.2	55/65	450/500	-	44/240	8/12	22/110	4/6	0.18
0333-0330	8-HPN	10	254.0	60/70	750/850	-	50/265	10/14	25/120	3/4	0.41
0333-0331	10-HPN	12	304.8	45/55	1000/1200	-	50/265	10/16	25/120	2/4	-
0333-0332	12-HPN	14	355.6	45/55	1150/1350	-	60/290	12/18	30/130	2/3	-
Heavy wall shell for scrap, bevel & other severe conditions											
0333-0666	6-HWN	8	203.2	55/65	450/5000	-	44/240	8/12	22/110	4/6	-
0333-0668	8-HWN	10	254.0	60/70	750/850	-	50/265	10/14	25/120	3/4	0.18
0333-0670	10-HWN	12	304.8	45/55	1000/1200	-	50/265	10/16	25/120	2/4	0.41
0333-0671	12-HWN	14	355.6	45/55	1150/1350	-	60/290	12/18	30/130	2/3	-
Multi-flame heating tips											
0330-0521	10-MFTN	-	-	-	-	10/30	80/320	12/20	20/80	-	-
0330-0522	12/MFTN	-	-	-	-	30/125	120/640	15/25	30/60	-	-

*Preheat oxygen pressure is controlled by cutting oxygen pressure when using cutting tips

Torches

STRAIGHT CUTTING TORCHES



Bulldog™ - HC 1100C

Victor Heavy Industry Scrap Straight Cutting Torch

With Bulldog torches, superior performance and productivity are assured. The low profile head and lightweight design, strength and durability put Bulldog in a class by itself.

The HC 1100C is manufactured without built-in flashback arrestors. Revers flow check valves are installed at the inlet connection

- Patented head and mixer
- Bottom rear lever with pin/clip design
- Specially designed 'supercharged' preheat oxygen valve
- Reduces flame blow-off
- Bottom located valves for right or left hand use
- Threaded inlet connections with integral check valve for ease of repair
- Body designed for high flow applications
- 3 heavy duty tube supports for ultra strength and durability on extra length models
- UltraMix low-pressure mixer specially designed for LP gas
- Sleek low profile head with no protrusions to hinder cutting
- For use with propane and natural gas

Victor Bulldog with Victor Head

Part No.	Model No.	Lever Position	Tip Series	Head Angle	Overall Length
0381-1703	HC 1100C	Bottom Rear	1	90°	21" (53.3 mm)
0381-1704	HC 1101C	Bottom Rear	1	75°	21" (53.3 mm)
0381-1709	HC 1130C	Bottom Rear	1	90°	36" (91.4 mm)
0381-1710	HC 1131C	Bottom Rear	1	75°	36" (91.4 mm)
0381-1711	HC 1132C	Bottom Rear	1	180°	36" (91.4 mm)
0381-1712	HC 1150C	Bottom Rear	1	90°	48" (121.9 cm)
0381-1713	HC 1151C	Bottom Rear	1	75°	48" (121.9 cm)
0381-1714	HC 1152C	Bottom Rear	1	180°	48" (121.9 cm)
0381-1716	HC 1161C	Bottom Rear	1	75°	60" (152.4 cm)
0381-1717	HC 1162C	Bottom Rear	1	180°	60" (152.4 cm)
0381-1718	HC 1170C	Bottom Rear	1	90°	72" (182.9 cm)
0381-1719	HC 1171C	Bottom Rear	1	75°	72" (182.9 cm)
0381-1720	HC 1172C	Bottom Rear	1	180°	72" (182.9 cm)

WARNING: Use add-on flashback arrestors

For best performance, use the following recommended equipment:

Part No.	Model	Type	Tip Sizes Recommended for use with each model
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Flashback Arrestors

Oxygen: (Select one of the following)

0657-0010	*FB-O	Torch Mount	Up to size: 8
0657-0014	FB-OR	Regulator Mount	Up to size: 8
0657-0076	*FBHC-O	Torch Mount/High Flow	Size: 10 and larger
0657-0078	FBHC-OR	Regulator Mount/High Flow	Size: 10 and larger

Fuel: (Select one of the following)

0657-0011	*FB-F	Torch Mount	—
0657-0015	FB-FR	Regulator Mount	—

*Torch mount models also protect the hose

Hoses (Contact local distributor for hose information)

Oxygen: 3/8" (9.53 mm) I.D. with "B" hose (9/16"-18 LH) connections. Use T-grade hose

Fuel: 3/8" (9.53 mm) I.D. with "B" hose (9/16"-18 LH) connections. Use T-grade hose

Regulators

Oxygen: ELC4, ESS4-125-540R, ESS7-125-540, SR 450D-540, SR 700D-540 cylinder, SR 700E-540 cylinder or L 700D/E-500/750 line supply, LC 350DR 540 liquid cylinder

Fuel: ESS4-125-510LP, SR 461D-510 cylinder, SR 711B/C/D-510, L 711B/C/D-500/750 line supply

Victor Bulldog with Seat Designed for Harris® Style Tip

Part No.	Model No.	Lever Position	Tip Series	Head Angle	Overall Length
0381-1698	HC 1100C H1	Bottom Rear	1	90°	21" (53.3 mm)
0381-1721	HC 1131C H1	Bottom Rear	1	75°	36" (91.4 cm)
0381-1722	HC 1151C H1	Bottom Rear	1	75°	48" (121.9 cm)
0381-1745	HC 1171C H1	Bottom Rear	1	75°	72" (182.9 cm)

Harris® is a registered trademark of the Lincoln Electric Company

HC 1100C Cutting Tips

For Use With Natural Gas, Propane Cutting

Part No.	Model No.	Metal Thickness		Cutting Oxygen Pressure		Preheat Oxygen	Fuel Pressure	
		in	mm	PSIG	SCFH	SCFH	PSIG	SCFH
Tips for coarse splined scrap cutting – using natural gas								
0330-0411	8-CSN	12	304.8	60/70	750/850	50/265	10/14	25/110
Tips for mill & foundry scrap cutting under severe conditions, use 0309-0025 tip nut								
0330-0504	6-HDN	8	203.2	55/65	450/550	44/240	8/12	22/110
0330-0505	8-DDN	12	304.8	60/70	750/850	50/265	10/14	25/120
0330-0506	10-HDN	14	355.6	55/65	1000/1200	50/265	10/16	25/120
0330-0507	12-HDN	16	406.4	45/55	1150/1350	60/290	12/18	30/130
0330-0508	14-HDN	18	457.2	45/55	1300/1500	60/290	12/18	30/130
Heavy preheat tips for scrap, bevel & other								
0333-0328	6-HPN	8	203.2	55/65	450/500	44/240	8/12	22/110
0333-0330	8-HPN	10	254.0	60/70	750/850	50/265	10/14	25/120
0333-0331	10-HPN	12	304.8	45/55	1000/1200	50/265	10/16	25/120
0333-0332	12-HPN	14	355.6	45/55	1150/1350	60/290	12/18	30/130
Heavy wall shell for scrap, bevel & other severe conditions								
0333-0666	6-HWN	8	203.2	55/65	450/500	44/240	8/12	22/110
0333-0668	8-HWN	10	254.0	60/70	750/850	50/265	10/14	25/120
0333-0670	10-HWN	12	304.8	45/55	1000/1200	50/265	10/16	25/120
0333-0671	12-HWN	14	355.6	45/55	1150/1350	60/290	12/18	30/130

Preheat oxygen pressure is controlled by cutting oxygen pressure when using cutting tips

Victor CutSkill Bulldog Tips For Use With LP Propane And Natural Gas

Part No.	Model No.	Metal Thickness		Cutting Oxygen Pressure		Preheat Oxygen	Fuel Pressure	
		in	mm	PSIG	SCFH	SCFH	PSIG	SCFH
Victor Style Tips								
6700C0710	VBN-3	2.5	63.5	40/50	150/200	23/140	6/12	12/65
6700C0711	VBN-4	3	76.2	40/50	210/250	23/140	6/12	12/65
6700C0712	VBN-5	5	127.0	45/55	300/360	23/140	6/12	12/65
6700C0713	VBN-6	8	203.2	55/65	450/500	23/140	6/12	12/65
6700C0715	VBN-8	10	254.0	60/70	750/850	44/240	10/18	22/110
6700C0716	VBN-10	12	304.8	45/55	1000/1200	44/240	10/18	22/110
6700C0717	VBN-12	14	355.6	45/55	1150/1350	44/240	10/18	22/110
Harris® Style Tips								
6700C0723	HBN-3	3	76.2	40/50	210/250	23/140	6/12	12/65
6700C0724	HBN-4	5	127.0	45/55	300/360	23/140	6/12	12/65
6700C0725	HBN-5	6.5	165.1	55/65	370/440	23/140	6/12	12/65
6700C0726	HBN-6	8	203.2	60/70	450/500	23/140	6/12	12/65

Preheat oxygen pressure is controlled by cutting oxygen pressure when using cutting tips

Harris® is a registered trademark of the Lincoln Electric Company

Bulldog tips by Victor CutSkill offer a cost effective alternative for efficient scrap cutting

- For scrap cutting
- Heavy wall - two piece design
- Resists slag build-up
- Available in Victor and Harris® styles

Torches

STRAIGHT CUTTING TORCHES

ST 2600FC Series

Heavy Duty Straight Cutting Torch
(for use with all fuel gases)



- For use with any fuel gas
- Cutting capacity 1/8" (3.2 mm) to 8" (203.2 mm)
- Includes built-in patented flashback arrestors and reverse flow check valves for added safety

Part No.	Model No.	Lever Position	Tip Series	Head Angle	Length
0381-1486	SST 2600FC	Top Rear	1	90°	17" (43.2 cm)
0381-1487	SST 2601FC	Top Rear	1	75°	17" (43.2 cm)
0381-1480	ST 2600FC	Top Rear	1	90°	21" (53.3 cm)
0381-1482	ST 2601FC	Top Rear	1	75°	21" (53.3 cm)
0381-1483	ST 2601FCL*	Top Rear	1	75°	21" (53.3 cm)
0381-1484	ST 2602FC	Top Rear	1	180°	21" (53.3 cm)
0381-1490	ST 2610FC	Top Rear	1	90°	27" (68.6 cm)
0381-1491	ST 2611FC	Top Rear	1	75°	27" (68.6 cm)
0381-1492	ST 2612FC	Top Rear	1	180°	27" (68.6 cm)
0381-1496	ST 2630FC	Top Rear	1	90°	36" (91.4 cm)
0381-1498	ST 2631FC	Top Rear	1	75°	36" (91.4 cm)
0381-1500	ST 2632FC	Top Rear	1	180°	36" (91.4 cm)
0381-1502	ST 2650FC	Top Rear	1	90°	48" (121.9 cm)
0381-1503	ST 2651FC	Top Rear	1	75°	48" (121.9 cm)
0381-1514	ST 2651FCL*	Top Rear	1	75°	48" (121.9 cm)
0381-1504	ST 2652FC	Top Rear	1	180°	48" (121.9 cm)
0381-1515	ST 2652FCL*	Top Rear	1	180°	48" (121.9 cm)
0381-1506	ST 2670FC	Top Rear	1	90°	72" (182.9 cm)
0381-1508	ST 2671FC	Top Rear	1	75°	72" (182.9 cm)
0381-1510	ST 2672FC	Top Rear	1	180°	72" (182.9 cm)

*Locking lever

ST 1000FC Series

Heavy Duty Straight Cutting Torch
(for use with all fuel gases)



- Cutting capacity 1/8" (3.2 mm) to 5" (127.0 mm)
- Includes built-in patented flashback arrestors and reverse flow check valves for added safety
- Built-in flashback arrestors no need for accessory flash arrestors
- Built-in reverse flow check valves no need for accessory check valves

Part No.	Model No.	Lever Position	Tip Series	Head Angle	Length
0381-1640	SST 1000FC	Bottom Rear	1	90°	17" (43.2 cm)
0381-1642	SST 1001FC	Bottom Rear	1	75°	17" (43.2 cm)
0381-1641	ST 1000FC	Bottom Rear	1	90°	21" (53.3 cm)
0381-1643	ST 1001FC	Bottom Rear	1	75°	21" (53.3 cm)
0381-1644	ST 1030FC	Bottom Rear	1	90°	36" (91.4 cm)
0381-1645	ST 1031FC	Bottom Rear	1	75°	36" (91.4 cm)
0381-1646	ST 1032FC	Bottom Rear	1	180°	36" (91.4 cm)
0381-1647	ST 1050FC	Bottom Rear	1	90°	48" (121.9 cm)
0381-1648	ST 1051FC	Bottom Rear	1	75°	48" (121.9 cm)
0381-1649	ST 1052FC	Bottom Rear	1	180°	48" (121.9 cm)

ST 900FC Series

Heavy Duty Straight Cutting Torch
(for use with all fuel gases)



- Cutting capacity: 1/8" (3.2 mm) to 5" (127.0 mm)
- Hose connections are 9/16"-18 unless noted
- Includes built-in patented flashback arrestors and reverse flow check valves for added safety
- Built-in flashback arrestors no need for accessory flash arrestors
- Built-in reverse flow check valves no need for accessory check valves

Part No.	Model No.	Lever Position	Tip Series	Head Angle	Length
0381-1620	SST 900FC	Top Rear	1	90°	17" (43.2 cm)
0381-1622	SST 901FC	Top Rear	1	75°	17" (43.2 cm)
0381-1621	ST 900FC	Top Rear	1	90°	21" (53.3 cm)
0381-1623	ST 901FC	Top Rear	1	75°	21" (53.3 cm)
0381-1628	ST 912FC	Top Rear	1	180°	27" (68.6 cm)
0381-1624	ST 930FC	Top Rear	1	90°	36" (91.4 cm)
0381-1625	ST 931FC	Top Rear	1	75°	36" (91.4 cm)
0381-1626	ST 932FC	Top Rear	1	180°	36" (91.4 cm)
0381-1629	ST 950FC	Top Rear	1	90°	48" (121.9 cm)
0381-1630	ST 951FC	Top Rear	1	75°	48" (121.9 cm)
0381-1631	ST 952FC	Top Rear	1	180°	48" (121.9 cm)
0381-1654	ST 972FC	Top Rear	1	180°	72" (182.9 cm)
0381-1685	ST 991FC	Top Rear	1	75°	96" (243.8 cm)

Safety Accessories

FLASHBACK ARRESTORS, CHECK VALVES

Flamebuster™ Flashback Arrestors

Flashback arrestors and reverse flow check valves provide additional protection against flashbacks. Victor recommends the use of these devices whenever possible. Victor add-on flashback arrestors contain both a reverse flow check valve and a flashback arrestor.

Due to the high flow requirements of Victor Heavy Industry torches, it is important to use flashback arrestors that have sufficient flow capacity.

IT IS IMPORTANT TO UNDERSTAND THE DIFFERENCE BETWEEN REVERSE FLOW CHECK VALVES AND FLASHBACK ARRESTORS.

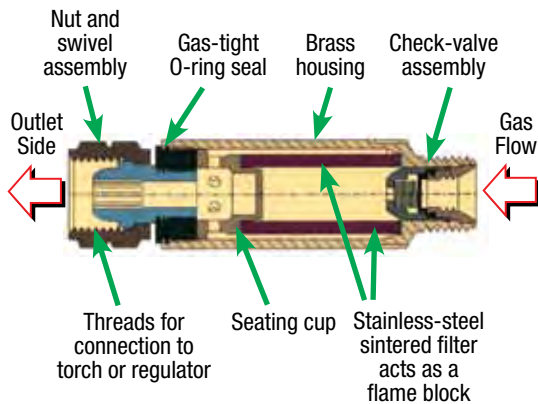
Reverse Flow Check Valves: Helps to prevent the reverse flow of gases from traveling past the check valve.

Flashback Arrestors: Prevents a flame from traveling past the flashback arrestor in the event of a flashback.

Note: The use of both regulator and torch mount flashback arrestors with heavy industry equipment requiring high gas volume is not recommended because it may cause excessive flow restriction. It is always better to place the safety devices at the rear of the torch than at the regulator in order to protect the hose

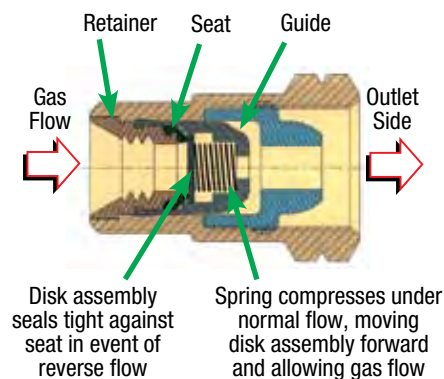
The Flashback Arrestor

Prevents flashback



The Check Valve

Prevents the reverse flow of gases



Safety Accessories

FLASHBACK ARRESTORS, CHECK VALVES

FBHC-0

High Flow
Torch Mount



FBHC-OR

High Flow
Regulator Mount



FBHC-OC

High Flow
Torch Mount



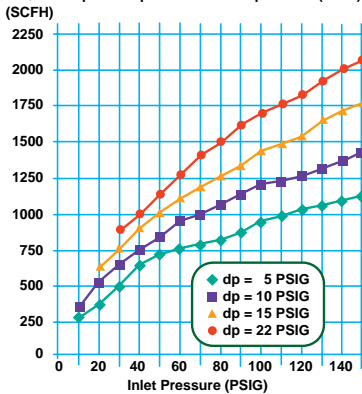
FBHC-ORC

High Flow
Regulator Mount



Flow Chart - FBHC Series Flashback Arrestor

Flow dp = inlet pressure - outlet pressure (PSIG)



Gas	Conversion Factor	Max. Pressure
Acetylene	1.05	15 PSI
Hydrogen	3.79	30 PSI
Mapp	0.82	22 PSI
Methane	1.34	50 PSI
Oxygen	0.95	143 PSI
Propane	0.80	50 PSI

Victor add-on flashback arrestors contain both a reverse flow check valve and a flashback arrestor

Flamebuster High Flow Ordering Information

Part No.	Model No.	Gas	Description	Connection
Oxygen – Torch Mount (Torch mount models also protect hose)				
0657-0076	FBHC-0	Oxygen	Torch Mount - High Flow	"B" 9/16"-18 RH (CGA 022)
0657-0077	FBHC-OC	Oxygen	Torch Mount - High Flow	"C" 7/8" - 14 RH (CGA 024)
Oxygen – Regulator Mount				
0657-0078	FBHC-OR	Oxygen	Regulator Mount - High Flow	"B" 9/16" - 18 RH (CGA 022)
0657-0079	FBHC-ORC	Oxygen	Regulator Mount - High Flow	"C" 7/8" - 14 RH (CGA 024)

Flow rates shown in chart are for air. To convert to other gases, multiply the air flow rate by the conversion factor listed. Nothing can take the place of proper equipment operation. Always read, understand and follow the instructions provided with each product.

FB-0

Torch Mount



FB-OR

Regulator Mount



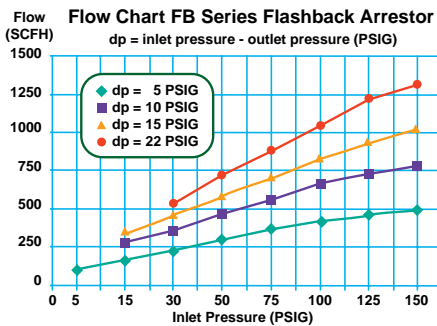
FB-F

Torch Mount



FB-FR

Regulator Mount



Gas	Conversion Factor	Max. Pressure
Acetylene	1.05	15 PSI
Hydrogen	3.79	30 PSI
Methane	1.34	50 PSI
Oxygen	0.95	150 PSI
Propane	0.80	50 PSI

Victor add-on flashback arrestors contain both a reverse flow check valve and a flashback arrester

Flamebuster Ordering Information

Part No.	Model No.	Gas	Description	Connection
Oxygen - Torch Mount				
0657-0010	FB-0	Oxygen	Torch Mount	"B" 9/16"-18 RH (CGA 022)
Oxygen - Regulator Mount				
0657-0014	FB-OR	Oxygen	Regulator Mount	"B" 9/16"-18 RH (CGA 022)
Fuel - Torch Mount				
0657-0011	FB-F	Fuel	Torch Mount	"B" 9/16"-18 LH (CGA 023)
Fuel - Regulator Mount				
0657-0015	FB-FR	Fuel	Regulator Mount	"B" 9/16"-18 LH (CGA 023)
Pair Packs				
0656-0001	FB-1	Oxy/Fuel	Torch Mount	"B" 9/16"-18 RH/LH (CGA 022 & 023)
0656-0004	FBR-1	Oxy/Fuel	Regulator	"B" 9/16"-18 RH/LH (CGA 022 & 023)

Flow rates shown in chart are for air. To convert to other gases, multiply the air flow rate by the conversion factor listed. Nothing can take the place of proper equipment operation. Always read, understand and follow the instructions provided with each product.

Safety Accessories

FLASHBACK ARRESTORS, CHECK VALVES

FlameBuster™ Plus Flashback Arrestor with Kwik-Connect Coupling

Designed to prevent flashback from torch to hose (Not for regulators)



Part No.	Model	Description
0656-0002	FBP-1	FlameBuster Plus Torch - Pair Pack
0657-0002	FBP-0	FlameBuster Plus Torch
0657-0003	FBP-F	FlameBuster Plus Torch

FlameBuster Plus Flashback Arrestor with Kwik-Connect Coupling Components FBP-1

Part No.	Gas	Description
0657-0031	Oxygen	Male End
0657-0032	Fuel Gas	Male End

Reverse Flow Check Valves for Torches & Regulators



Part No.	Description
Torch Models	
0690-0011	CTO & CTF Torch - Check Valves Pair Pack (Oxygen & Fuel)
0690-0032	CTO Torch - Check Valve (Oxygen)
0690-0033	CTF Torch - Check Valve (Fuel)
Regulator Models	
0690-0012	CRO & CRF Regulator - Check Valves Pair Pack (Oxygen & Fuel)
0690-0034	CRO Regulator - Check Valve (Oxygen)
0690-0035	CRF Regulator - Check Valve (Fuel)

Vanguard™ Flashback Arrestor Replacement Cartridge



Part No.	Description
Torch/Hose Connections	
0657-0036	Torch and Torch Handle Replacement Cartridge (315FC, 100FC, J 100FC) (CST 800FC) (Both Gases)
0657-0068	Torch and Torch Handle Replacement Cartridge (H 315FC) (Oxygen)
0657-0069	Torch and Torch Handle Replacement Cartridge (H 315FC) (Fuel Gas)

Flashback arrestor replacement cartridges include an "O" ring but does not include a replacement reverse flow check valve. Part No. 0690-0027 - 9/16" (pair)

Built-in Flash Arrestor Retro-Fit Kit

The retro-fit kit allows replacement of built-in flash arrestors for cutting torches without the use of Loctite® or heat

Part No.	Description
Torch/Hose Connections	
0656-0046	Includes oxygen and fuel cartridges, retainer plate and screws, hex key, and instructions

Repair of oxy/fuel equipment, including flashback arrestor and check valve replacement, should be done by a qualified technician.

Kwik-Connect™ Torch/Hose Connections



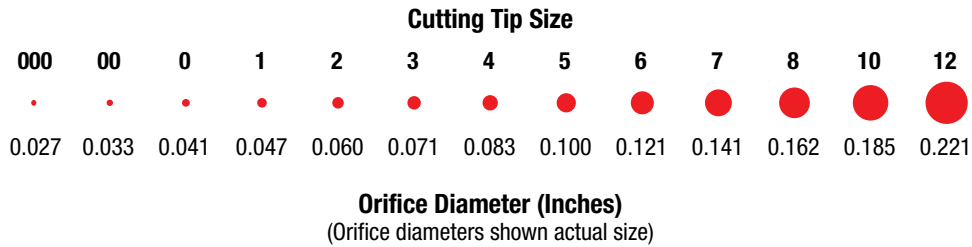
Part No.	Description
Torch/Hose Connections	
0656-0000	KC-1 Kwik Connect Pair Pack (Oxygen and Fuel)
0312-0090	KCO Kwik Connect (Oxygen)
0312-0091	KCF Kwik Connect (Fuel)

Cutting Tips

REFERENCE GUIDE

Cutting Orifice Reference Chart

For all standard cutting tips except Series MTH high speed models



Tip Nut (0309-0018)

For Series 1 cutting tips

(0309-0003)

For Series 3 cutting tips



Code for Fuel Gases

A	Acetylene
LP	Propane/Natural Gas
P	Propylene

Material Thickness – Tip Size

Material Thickness		Tip Size
Inches	mm	
1/8"	3.2 mm	000
1/4"	6.4 mm	00
3/8" – 1/2"	9.5 - 12.7 mm	0
3/4"	19.1 mm	1
1" – 1 1/2"	25.4 - 38.1 mm	2
2" – 2 1/2"	50.8 - 63.5 mm	3
3"	76.2 mm	4
4" – 5"	102 - 127 mm	5
6" – 8"	152 - 203 mm	6*
10"	254 mm	7*
12"	305 mm	8*

*For best results, use "High Flow Handles" and 3/8" hose

Gouging Depth Tip Chart

Approximate Gouge Depth				
Depth of gouge will vary due to angle of tip and cutting pressure.				
Type	Tip Size	Depth of Gouge	O ₂ PSI	C ₂ H ₂ PSI
118	0	1/8"-1/4"	30-45	5-7
	2	1/4"-3/8"	30-45	5-7
	8	1/4"-1/2"	30-55	6-8
218	4	1/4"-3/4"	30-65	8-10
	6	3/8"-1"	30-65	10-12

Preheat Chart for Propylene and LP Tips

Torch Series	Preheat Oxygen (PSIG)	Preheat Fuel (PSIG)
MT 200	--	8 oz. and up
MT 300	30/35	8 oz. and up
ST 2600FC	--	1 PSIG and up
ST 900FC	--	5 PSIG and up
ST 1000FC	--	5 PSIG and up








Cutting Tips

REFERENCE GUIDE / ACETYLENE

Victor Professional Series 1 – Acetylene Cutting Tips

Acetylene

Series 1 tip style, fuel gas usage and Victor equipment compatibility shown below

Type		Fuel Gas	Application
101		A	<ul style="list-style-type: none"> • General purpose • Hand and machine torch cutting
101 30°		A	<ul style="list-style-type: none"> • General purpose • Hand and machine torch cutting 30°, with torch perpendicular
101-L		A	<ul style="list-style-type: none"> • General purpose, extra length tips
108		A	<ul style="list-style-type: none"> • Boiler tube removal • Tips are short to insert head and tip inside tube
112		A	<ul style="list-style-type: none"> • Cutting close to bulk heads • Hand cutting of rivet heads
118 Tip (Round)		A	<ul style="list-style-type: none"> • Deseaming, scarfing, gouging, weld preparation, removing defective welds, washing rivets
118 Tip (Sides Cutaway)		A	<ul style="list-style-type: none"> • Deseaming, scarfing, gouging, weld preparation, removing defective welds, washing rivets

Handle	Cutting Attachment	Fuel Gas
Cutting Torches		
315FC, H 315FC	CA 2460-90°	All
315FC, H 315FC	CA 2461-75°	All
315FC, H 315FC	CA 2462-180°	All
Straight Torches		
ST 2600FC	–	All
ST 1000FC	–	All
ST 900FC	–	All
*HC 1200C	–	All
Machine Torches		
MT 200	–	A, LP
MT 300	–	A, LP

Material Thickness – Tip Size

Material Thickness	Tip Size
1/8"	000
1/4"	00
3/8" – 1/2"	0
3/4"	1
1" – 1 1/2"	2
2" – 2 1/2"	3
3"	4
4" – 5"	5
6" – 8"	6*
10"	7*
12"	8*

*For best results, use "High Flow Handles" and 3/8" hose

Tip packaging is color coded with reference to fuel gas usage. Other special application tips available. Contact Technical Services at 1-800-426-1888

U.S. Customer Care: 1-800-426-1888 / FAX 1-800-535-0557
Canada Customer Care: 1-905-827-4515 / FAX 1-800-588-1714

Victor Professional Series 1 – Acetylene Cutting Tips

Victor Series 1 Type 101



- General purpose
- Hand and machine torch cutting

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	0330-0003	20 / 25	20 / 25	3 / 5	3 / 5	3 / 5	3 / 5	28 / 32	.04
1/4"	00	0330-0004	20 / 25	30 / 35	3 / 5	4 / 6	3 / 5	4 / 6	27 / 30	.05
1/4"	00	0387-0133#	20 / 25	30 / 35	3 / 5	4 / 6	3 / 5	4 / 6	27 / 30	.05
3/8"	0	0330-0012	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
3/8"	0	0387-0134#	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	0330-0012	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
1/2"	0	0387-0134#	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
3/4"	1	0330-0005	30 / 35	80 / 85	4 / 7	9 / 14	3 / 5	8 / 13	17 / 21	.07
3/4"	1	0387-0135#	30 / 35	80 / 85	4 / 7	9 / 14	3 / 5	8 / 13	17 / 21	.07
1"	2	0330-0006	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
1"	2	0387-0136#	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
1 1/2"	2	0330-0006	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
1 1/2"	2	0387-0136#	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
2"	3	0330-0002	40 / 45	210 / 225	5 / 14	15 / 24	4 / 9	14 / 22	12 / 15	.11
2 1/2"	3	0330-0002	45 / 50	225 / 240	5 / 16	18 / 29	4 / 10	16 / 26	10 / 13	.11
3"	4	0330-0007	40 / 50	270 / 320	6 / 17	20 / 33	5 / 10	18 / 30	9 / 12	.12
4"	5	0330-0008	45 / 55	390 / 425	7 / 18	24 / 37	5 / 12	22 / 34	8 / 11	.15
5"	5	0330-0008	50 / 55	425 / 450	7 / 20	29 / 41	5 / 13	26 / 38	7 / 9	.15
6"	6**	0330-0009	45 / 40	500 / 600	10 / 22	33 / 48	7 / 13	30 / 44	6 / 8	.18
8"	6**	0330-0009	45 / 55	500 / 600	10 / 25	37 / 55	7 / 14	34 / 50	5 / 6	.19
10"	7**	0330-0013	45 / 55	700 / 850	15 / 30	44 / 62	10 / 15	40 / 56	4 / 5	.34
12"	8**	0330-0014	45 / 55	900 / 1000	20 / 35	53 / 68	10 / 15	48 / 62	3 / 5	.41

Victor Series 1 Type 101 30°



- General purpose
- Hand and machine torch cutting 30°, with torch perpendicular

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
3/8"	0	0330-0198	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	0330-0198	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
3/4"	1	0330-0199	30 / 35	80 / 85	4 / 7	9 / 14	3 / 5	8 / 13	17 / 21	.07
1"	2	0330-0284	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09

Victor Series 1 Type 101-L



- General purpose
- Extra length tips

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
3"	4	0330-0531	40 / 50	270 / 320	6 / 17	20 / 33	5 / 10	18 / 30	9 / 12	.12
6"	6**	0330-0535	45 / 40	500 / 600	10 / 22	33 / 48	7 / 13	30 / 44	6 / 8	.18

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Clam Shell Packaging

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

Cutting Tips

REFERENCE GUIDE / ACETYLENE

Victor Professional Series 1 – Acetylene Cutting Tips

Victor Series 1 Type 108



- Boiler tube removal
- Tip is short to insert head and tip inside tube

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
3/8	0	0330-0058	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	0330-0058	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
3/4"	1	0330-0059	30 / 35	80 / 85	4 / 7	9 / 14	3 / 5	8 / 13	17 / 21	.07
1"	2	0330-0063	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	0330-0063	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
2"	3	0330-0064	40 / 45	210 / 225	5 / 14	15 / 24	4 / 9	14 / 22	12 / 15	.11
2 1/2"	3	0330-0064	45 / 50	225 / 240	5 / 16	18 / 29	4 / 10	16 / 26	10 / 13	.11
3"	4	0330-0065	40 / 50	270 / 320	6 / 17	20 / 33	5 / 10	18 / 30	9 / 12	.12

Victor Series 1 Type 112



- Cutting close to bulk heads
- Hand cutting of rivet heads

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
1"	2	0330-0086	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	0330-0086	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09

Victor Series 1 Type 118 (Round)



- Deseaming, scarfing, gouging
- Rivet washing
- Weld preparation

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
3/8"	0	0330-0109	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	0330-0109	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
1"	2	0330-0113	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	0330-0113	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
3"	4	0330-0114	40 / 50	270 / 320	6 / 17	20 / 33	5 / 10	18 / 30	9 / 12	.12

Victor Series 1 Type 118 (Sides Cutaway)



- Deseaming, scarfing, gouging
- Rivet washing
- Weld preparation

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
6"	6**	0330-0115	45 / 40	500 / 600	10 / 22	33 / 48	7 / 13	30 / 44	6 / 8	.18
8"	6**	0330-0115	45 / 55	500 / 600	10 / 25	37 / 55	7 / 14	34 / 50	5 / 6	.19
12"	8**	0330-0116	45 / 55	900 / 1000	20 / 35	53 / 68	10 / 15	48 / 62	3 / 5	.41

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.















Clam Shell Packaging

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

Victor Professional Series 1 – Propylene Cutting Tips

Propylene

Series 1 tip style, fuel gas usage and Victor equipment compatibility shown below

Type		Fuel Gas	Application
GPP	 	P	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
HPP	 	P	<ul style="list-style-type: none"> Heavy preheat for scrap, bevel and other heavy preheat requirements
MTHP	 	P	<ul style="list-style-type: none"> High speed machine cutting through 10" (252 mm)
303MP	 	P	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
BTMP	 	P	<ul style="list-style-type: none"> High performance Bevel cutting
GTB	 	P	<ul style="list-style-type: none"> Gouging tip (bent) Removing welds
318MP	 	P	<ul style="list-style-type: none"> General purpose Gouging and rivet washing

Handle	Cutting Attachment	Fuel Gas
Cutting Torches		
315FC, H 315FC	CA 2460-90°	All
315FC, H 315FC	CA 2461-75°	All
315FC, H 315FC	CA 2462-180°	All
Straight Torches		
ST 2600FC	–	All
ST 1000FC	–	All
ST 900FC	–	All
*HC 1200C	–	All
*HC 1100C	–	Non-A
Machine Torches		
MT 200	–	A, LP
MT 300	–	A, LP

Material Thickness – Tip Size

Material Thickness	Tip Size
1/8"	000
1/4"	00
3/8" – 1/2"	0
3/4"	1
1" – 1 1/2"	2
2" – 2 1/2"	3
3"	4
4" – 5"	5
6" – 8"	6*
10"	7*
12"	8*

*For best results, use "High Flow Handles" and 3/8" hose

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Clam Shell Packaging

Tip packaging is color coded with reference to fuel gas usage. Other special application tips available. Contact Technical Services at 1-800-426-1888

Cutting Tips

REFERENCE GUIDE / PROPYLENE

Victor Professional Series 1 – Propylene Cutting Tips

Victor Series 1 Type GPP



- General purpose
- Hand and machine torch cutting

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen ***(PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen *(PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel ****(SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	0333-0260	20/25	12/14		23/108	3/5	5/6	24/28	0.04
1/4"	00	0333-0261	20/25	22/.26		23/108	3/5	5/7	21/25	0.04
3/8"	0	0333-0262	25/30	45/55		23/108	3/5	8/10	20/24	0.06
3/8"	0	0387-0154#	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	0333-0262	30/35	50/55		23/108	3/5	8/10	18/22	0.06
1/2"	0	0387-0154#	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	0333-0263	30/35	70/80		23/108	4/6	10/12	15/20	0.08
3/4"	1	0387-0155#	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	0333-0264	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1"	2	0387-0156#	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	0333-0264	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	0333-0265	40/50	150/175		23/108	5/9	14/18	10/14	0.10
2 1/2"	3	0333-0265	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	0333-0266	45/50	210/250		23/108	8/12	16/20	8/11	0.12
4"	5	0333-0267	45/55	300/360		23/108	8/12	20/30	7/10	0.14
5"	5	0333-0267	50/55	330/360		23/108	8/12	20/30	6/9	0.14
6"	6**	0333-0268	45/55	400/500		23/153	10/15	25/35	5/7	0.17
8"	6**	0333-0268	55/65	450/500		23/153	10/15	25/35	4/6	0.18
10"	7	0333-0269	55/65	450/500		23/153	8/12	25/35	3/5	0.34
12"	8	0333-0270	60/70	450/500		23/153	10/14	25/35	3/4	0.14

REFERENCE
PREHEAT CHART
ON PAGE 61

Victor Series 1 Type HPP



- Heavy preheat
- Scrap and bevel

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen ***(PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen *(PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel ****(SCFH)	Speed I.P.M.	Kerf Width
1/2"	0	0333-0282	30/35	70/80		44/240	3/5	22/110	18/22	0.06
3/4"	1	0333-0283	30/35	70/80		44/240	3/6	22/110	15/20	0.08
1"	2	0333-0284	35/40	115/125		44/240	3/6	22/110	14/18	0.09
1 1/2"	2	0333-0284	40/45	125/135		44/240	4/8	22/110	12/16	0.09
2"	3	0333-0285	40/45	150/175		44/240	4/8	22/110	10/14	0.10
2 1/2"	3	0333-0285	45/50	175/200		44/240	5/9	22/110	9/12	0.10
3"	4	0333-0286	40/50	210/250		44/240	6/9	22/110	8/11	0.12
4"	5	0333-0287	45/55	300/360		44/240	6/9	22/110	7/10	0.14
5"	5	0333-0287	50/55	330/360		44/240	6/10	22/110	6/9	0.14
6"	6**	0333-0288	45/55	400/500		44/240	6/10	22/110	5/7	0.17
8"	6**	0333-0288	55/65	450/500		44/240	8/12	22/110	4/6	0.18
12"	8**	0333-0290	60/70	750/850		50/265	10/14	25/120	3/4	0.41
15"	10**	0333-0291	45/55	1000/1200		50/265	10/16	25/120	2/4	--
18"	12**	0333-0292	45/55	1150/1350		60/290	10/16	30/130	2/3	--

REFERENCE
PREHEAT CHART
ON PAGE 61

Victor Series 1 Type BTMP



- High performance
- Bevel cutting

Length of Bevel (Inches)	Size	Part Number	Cutting Oxygen ***(PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen *(PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel ****(SCFH)	Speed I.P.M.	Kerf Width
1"	4	0333-0209	60/75	390/450	30/35	23/140	8-10	12/65	10/18	-
1 1/2"	4	0333-0209	60/75	390/450	30/35	23/140	8-10	12/65	8/16	-
2"	4	0333-0209	60/75	390/450	30/35	23/140	8-10	12/65	6/14	-
2 1/2"	4	0333-0209	60/75	390/450	30/35	23/140	8-10	12/65	5/12	-
3"	5	0333-0210	60/75	670/720	30/35	23/140	8-12	12/65	6/11	-
3 1/2"	5	0333-0210	60/75	670/720	30/35	23/140	8-12	12/65	12/65	-
4"	5	0333-0210	60/75	670/720	30/35	23/140	8-12	12/65	4/9	-
4 1/2"	5	0333-0210	60/75	670/720	30/35	23/140	8-12	12/65	4/8	-
5"	6	0333-0211	65/85	-	30/35	23/140	8-15	12/65	3/8	-
5 1/2"	6	0333-0211	65/85	-	30/35	23/140	8-15	12/65	3/7	-
6"	6	0333-0211	65/85	-	30/35	23/140	8-15	12/65	3/6	-

Data compiled using a 3 Hose Torch

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

Victor Professional Series 1 – Propylene Cutting Tips

Victor Series 1 Type MTHP



- High speed machines cutting up to 8" (203.2 mm)

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen *(SCFH)	Preheat Oxygen *(PSIG)	Preheat Oxygen *(SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4"	00	0333-0352	85/95	68/75	30/35	23/140	8 oz +	12/65	23/30	0.05
3/8"	00	0333-0352	85/95	68/75	30/35	23/140	8 oz +	12/65	22/29	0.05
1/2"	0	0333-0353	85/95	110/120	30/35	23/140	8 oz +	12/65	20/28	0.06
3/4"	0	0333-0353	85/95	110/120	30/35	23/140	8 oz +	12/65	18/26	0.06
1"	1	0333-0354	85/95	145/160	30/35	23/140	8 oz +	12/65	17/24	0.07
1 1/4"	1	0333-0354	85/95	145/160	30/35	23/140	8 oz +	12/65	16/20	0.07
1 1/2"	1	0333-0354	85/95	145/160	30/35	23/140	8 oz +	12/65	12/16	0.07
2"	2	0333-0355	85/95	230/250	30/35	23/140	8 oz +	12/65	11/15	0.09
2 1/2"	2	0333-0355	85/95	230/250	30/35	23/140	8 oz +	12/65	10/13	0.09
3"	2	0333-0355	85/95	230/250	30/35	23/140	8 oz +	12/65	9/11	0.09
4"	3	0333-0356	85/95	285/320	30/35	23/140	8 oz +	12/65	7/10	0.11
5"	3	0333-0356	85/95	285/320	30/35	23/140	8 oz +	12/65	6/8	0.11
6"	3	0333-0356	85/95	285/320	30/35	23/140	8 oz +	12/65	5/7	0.11
7"	4	0333-0357	85/95	390/450	30/35	23/140	8 oz +	12/65	5/6	0.14
8"	4	0333-0357	85/95	390/450	30/35	23/140	8 oz +	12/65	4/6	0.14
9"	5	0333-0358	85/95	670/720	30/35	23/140	8 oz +	12/65	4/5	0.18
10"	5	0333-0358	85/95	670/720	30/35	23/140	8 oz +	12/65	3/5	0.18

Victor Series 1 Type 303MP



- General purpose
- Hand and machine torch cutting

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen *(SCFH)	Preheat Oxygen *(PSIG)	Preheat Oxygen *(SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4"	00	0330-0187	20/25	22/26		23/108	3/5	5/7	21/25	0.04
3/8"	0	0330-0188	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	0330-0188	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	0330-0189	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	0330-0193	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	0330-0193	40/45	125/135	REFERENCE	23/108	5/9	12/15	12/16	0.09
2"	3	0330-0194	40/45	150/175	PREHEAT CHART	23/108	5/9	14/18	10/14	0.10
2 1/2"	3	0330-0194	45/50	175/200	ON PAGE 61	23/108	6/10	14/18	9/12	0.10
3"	4	0330-0195	45/50	210/250		23/108	8/12	16/20	8/11	0.12
4"	5	0330-0196	45/55	300/360		23/108	8/12	20/30	7/10	0.14
5"	5	0330-0196	50/55	330/360		23/108	8/12	20/30	6/9	0.14
6"	6**	0330-0197	45/55	400/500		23/153	10/15	25/35	5/7	0.17
8"	6**	0330-0197	55/65	450/500		23/153	10/15	25/35	4/6	0.18

Victor Series 1 Type GTB



- Gouging tip (bent)
- Removing welds

Gouging Width (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen *(SCFH)	Preheat Oxygen *** (PSIG)	Preheat Oxygen *(SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4 - 3/4"	3	0333-0414	30/65	175/200	30/65	23/108	8/10	14/18	--	--
1/4 - 3/4"	4	0333-0415	30/65	210/250	30/65	23/108	8/10	16/20	--	--

Victor Series 1 Type 318MP



- General purpose
- Gouging and rivet washing

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen *(SCFH)	Preheat Oxygen *(PSIG)	Preheat Oxygen *(SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
2"	3	0330-0333	40/45	150/175		23/108	5/9	14/18	10/14	0.10
2 1/2"	3	0330-0333	45/50	175/200	REFERENCE	23/108	6/10	14/18	9/12	0.10
3"	4	0330-0335	45/50	210/250	PREHEAT CHART	23/108	8/12	16/20	8/11	0.12
6"	6**	0330-0336	45/55	400/500	ON PAGE 61	23/153	10/15	25/35	5/7	0.17
8"	6**	0330-0336	55/65	450/500		23/153	10/15	25/35	4/6	0.18

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.
 # Clam Shell Packaging












Cutting Tips

REFERENCE GUIDE / LP (PROPANE, NATURAL GAS)

Victor Professional Series 1 – LP Cutting Tips

LP (Propane/Natural Gas)

Series 1 tip style, fuel gas usage and Victor equipment compatibility shown below

Type		Fuel Gas	Application
200		LP	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
207		LP	<ul style="list-style-type: none"> Used for "blowing" rivets Popular with various railroad applications
218		LP	<ul style="list-style-type: none"> Deseaming, scarfing, gouging Weld preparation, removing defective welds, washing rivets
244		LP	<ul style="list-style-type: none"> Cutting close to bulk heads Rivet cutting
MCN		LP	<ul style="list-style-type: none"> For application requiring extra heavy pre-heat and wide kerf
GPN		LP	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
MTHN		LP	<ul style="list-style-type: none"> High speed machine cutting through 10" (252 mm)
HPN		LP	<ul style="list-style-type: none"> Heavy preheat for scrap, bevel and other heavy preheat requirements
BTN		LP	<ul style="list-style-type: none"> Heavy performance bevel cutting for use with mild steel HSLA, T1 and HV-80
CSN		LP	<ul style="list-style-type: none"> A coarse splined scrap cutting tip for use with natural gas
GTB		LP	<ul style="list-style-type: none"> Gouging tip (bent) Removal of welds

Handle	Cutting Attachment	Fuel Gas
Cutting Torches		
315FC, H 315FC	CA 2460-90°	All
315FC, H 315FC	CA 2461-75°	All
315FC, H 315FC	CA 2462-180°	All
Straight Torches		
ST 2600FC	–	All
ST 1000FC	–	All
ST 900FC	–	All
*HC 1200C	–	All
*HC 1100C	–	Non-A
Machine Torches		
MT 200	–	A, LP
MT 300	–	A, LP

*Refer also to straight torch section.

Material Thickness – Tip Size

Material Thickness	Tip Size
1/8"	000
1/4"	00
3/8" – 1/2"	0
3/4"	1
1" – 1 1/2"	2
2" – 2 1/2"	3
3"	4
4" – 5"	5
6" – 8"	6*
10"	7*
12"	8*

*For best results, use "High Flow Handles" and 3/8" hose

Victor Professional Series 1 – LP Propane/Natural Gas Cutting Tips

Victor Series 1 Type 200



- General purpose
- Hand and machine torch cutting

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
3/4"	1	0330-0144	30/35	70/80	REFERENCE PREHEAT CHART ON PAGE 61	23/108	4/6	10/12	15/20	0.08
1"	2	0330-0145	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	0330-0145	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	0330-0146	40/50	150/175		23/108	5/9	14/18	10/14	0.10
2 1/2"	3	0330-0146	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	0330-0147	45/50	210/250		23/108	8/12	16/20	8/11	0.12
4"	5	0330-0148	45/55	300/360		23/108	8/12	20/30	7/10	0.14
5"	5	0330-0148	50/55	330/360		23/108	8/12	20/30	6/9	0.14
6"	6**	0330-0149	45/55	400/500		23/153	10/15	25/35	5/7	0.17
8"	6**	0330-0149	55/65	450/500		23/153	10/15	25/35	4/6	0.18

Victor Series 1 Type 207



- Used for "blowing" rivets
- Popular with various railroad applications

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
3"	4	0330-0166	40/50	210/250	REFERENCE PREHEAT CHART ON PAGE 61	44/240	6/9	22/110	8/11	0.12

Victor Series 1 Type 218



- Deseaming, scarfing, gouging
- Weld preparation, removing defective welds, washing rivets

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
3"	4	0330-0178	40/50	210/250	REFERENCE PREHEAT CHART ON PAGE 61	44/240	6/9	22/110	8/11	0.12
6"	6**	0330-0179	45/55	400/500		44/240	6/10	22/110	5/7	0.17
8"	6**	0330-0179	55/65	450/500		44/240	8/12	22/110	4/6	0.18
10"	8**	0330-0183	60/70	750/850		50/265	10/14	25/120	3/5	0.41
12"	10**	0330-0184	45/55	1000/1200		50/265	10/16	25/120	3/4	0.41

Victor Series 1 Type 244



- Cutting close to bulk heads
- Rivet cutting

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1"	2	0330-0344	35/40	115/125	REFERENCE PREHEAT CHART ON PAGE 61	44/240	3/6	22/110	14/18	0.09
1 1/2"	2	0330-0344	40/45	125/135	44/240	4/8	22/110	12/16	0.09	

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

Clam Shell Packaging

Cutting Tips

REFERENCE GUIDE / LP (PROPANE, NATURAL GAS)

Victor Professional Series 1 – LP Propane/Natural Gas Cutting Tips

Victor Series 1 Type MCN



- Extra heavy preheat
- Wide kerf

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
6"	6**	0330-0543	45/55	400/500	REFERENCE PREHEAT CHART ON PAGE 61	44/240	6/10	22/110	5/7	0.17
8"	6**	0330-0543	55/65	450/500		44/240	8/12	22/110	4/6	0.18

Victor Series 1 Type GPN



- General purpose
- Hand and machine cutting

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	0333-0300	20/25	12/14	REFERENCE PREHEAT CHART ON PAGE 61	23/108	3/5	5/6	24/28	0.04
1/4"	00	0333-0301	20/25	22/26		23/108	3/5	5/7	21/25	0.04
3/8"	0	0333-0302	25/30	45/55		23/108	3/5	8/10	20/24	0.06
3/8"	0	0387-0172#	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	0333-0302	30/35	50/55		23/108	3/5	8/10	18/22	0.06
1/2"	0	0387-0172#	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	0333-0303	30/35	70/80		23/108	4/6	10/12	15/20	0.08
3/4"	1	0387-0173#	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	0333-0304	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1"	2	0387-0174#	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	0333-0304	40/45	125/135		23/108	5/9	12/15	12/16	0.09
1 1/2"	2	0387-0174#	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	0333-0305	40/50	150/175	23/108	5/9	14/18	10/14	0.10	
2 1/2"	3	0333-0305	45/50	175/200	23/108	6/10	14/18	9/12	0.10	
3"	4	0333-0306	45/50	210/250	23/108	8/12	16/20	8/11	0.12	
4"	5	0333-0307	45/55	300/360	23/108	8/12	20/30	7/10	0.14	
5"	5	0333-0307	50/55	330/360	23/108	8/12	20/30	6/9	0.14	
6"	6**	0333-0308	45/55	400/500	23/153	10/15	25/35	5/7	0.17	
8"	6**	0333-0308	55/65	450/500	23/153	10/15	25/35	4/6	0.18	
10"	7**	0333-0309	55/65	450/500	23/153	8/12	25/35	3/5	0.34	
12"	8**	0333-0310	60/70	450/500	23/153	10/14	25/35	3/4	0.41	

Victor Series 1 Type MTHN



- High speed machine cutting through 10" (252 mm)

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4"	00	0333-0363	85/95	68/75	30/35	23/140	8 oz +	12/65	23/30	0.05
3/8"	00	0333-0363	85/95	68/75	30/35	23/140	8 oz +	12/65	22/29	0.05
1/2"	0	0333-0364	85/95	110/120	30/35	23/140	8 oz +	12/65	20/28	0.06
3/4"	0	0333-0364	85/95	110/120	30/35	23/140	8 oz +	12/65	18/26	0.06
1"	1	0333-0365	85/95	145/160	30/35	23/140	8 oz +	12/65	17/24	0.07
1 1/4"	1	0333-0365	85/95	145/160	30/35	23/140	8 oz +	12/65	16/20	0.07
1 1/2"	1	0333-0365	85/95	145/160	30/35	23/140	8 oz +	12/65	12/16	0.07
2"	2	0333-0366	85/95	230/250	30/35	23/140	8 oz +	12/65	11/15	0.09
2 1/2"	2	0333-0366	85/95	230/250	30/35	23/140	8 oz +	12/65	10/13	0.09
3"	2	0333-0366	85/95	230/250	30/35	23/140	8 oz +	12/65	9/11	0.09
4"	3	0333-0367	85/95	285/320	30/35	23/140	8 oz +	12/65	7/10	0.11
5"	3	0333-0367	85/95	285/320	30/35	23/140	8 oz +	12/65	6/8	0.11
6"	3	0333-0367	85/95	285/320	30/35	23/140	8 oz +	12/65	5/7	0.11
7"	4	0333-0368	85/95	390/450	30/35	23/140	8 oz +	12/65	5/6	0.14
8"	4	0333-0368	85/95	390/450	30/35	23/140	8 oz +	12/65	4/6	0.14
9"	5	0333-0369	85/95	670/720	30/35	23/140	8 oz +	12/65	4/5	0.18
10"	5	0333-0369	85/95	670/720	30/35	23/140	8 oz +	12/65	3/5	0.18
-	6**	0333-0370	85/95	-	30/35	23/140	8 oz +	12/65	-	-
-	8**	0333-0371	85/95	-	30/35	23/140	8 oz +	12/65	-	-

Victor Professional Series 1 – LP Propane/Natural Gas Cutting Tips

Victor Series 1 Type HPN



- Heavy preheat
- Scrap and bevel

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/2"	0	0333-0322	30/35	70/80	REFERENCE PREHEAT CHART ON PAGE 61	44/240	3/5	22/110	18/22	0.06
3/4"	1	0333-0323	30/35	70/80		44/240	3/6	22/110	15/20	0.08
1"	2	0333-0324	35/40	115/125		44/240	3/6	22/110	14/18	0.09
1 1/2"	2	0333-0324	40/45	125/135		44/240	4/8	22/110	12/16	0.09
2"	3	0333-0325	40/45	150/175		44/240	4/8	22/110	10/14	0.10
2 1/2"	3	0333-0325	45/50	175/200		44/240	5/9	22/110	9/12	0.10
3"	4	0333-0326	40/50	210/250		44/240	6/9	22/110	8/11	0.12
4"	5	0333-0327	45/55	300/360		44/240	6/9	22/110	7/10	0.14
5"	5	0333-0327	50/55	330/360		44/240	6/10	22/110	6/9	0.14
6"	6**	0333-0328	45/55	400/500		44/240	6/10	22/110	5/7	0.17
8"	6**	0333-0328	55/65	450/500		44/240	8/12	22/110	4/6	0.18
12"	8**	0333-0330	60/70	750/850		50/265	10/14	25/120	3/4	0.41
15"	10**	0333-0331	45/55	1000/1200		50/265	10/16	25/120	2/4	--
18"	12**	0333-0332	45/55	1150/1350		60/290	10/16	30/130	2/3	--

Victor Series 1 Type BTN



- Heavy performance bevel cutting for use with mild steel
- HSLA, T1 and HY-80

Length of Bevel (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1	4	0333-0206	60/75	390/450	30/35	23/140	8-10	12/65	10/18	-
1.5	4	0333-0206	60/75	390/450	30/35	23/140	8-10	12/65	8/16	-
2	4	0333-0206	60/75	390/450	30/35	23/140	8-10	12/65	6/14	-
2.5	4	0333-0206	60/75	390/450	30/35	23/140	8-10	12/65	5/12	-
3	5	0333-0207	60/75	670/720	30/35	23/140	8-12	12/65	6/11	-
3.5	5	0333-0207	60/75	670/720	30/35	23/140	8-12	12/65	12/65	-
4	5	0333-0207	60/75	670/720	30/35	23/140	8-12	12/65	4/9	-
4.5	5	0333-0207	60/75	670/720	30/35	23/140	8-12	12/65	4/8	-
5	6	0333-0208	65/85	-	30/35	23/140	8-15	12/65	3/8	-
5.5	6	0333-0208	65/85	-	30/35	23/140	8-15	12/65	3/7	-
6	6	0333-0208	65/85	-	30/35	23/140	8-15	12/65	3/6	-

Data compiled using a 3 Hose Torch

Victor Series 1 Type CSN



- A course splined scrap cutting tip
- Use with natural gas

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
12	8	0333-0411	60/70	750/850	REFERENCE PREHEAT CHART ON PAGE 61	50/265	10/14	25/120	3/4	0.41

Victor Series 1 Type GTB



- Gouging tip

Gouging Width (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4 - 3/4"	3	0333-0414	30/65	175/200	30/65	23/108	8/10	14/18	--	--
1/4 - 3/4"	4	0333-0415	30/65	210/250	30/65	23/108	8/10	16/20	--	--

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

Clam Shell Packaging

Cutting Tips

REFERENCE GUIDE / ACETYLENE, PROPYLENE AND LP GAS

Victor Professional Series 3 – Cutting Tips

Series 3 tip style, fuel gas usage and Victor equipment compatibility shown below.

Cutting Torches

Handle	Cutting Attachment	Fuel Gas
Heavy Duty		
315FC	CA 2460-90°	All
Medium Duty		
100FC	CA 1350-90°, CA 1351-75°, CA 1352-180°	All
Light Duty		
J-40	CA 1260-90°	All
Straight Torches		
CST 800FC	–	All

Material Thickness – Tip Size

Material Thickness	Tip Size
1/8"	000
1/4"	00
3/8" – 1/2"	0
3/4"	1
1" – 1 1/2"	2
2" – 2 1/2"	3
3"	4
4" – 5"	5

Victor Professional Series 3 – Acetylene Cutting Tips

Victor Series 3 Type 101



- General purpose
- Hand and machine torch cutting

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	0331-0002	20 / 25	20 / 25	3 / 5	3 / 5	3 / 5	3 / 5	28 / 32	.04
1/4"	00	0331-0009	20 / 25	30 / 35	3 / 5	4 / 6	3 / 5	4 / 6	27 / 30	.05
1/4"	00	0387-0144#	20 / 25	30 / 35	3 / 5	4 / 6	3 / 5	4 / 6	27 / 30	.05
3/8"	0	0331-0013	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
3/8"	0	0387-0145#	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	0331-0013	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
1/2"	0	0387-0145#	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
3/4"	1	0331-0014	30 / 35	80 / 85	4 / 7	9 / 14	3 / 5	8 / 13	17 / 21	.07
3/4"	1	0387-0146#	30 / 35	80 / 85	4 / 7	9 / 14	3 / 5	8 / 13	17 / 21	.07
1"	2	0331-0015	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1"	2	0387-0147#	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	0331-0015	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
1 1/2"	2	0387-0147#	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
2"	3	0331-0016	40 / 45	210 / 225	5 / 14	15 / 24	4 / 9	14 / 22	12 / 15	.11
2 1/2"	3	0331-0016	45 / 50	225 / 240	5 / 16	18 / 29	4 / 10	16 / 26	10 / 13	.11
3"	4	0331-0017	40 / 50	270 / 320	6 / 17	20 / 33	5 / 10	18 / 30	9 / 12	.12
4"	5	0331-0018	45 / 55	390 / 425	7 / 18	24 / 37	5 / 12	22 / 34	8 / 11	.15
5"	5	0331-0018	50 / 55	425 / 450	7 / 20	29 / 41	5 / 13	26 / 38	7 / 9	.15

Victor Series 3 Type 118 (Round)



- Deseaming, scarfing, gouging
- Rivet washing
- Weld preparation

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
1"	2	0331-0035	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	0331-0035	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Clam Shell Packaging

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

Victor Professional Series 3 – Propylene Cutting Tips

Victor Series 3 Type GPP



- General purpose
- Hand and machine torch cutting

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4"	00	0333-0389	20/25	22/26	REFERENCE PREHEAT CHART BELOW	23/108	3/5	5/7	21/25	0.04
3/8"	0	0333-0390	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	0333-0390	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	0333-0391	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	0333-0392	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	0333-0392	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	0333-0393	40/50	150/175		23/108	5/9	14/18	10/14	0.10
2 1/2"	3	0333-0393	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	0333-0394	45/50	210/250		23/108	8/12	16/20	8/11	0.12

Victor Professional Series 3 – LP Cutting Tips

Victor Series 3 Type GPN



- General purpose
- Hand and machine cutting

Metal Thickness (Inches)	Size	Part Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4"	00	0333-0398	20/25	22/26	REFERENCE PREHEAT CHART BELOW	23/108	3/5	5/7	21/25	0.04
1/4"	00	0387-0182#	20/25	22/26		23/108	3/5	5/7	21/25	0.04
3/8"	0	0333-0399	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	0333-0399	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	0333-0400	30/35	70/80		23/108	4/6	10/12	15/20	0.08
3/4"	1	0387-0184#	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	0333-0401	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1"	2	0387-0185#	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	0333-0402	40/45	125/135		23/108	5/9	12/15	12/16	0.09
1 1/2"	2	0387-0185#	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	0333-0402	40/50	150/175	23/108	5/9	14/18	10/14	0.10	
2 1/2"	3	0333-0402	45/50	175/200	23/108	6/10	14/18	9/12	0.10	
3"	4	0333-0403	45/50	210/250	23/108	8/12	16/20	8/11	0.12	
4"	5	0333-0404	45/55	300/360	23/108	8/12	20/30	7/10	0.14	
5"	5	0333-0404	50/55	330/360	23/108	8/12	20/30	6/9	0.14	

Preheat Chart for Propylene and LP Tips

Torch Series	Preheat Oxygen (PSIG)	Preheat Fuel (PSIG)
MT 200	--	8 oz. and up
MT 300	30/35	8 oz. and up
ST 2600FC	--	1 PSIG and up
ST 900FC	--	5 PSIG and up
ST 1000FC	--	5 PSIG and up

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Clam Shell Packaging

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

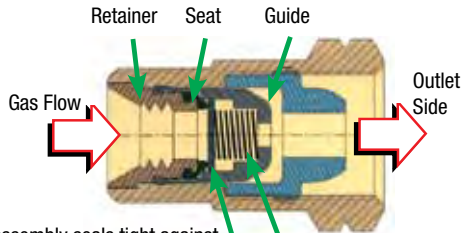
Machine Torches

CUTTING MACHINES / REFERENCE GUIDE

Victor Machine Torches

They are available in two and three hose versions. Two hose torches are available in 4.5" (114.3 mm), 10" (254.0 mm) and 18" (457.2 mm) models, and three hose torches are available in 10" (254.0 mm) and 18" (457.2 mm) models.

The Check Valve: Prevents the reverse flow of gases

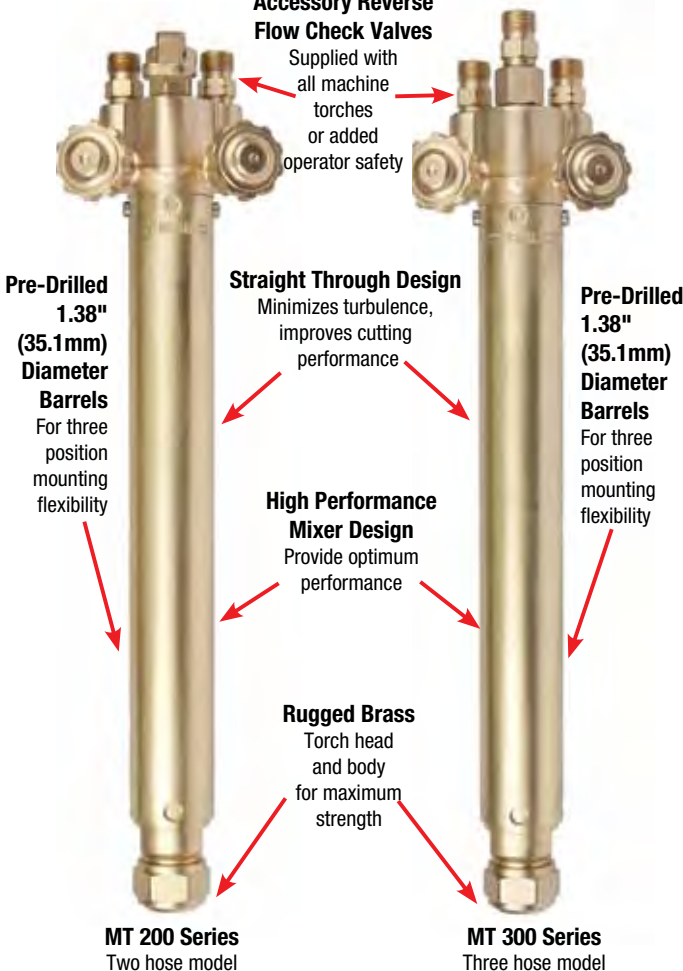


Disk assembly seals tight against seat in event of reverse flow
Spring compresses under normal flow, moving disk assembly forward and allowing gas flow



Accessory Reverse Flow Check Valves

Supplied with all machine torches or added operator safety



Pre-Drilled 1.38" (35.1mm) Diameter Barrels
For three position mounting flexibility

Straight Through Design
Minimizes turbulence, improves cutting performance

High Performance Mixer Design
Provide optimum performance

Rugged Brass
Torch head and body for maximum strength

Pre-Drilled 1.38" (35.1mm) Diameter Barrels
For three position mounting flexibility

MT 200 Series
Two hose model

MT 300 Series
Three hose model

Straight Cutting Torches & Cutting Machine Reference Guide

Torch Model	Tip Series	Fuel Gas Usage	Cut Capacity
"FC" Models			
ST 2600FC VanGuard™	1	Any Fuel Gas	1/8" to 8" (3.2mm to 203.2 mm)
ST 1000FC VanGuard	1	Any Fuel Gas	1/8" to 5" (3.2mm to 127.0 mm)
ST 900FC VanGuard	1	Any Fuel Gas	1/8" to 5" (3.2mm to 127.0 mm)
Machine Torches			
MT 200 (2 Hose)	1	Any Fuel Gas	7" (177.8 mm)
MT 300 (3 Hose)	1	Any Fuel Gas	12" (304.8 mm)
MT 1065 (3 Hose)	1	Any Fuel Gas	7" (177.8 mm)
MT 5 (3 Hose)	Series 1	Any Fuel Gas	7" (177.8 mm)

Tip Type –
BTN for use with Natural Gas & Propane.
BTMP for use with Propylene Gases

(For use with MT200, MT300 Series Machine Cutting Torches)

Length of Bevel	Tip Size	Speed IPM	Oxygen Pressure	Fuel Pressure	Cutting Oxygen Pressure
MT 200 Series					
1	4	10/18	60/75	8/10	--
1.5	4	8/16	60/75	8/10	--
2	4	6/14	60/75	8/10	--
2.5	4	5/12	60/75	8/10	--
3	5	6/11	60/75	8/12	--
3.5	5	5/10	60/75	8/12	--
4	5	4/9	60/75	8/12	--
4.5	5	4/8	60/75	8/12	--
5	6	3/8	65/85	8/15	--
5.5	6	3/7	65/85	8/15	--
6	6	3/6	65/85	8/15	--
MT 300N Series					
1	4	10/18	35/65	10/12	40/60
1.5	4	8/16	35/65	10/12	40/60
2	4	6/14	35/65	10/12	40/60
2.5	4	5/12	35/65	10/12	40/60
3	5	6/11	35/65	10/12	40/65
3.5	5	5/10	35/65	10/12	40/65
4	5	4/9	35/65	10/12	40/65
4.5	5	4/8	35/65	10/12	40/65
5	6	3/8	35/65	10/12	40/75
5.5	6	3/7	35/65	10/12	40/75
6	6	3/6	35/65	10/12	40/75

Bevels of 30° to 70° are possible on mild steel and most alloy steel without a preheat attachment. High gas withdrawal rates will require manifolding. Consult your gas supplier.

MACHINE TORCHES

Victor machine cutting torches are available in two and three hose models. Three hose torches are high performance "straight through" design that minimizes turbulence and improves cut quality. Accessory reverse flow check valves are supplied for use at the torches inlet connection. All machine torches use Series 1 cutting tips and are supplied with accessory reverse flow check valves to be used on the torch inlet connections. Supplied with rack soldered to barrel.

MT 200 Series

Two Hose



- Cut capacity: 7" (177.8 mm)
- Series 1 cutting tips

Part No.	Model No.	Total Length	Barrel Length	Racking Length	Gas
0380-0215	MT 204A	8.5" (215.9 mm)	4.5" (114.3 mm)	--	*Acetylene
0380-0217	MT 210A	14" (355.6 mm)	10" (254.0 mm)	7" (177.8 mm)	*Acetylene
0380-0216	MT 210N	14" (355.6 mm)	10" (254.0 mm)	7" (177.8 mm)	**LP/Natural Gas

*May also be used on other pressurized fuel gases

**May also be used on other fuel gases except acetylene

Other machine torch models available. Ask for details

Gear racks: Must be ordered separately

MT 1065

Three Hose



- Cut capacity: 7" (177.8 mm)
- For use with all fuel gases
- Series 1 cutting tips
- Multi-torch beveling

Part No.	Model No.	Total Length	Barrel Diameter	Barrel Length	Racking Length	Gas
0399-1065	MT 1065N	8" (203.2 mm)	1.25" (31.8 mm)	4" (101.6 mm)	--	All
0399-1121	MT 1065A	8" (203.2 mm)	1.25" (31.8 mm)	4" (101.6 mm)	--	Acetylene

MT 300 Series

Three Hose



- Cut capacity: 12" (304.8 mm)
- Series 1 cutting tips

Part No.	Model No.	Total Length	Barrel Length	Racking Length	Gas
0380-0222	MT 310A	14" (355.6 mm)	10" (254.0 mm)	7" (177.8 mm)	*Acetylene
0380-0220	MT 310N	14" (355.6 mm)	10" (254.0 mm)	7" (177.8 mm)	**LP/Natural Gas
0380-0221	MT 310NV	14" (355.6 mm)	10" (254.0 mm)	7" (177.8 mm)	**LP/Natural Gas
0380-0223	MT 310AV	14" (355.6 mm)	10" (254.0 mm)	7" (177.8 mm)	*Acetylene
0380-0227	MT 318A	22.5" (571.5 mm)	18" (457.2 mm)	15" (381.0 mm)	Acetylene
0380-0228	MT 318AV	22.5" (571.5 mm)	18" (457.2 mm)	15" (381.0 mm)	*Acetylene
0380-0225	MT 318N	22.5" (571.5 mm)	18" (457.2 mm)	15" (381.0 mm)	**LP/Natural Gas
0380-0226	MT 318NV	22.5" (571.5 mm)	18" (457.2 mm)	15" (381.0 mm)	**LP/Natural Gas

*May also be used on other pressurized fuel gases

**May also be used on other fuel gases except acetylene

Other machine torch models available. Ask for details

Gear racks: must be ordered separately

MT 5

Three Hose



- Cutting capacity - 7" (177.8 mm)
- For use with any fuel gas 2 PSI and above
- Series 1 cutting tips

Part No.	Model No.	Total Length	Barrel Dia.	Barrel Length	Racking Length	Gas
0380-0208	MT 5	8.5" (215.9 mm)	1.38" (35.1 mm)	5.38" (136.7 mm)	5.38" (136.7 mm)	All

Machine Torches

CUTTING MACHINES / ACCESSORIES

CUTTING MACHINES

VCM 200

Portable Cutting Machine

The versatile VCM 200 is a precision, tractor-type machine that can be used on its own track for straight line cutting and a variety of welding operations. Off track and with a radius rod assembly, the VCM 200 can also be used for circle cutting.

- Large thumb screws for hand tight adjustments
- Dual drive controls & direct speed readout
- Cone disc drive
- Constant speed AC induction motor located on the side opposite the torch for cooler, more efficient operation
- Counter-balanced design allows torch racking distance up to 18" (457.2 mm) from the machine
- Speed constant over wide range of temperatures
- Torch holder designed for 1.38" (35.1 mm) barrel diameter torches

Package Description #1:

- Cutting machine
- MT 210A torch & torch rack
- Hoses & fittings (for 2 hose operation)
- 32 pitch pinion torch holder
- 3 hose manifold block

Package Description #2:

- Cutting machine
- Hoses & fittings (for 2 hose operation)
- 32 pitch pinion torch holder
- 3 hose manifold block

VCM 200 Series Ordering Information

Part No.	Model No.	Speed Range/Minute	Pkg. Includes
0200-0220	VCM 200	1-60" (25.4 mm-152.4 cm)	See Package Description #1
0200-0224	VCM 200HS	5-120" (127 mm-304.8 cm)	See Package Description #1
0200-0240	*VCM 200HT	1-60" (25.4 mm-152.4 cm)	See Package Description #1
0200-0221	VCM 201	1-60" (25.4 mm-152.4 cm)	See Package Description #2
0200-0225	VCM 201HS	5-120" (127 mm-304.8 cm)	See Package Description #2
0200-0241	*VCM 201HT	1-60" (25.4 mm-152.4 cm)	See Package Description #2

Export models available with 220V AC to 110V AC step down transformer

*Models VCM-200 HT, VCM-201 HT, include heat shield

Accessory Ordering Information

Part No.	Description
0212-0018	12' (3.7 m) track section for line cutting
0212-0019	9' (2.7 m) track section for line cutting
0212-0005	6' (1.8 m) track section for line cutting
0252-0040	Radius rod for circle cutting
0253-0042	100" (254.0cm) radius rod for circle cutting
0252-0136	Dual torch mount assembly
0252-0103	Heat shield



Specifications

Straight Line / Circle

- Length increments of 72" (182.9 cm) (track length)
- Circle diameters 4" (101.6 mm) to 96" (243.8 cm)

Speed Range

- 1-60"/minute (25.4 mm-152.4 cm/minute)

Dimensions

- Length - 14.25" (362.0 mm)
- Width - 11" (279.4 mm)-machine only
28.5" (723.9 mm)-machine & torch holder
- Height - 11.5" (292.1 mm)-top of torch holder
5.5" (139.7 mm)-top of machine
- Weight-Machine - 47 lb. (21 kg)

VCM 200 HS

High Speed

Has all the convenience and portability features of the standard VCM-200 machine, plus a speed range of 5-120"/min (12.7-304.8 cm/min). The VCM-200HS has a flat mounting deck.

VCM 200 HT

High Temperature

Same convenience, portability features and speed of the VCM-200 (Max. temp. 300°F), plus the addition of a heat shield.

Torch Holder Adapter

Part No. 0252-0138

The Torch Holder Adapter is used to adapt the **Thermal Dynamics® SL100 180 Degree plasma torches** to the VCM machine. The torch adaptor allows the machine torch to mount on 13/8" mounting tube.

Please contact Technical Services on 1-800-426-1888 for more information.

Model BHA 2



Model BHA 2 adjustable head adds flexibility to machine cutting torches by allowing bevel cuts without changing the position of the torch. It can be set at any angle from 0 to 90° on either side of vertical.

- Uses Series 1 cutting tips
- Optional preheat attachment is available for use with the BHA adjustable head attachment. The preheat attachment uses replaceable tip ends

Part No.	Description
0383-0012	BHA 2
0304-0060	Preheating Attachment

Tip nut included (not shown)

Model 591



Model 591 strip cutter for use with machine cutting torches only. It is designed to accept two tips for use with a common torch.

- Uses Series 1 cutting tips
- Adjustable for cutting strips from 1.25" (31.8 mm) to 12" (304.8 mm) wide, and thickness up to 3" (76.2 mm)

Part No.	Description
0383-0000	591 Strip Cutter

Model 497 Roller Guide



Model 497 roller guide is adaptable to most styles of cutting tips. Fits over the cutting tip shank and is fully adjustable for close, accurate work.

Part No.	Description
0383-0009	497 Roller Guide

Circle Cutting Attachment



Circle Cutting Attachment is easily attached to a cutting torch or cutting attachment. The roller guide is adjustable to various heights and is designed to hold the cutting tip at exact pre-set distance from the work. Cutting range 1.5" (38.1 mm) - 28" (71.1 cm) circle.

Part No.	Description
0383-0006	D 496 Circle Cutting for Series 1 tips

Machine Torches

CUTTING ACCESSORIES / REFERENCE GUIDE

ACCESSORIES

Test Gauges



For use when accurate line pressure is needed.

Part No.	Description
1420-0004	Oxygen, Model PD-10 100# Test, 2" (50.8 mm) Dia. Gauge
1420-0003	Fuel Gas, Model PD-11 30# Test, 2" (50.8 mm) Dia. Gauge

Gear Racks



For use with MT 200 and MT 300 Series cutting torches
(Must be ordered separately)

Part No.	Length	Pitch	Cutting Machine	Actual Length
0319-0054	10" (254.0 mm) Rack Kit	32	MT 210 & MT 310	7.8" (198.1 mm)
0319-0055	18" (457.2 mm) Rack Kit	32	MT 318	14.5" (368.3 mm)

This chart provides 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.

Victor Equipment Reference Guide

Handles	Cutting Attachments	Cutting Tips		Welding / Brazing Nozzles, Mixers, Tips	Heating Nozzles
HEAVY DUTY					
Victor Professional					
315FC H 315FC HD 310C	CA 2470 90°	3-101	3-GPN 3-GPP	TIPS W ET RTE TE	TIPS RTEN TEN
	CA 2460 90° CA 2461 75° CA 2462 180°	1-101	GPN GPP	MIXERS / TIP TUBES FE DFE UN UM Mixer Series	MIXERS / TIP TUBES FE DFE UN
Victor CutSkill®	MFA MFTA TEMFA (USE APPROPRIATE MIXER / TIP TUBE)				
WH 370FC-V	CA 370-V 90°				
MEDIUM DUTY					
Victor Professional					
100FC	CA 1350 90° CA 1351 75° CA 1352 180°	3-101	3-GPN 3-GPP	TIPS W-1 ET ET-1 TE	TIPS TEN
	Victor CutSkill®			MFA-1 TEMFA (USE APPROPRIATE MIXER / TIP TUBE)	MFN-1 TEMFN (USE APPROPRIATE MIXER / TIP TUBE)
WH 270FC-V	CA 270-V 90°			MIXERS / TIP TUBES UN-1 FE-1 UM-1 Mixer Series	MIXERS / TIP TUBES UN-1 FE-1
LIGHT DUTY					
Victor Professional					
J-28 J-40	CA 1260 90°	3-101	3-GPN 3-GPP	TIPS W-J, ET, TE	TIPS TEN
				MIXERS / TIP TUBES UN-J, DFE-1 FE-J, UM-J	MIXERS / TIP TUBES UN-J, UNN-J DFE-1, FE-J

Color Code: Acetylene Natural Gas / Propane Propylene

CGA Gas Cylinder Valve Outlets and Connections

Acetylene	300, 200, 520, 510	Carbon Dioxide	320	Nitrogen	**680, 580
Air (industrial).....	590	Helium	**680, 580	Nitrous Oxide	326
Air (Breathing)	**347, 346	Hydrogen.....	**695, 350	Oxygen	**701, H577, 540
Argon.....	**680, 580	Methane	**695, 350	Propane.....	510
Butane.....	510	Natural Gas	**695, 350		

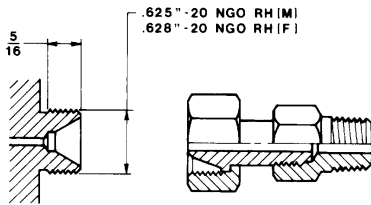
These CGA connections are designed by Compressed Gas Association, Standard V-1, 6th Edition, 1987.
For latest standards and connections, contact Compressed Gas Association.

*Inlet pressure up to 4000 PSIG
**Inlet pressure up to 5500 PSIG

CGA 200

Acetylene (MC)

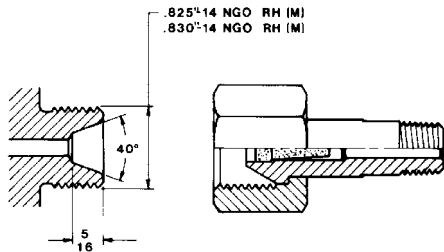
Part No.	Description
0964-0005	Swivel 1/4"-18 NPT(M) (Nut Included 0.628"-20 NGO RH(F))



CGA 300

Acetylene (Commercial)

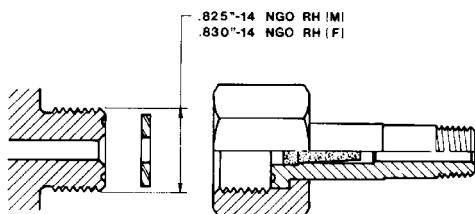
Part No.	Description
0968-0003	Nut 0.830"-14 NGO RH(F), Brass
0968-0005	Swivel 1/4"-18 NPT, Brass 2" (50.8 mm) Long
0968-0006	Nut 0.830"-14 NGO RH(F), Chrome
0968-0008	Swivel 1/4"-18 NPT, Brass 1.63" (41.4 mm) Long
0968-0014	Swivel 1/4"-18 NPT, Brass 3.25" (82.6 mm) Long
0968-0051	Swivel 1/4"-18 NPT, Chrome 3.25" (82.6 mm) Long



CGA 320

Carbon Dioxide

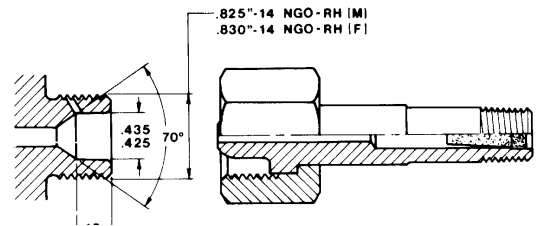
Part	Description
0985-0004	Swivel 1/4"-18 NPT, Brass 2" (50.8 mm) Long
0985-0008	Swivel 1/4"-18 NPT, Chrome 2" (50.8 mm) Long
0985-0030	Nut 0.830"-14 NGO RH(F), Brass
0985-0031	Nut 0.830"-14 NGO RH(F), Chrome
1408-0065	Washer



CGA 326

Nitrous Oxide

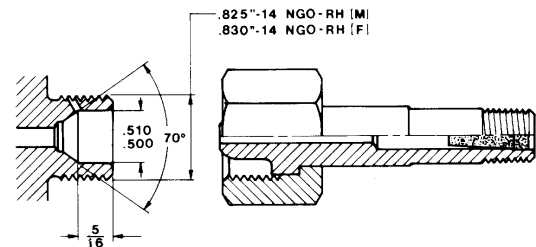
Part No.	Description
0963-0004	Swivel 1/4"-18 NPT, Chrome, 3" (76.2 mm) Long
0963-0016	Nut 0.830"-14 NGO RH(F), Chrome
0963-0015	Nut 0.830"-14 NGO RH(F), Brass
0963-0010	Swivel 1/4"-18 NPT, Brass



CGA 346

Air

Part No.	Description
0972-0010	Swivel 1/4"-18 NPT, Brass, 3" (76.2 mm) Long
0972-0015	Nut 0.830"-14 NGO RH(F), Brass
0972-0016	Nut 0.830"-14 NGO RH(F), Chrome
0972-0017	Swivel 1/4"-18 NPT, Chrome, 3" (76.2 mm) Long



CGA 347

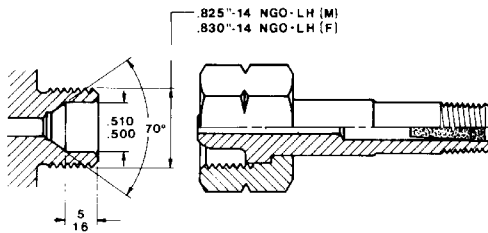
Air To 5500 PSIG

Part No.	Description
0978-0001	Swivel & Nut Assembly, 5/8"-20 Brass, 0.83"-14 NGO RH

CGA 350

Fuel Gas

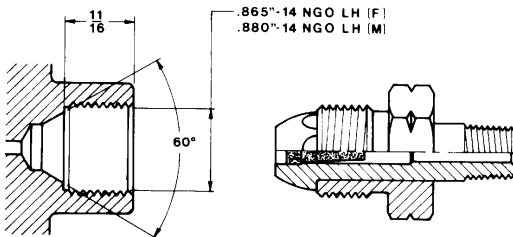
Part No.	Description
0983-0003	Nut 0.830"-14 NGO LF(F), Brass
0983-0005	Swivel 1/4"-18 NPT, Brass, 2.25" (57.2 mm) Long
0983-0008	Swivel 1/4"-18 NPT, Brass, 3" (76.2 mm) Long
0983-0013	Nut 0.830"-14 NGO LF(F), Stainless Steel
0983-0014	Swivel 1/4"-18 NPT, Stainless Steel, No filter, 2.25" (57.2 mm) Long
0983-0039	Nut 0.830"-14 NGO LF(F), Chrome
0983-0040	Swivel 1/4"-18 NPT, Chrome, 3" (76.2 mm) Long



CGA 510

Acetylene (Pol)

Part No.	Description
0970-0003	Nut 0.88"-14 NGO LH(M), Brass
0970-0005	Swivel 1/4"-18 NPT, Brass, 3.25" (82.6 mm) Long
0970-0008	Swivel 1/4"-18 NPT, Brass, 4.5" (114.3 mm) Long
0970-0011	Nut 0.88"-14 NGO LH(M), Chrome
0970-0015	Swivel 1/4"-18 NPT, Brass 2.5" (63.5 mm) Long
0970-0017	Swivel 1/4"-18 NPT, Chrome, 3" (76.2 mm) Long



CGA 520

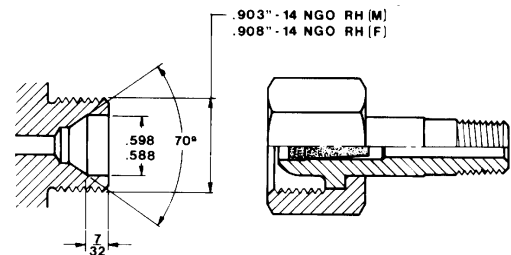
Acetylene (B)

Part No.	Description
0969-0003	Nut 0.9"-18 NGO RH(F)
0969-0005	Swivel 1/4"-18 NPT, 1.75" (44.5 mm) Long

CGA 540

Oxygen

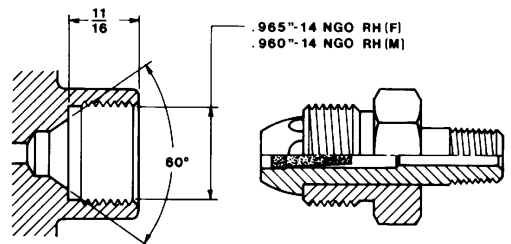
Part No.	Description
0967-0033	Swivel 1/4"-18 NPT, Brass, 2.25" (57.2 mm) Long
0967-0034	Swivel 1/4"-18 NPT, Brass, 3" (76.2 mm) Long
0967-0036	Swivel 1/4"-18 NPT, Chrome, 2.25" (57.2 mm) Long
0967-0038	Swivel 1/4"-18 NPT, Brass, 1.5" (38.1 mm) Long
0967-0039	Swivel 3/8"-18 NPT, Brass, 2.25" (57.2 mm) Long
0967-0044	Nut 0.91"-14 NGO RH(F), Brass
0967-0045	Nut 0.91"-14 NGO RH(F), Chrome
0967-0047	Nut 3/8", Brass Std. (Use with 0967-0039)
0967-0105	Nut 0.908"-14 NGO RH(F), Handwheel
0967-0106	Swivel 1/4"-18 NPT, Chrome, 3" (76.2 mm) Long
0967-0110	Swivel 1/4"-18 NPT, Chrome, 3" (76.2 mm) Long (Use with 0967-0105 Medical handwheel)



CGA 580

Nitrogen, Argon

Part No.	Description
0970-0005	Swivel 1/4"-18 NPT, Brass, 3.25" (82.6 mm) Long
0970-0008	Swivel 1/4"-18 NPT, Brass, 4.5" (114.3 mm) Long
0970-0015	Swivel 1/4"-18 NPT, Brass, 2.25" (57.2 mm) Long
0970-0017	Swivel 1/4"-18 NPT, Chrome, 3" (76.2 mm) Long
0973-0003	Nut 0.96"-14 NGO RH(M), Brass
0973-0004	Nut 0.96"-14 NGO RH(M), Stainless Steel
0973-0005	Nut 0.96"-14 NGO RH(M), Chrome

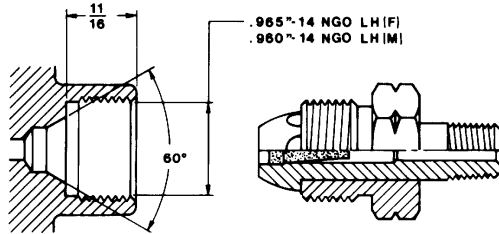


CGA Gas Cylinder Valve Outlets and Connections

CGA 590

Air

Part No.	Description
0970-0005	Swivel 1/4" NPT, Brass, 3.25" (82.6 mm) Long
0970-0008	Swivel 1/4" NPT, Brass, 4.5" (114.3 mm) Long
0970-0015	Swivel 1/4" NPT, Brass, 2.25" (57.2 mm) Long
0970-0017	Swivel 1/4"-18 NPT, Chrome, 3" (76.2 mm) Long
0974-0003	Nut 0.83"-14 NGO RH(F), Chrome
0974-0010	Nut 0.83"-14 NGO RH(F), Chrome



CGA 677

Inert Gases Up To 7500 Psig

Part No.	Description
0958-0008	Nut, 1.03"-14 NGO LH(F)

CGA 695

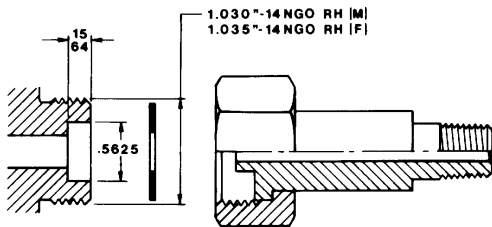
Fuel Gases To 5500 Psig

Part No.	Description
0959-0003	Nut, 10.88"-14 NGO RH(M), Chrome

CGA 660

Corrosive

Part No.	Description
0995-0017	Swivel 1/4"-18 NPT, Stainless Steel, No filter, 2.5" (63.5 mm) Long
1408-0024	Washer



CGA 680

Nitrogen, Argon Up To 5500 PSIG

Part No.	Description
0958-0003	Nut, 1.04"-14 NGO RH(M)

CGA 701

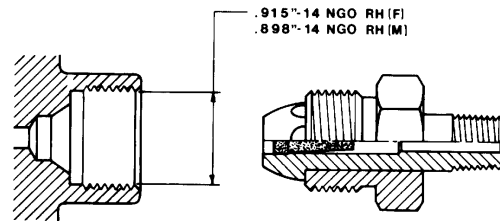
Oxygen To 5500 PSIG

Part No.	Description
0988-0003	Nut, 1.11"-14 NGO RH(F)

992

British Oxygen & Inert Gas

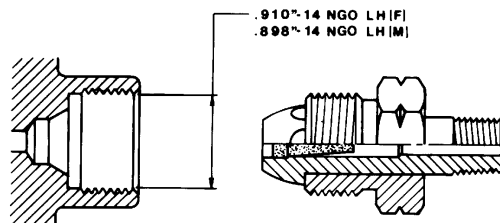
Part No.	Description
0970-0005	Swivel 1/4"-18 NPT, Brass, 3.25" (82.6 mm) Long
0970-0008	Swivel 1/4"-18 NPT, Brass, 4.5" (114.3 mm) Long
0970-0015	Swivel 1/4"-18 NPT, Brass, 2.25" (57.2 mm) Long
0992-0003	Nut 0.9"-14 NGO RH(M), Brass



993

British Fuel Gas

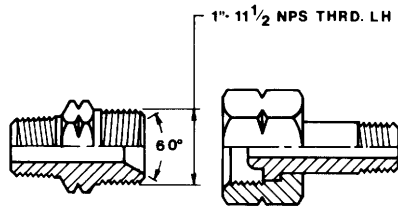
Part No.	Description
0993-0003	Nut 0.898"-14 NGO LH(M), Brass
0970-0005	Swivel 1/4"-18 NPT, Brass, 3.25" (82.6 mm) Long
0970-0008	Swivel 1/4"-18 NPT, Brass, 4.5" (114.3 mm) Long
0970-0015	Swivel 1/4"-18 NPT, Brass, 2.25" (57.2 mm) Long



VICTOR 996

Manifold Oxygen & Inert Gas

Part No.	Description
0996-0004	Nut 1-11.5" NPS RH(F), Brass
0996-0005	Swivel 1/2"-14 NPT, Brass, No Filter 2.5" (63.5 mm) Long



VICTOR 997

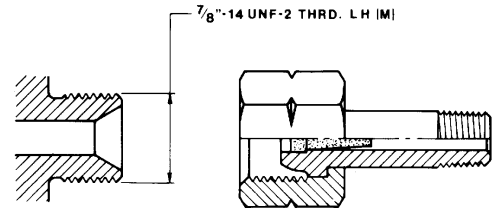
Manifold Fuel Gas

Part No.	Description
0997-0004	Nut 1"-11.5 NPS LH(F), Brass
0996-0005	Swivel 1/2"-14 NPT, Brass, No Filter 2.5" (63.5 mm) Long
0996-0031	Swivel 1/4"-18 NPT, Brass, No Filter 2.5" (63.5 mm) Long, 0.13" Orifice, Hydrogen Only
0996-0032	Swivel 1/2"-14 NPT, Brass, No Filter 2.5" (63.5 mm) Long, 0.13" Orifice, Hydrogen Only

CGA 025

Station Fuel Gas

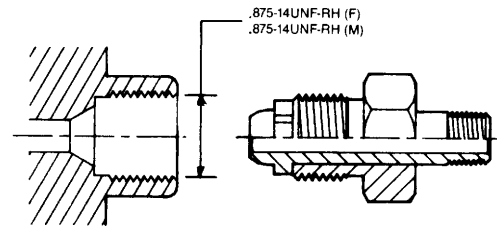
Part No.	Description
0966-0003	Nut 7/8"-14 UNF LH(F), Brass
0965-0004	Swivel 1/4"-18 NPT, Brass, 2" (50.8 mm) Long
0952-0000	Swivel 1/4"-18 NPT, Brass, 2" (50.8 mm) Long (350 Series)



CGA 034

Station Inert Gas

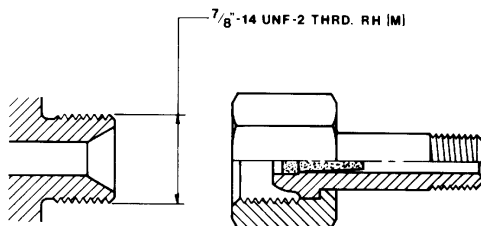
Part No.	Description
0956-0000	Nut 7/8"-14 UNF RH(M), Brass
0952-0001	Swivel 1/4"-18 NPT, RH(M) Brass, 2.5" (63.5 mm) Long



CGA 024

Station Oxygen

Part No.	Description
0969-0003	Nut 0.9"-18 NGO RH(F)
0969-0005	Swivel 1/4"-18 NPT, 1.75" (44.5mm) Long
0952-0000	Swivel 1/4"-18 NPT, Brass, 2" (50.8mm) Long (350 Series)





CUTSKILL EQUIPMENT

Outfits

350 Outfit

Heavy Duty

This heavy/medium duty outfit cuts up to 3/4" (19.1 mm) or 6" (152.4 mm) with optional tips. It welds up to 1/8" (3.2 mm) or 3" (76.2 mm) with optional nozzles.



- D 350 Series regulators
- WH 370FC-V torch handle with built-in flashback arrestors and check valves
- CA 370-V cutting attachment
- Welding nozzle (See chart)
- Cutting tip (See chart)
- RM-grade hose 25' x 1/4" (7.6 m x 6.4 mm)
- Striker and soft-sided goggles

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-2647	2-UM	1-1-101	–	D 350-125-540	D 350-15-300
	0384-2646	2-UM	1-1-101	–	D 350-125-540	D 350-15-510

250 Outfit

Medium Duty

This medium duty outfit cuts up to 1/2" (12.7 mm) or 5" (127.0 mm) with optional tips. It welds up to 5/64" (2.0 mm) or 1.25" (31.8 mm) with optional nozzles.



- D 250 Series regulators
- WH 270FC-V torch handle with built-in flashback arrestors and check valves
- CA 270-V cutting attachment
- Welding nozzle (See chart)
- Cutting tip (See chart)
- Heating nozzle (See chart)
- RM-grade hose 20' x 3/16" (6.1 m x 4.8 mm)
- Striker and soft-sided goggles

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-2531	0-UM-1	0-3-101	–	D 250-80-540	D 250-15-300
	0384-2530	0-UM-1	0-3-101	–	D 250-80-540	D 250-15-510
	0384-2533	0-UM-1	0-3-101	6-MFA-1	D 250-80-540	D 250-15-510
British Fuel	0384-2532	0-UM-1	0-3-101	–	D 250-15-993	D250-15-993

350AF Outfit

This outfit is capable of cutting up to 6" (127.0 mm) with appropriate tip.



- D 350 Series regulators
- WH 370FC-V torch handle with built-in flashback arrestors and check valves
- CA 370-V cutting attachment
- Heating nozzle (See chart)
- Cutting tip (See chart)
- T-grade hose 20' x 3/16" (6.1 m x 4.8 mm)
- Striker and soft-sided goggles

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator
Propane/ Natural Gas	0384-2648	–	1-1-GPN	8-MFN	D 350-80-540	D 350-40-510LP
Propylene	0384-2649	–	1-1-GPP	8-MFN	D 350-80-540	D 350-40-510LP

250AF Outfit

Capable of cutting up to 5" (127.0 mm) with appropriate cutting tip.



- D 250 Series regulators
- WH 270FC-V torch handle with built-in flashback arrestors and check valves
- CA 270-V cutting attachment
- Heating nozzle (See chart)
- Cutting tip (See chart)
- T-grade hose 20' x 3/16" (6.1 m x 4.8 mm)
- Striker and soft-sided goggles

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Heating Nozzle	Oxygen Regulators	Fuel Gas Regulator
Propane/ Natural Gas	0384-2534	–	1-3-GPN	6-MFN-1	D 250-80-540	D 250-40-510LP
Propylene	0384-2535	–	1-3-GPP	6-MFN-1	D 250-80-540	D 250-40-510LP

Portable Tote

Medium Duty

This medium duty portable outfit has a rugged patented design with a molded plastic carrying case and cuts up to 1.25" (31.8 mm) or welds up to 3/32" (2.4 mm).



- D 150 CR regulator
- D 160 AR regulator
- WH 270FC-V welding torch with built-in flashback arrestors and check valves
- CA 270-V cutting attachment
- Welding nozzle (See chart)
- Cutting tip (See chart)
- Twin RM-grade hose 12.5' x 3/16" (3.81 m x 4.8 mm)

Optional

- 10 cu. ft. CGA 200 acetylene cylinder
- 20 cu. ft. CGA 540 oxygen cylinder

Gas Service	Part No.	Welding Nozzle	Cutting Tip	Cylinders	Oxygen Regulators	Fuel Gas Regulator
Acetylene	0384-0938	2-UM-1	0-3-101	No	FPR 150CR-540	FPR 160AR-200
	0384-0939	2-UM-1	0-3-101	Yes	FPR 150CR-540	FPR 160AR-200

Regulators

SINGLE STAGE / FLOW GAUGE

D 350 Heavy Duty

DESIGN/CONSTRUCTION

- Larger regulator body for heavy duty applications
- Acetylene, Oxygen, Inert and LP gas models
- Color coded knobs
- Single stage
- Forged brass body & Zinc Aluminum housing cap
- 2" (50.8 mm) gauges
- Delivery ranges vary based on model (see ordering information)
- 9/16"-18 outlet connection
- Internal relief



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Oxygen	0387-2304	D350-80-540	4-80
	0387-2303	D350-125-540	5-125
Acetylene	0387-2405	D350-15-300	2-15
	0387-2404	D350-15-510	2-15
	0781-9672	D350-15-510WQ (Longer Swivel)	2-15
Inert	0781-9320	D350-80-580	4-80
LP	0781-9671	D350-40-510LP	2-40

D 250 Medium Duty

DESIGN/CONSTRUCTION

- Compact size for light to medium duty applications
- Acetylene, Oxygen and LP gas models
- Color coded knobs
- Single stage
- Forged brass body & Zinc Aluminum housing cap
- 2" (50.8 mm) gauges
- Delivery ranges vary based on model (see ordering information)
- 9/16"-18 outlet connection
- Internal relief



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Oxygen	0387-2004	D250-80-540	4-80
	0387-0231	D250-125-540	5-125
Acetylene	0387-2104	D250-15-300	2-15
	0387-2103	D250-15-510	2-15
British Acetylene	0387-0301	D250-15-993	2-15
British Oxygen	0387-0300	D250-80-992	4-80
LP	0387-0232	D250-40-510LP	2-40

SR 5/SR 6

Light Duty

DESIGN/CONSTRUCTION

- Light weight, compact
- Machined brass body & housing cap
- 1.5" (38.1mm) gauges - brass
- Stem type seat mechanism
- 1.25" (31.8mm) diaphragm - fabric reinforced neoprene
- Internal self reseating diaphragm relief valve (no relief valve is needed on SR 6 Series regulators).
- Sintered inlet filter - bronze

DIMENSIONS

4.75" W x 4.25" H x 3.25" D
(120.7 mm x 108.0 mm x 82.6 mm)

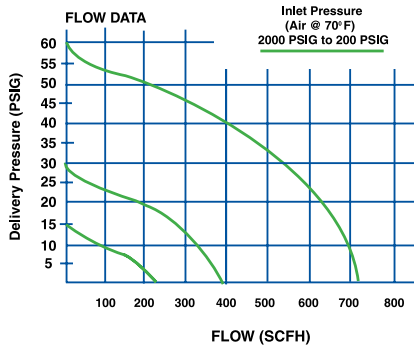
WEIGHT

1 lb. 12 oz. (0.79kg)

PERFORMANCE

Maximum inlet – 3000 PSIG
Delivery range (See chart)

Regulators will deliver at least the stated upper range at no flow and in some cases may exceed the stated upper range.



Gas Service	Part No.	Model No.	Delivery Range (PSIG)
Oxygen, CO ₂ , Inert Gas	0780-2544	SR 5-40-320	2-40
	0780-2537	SR 5-40-580	2-40
	0780-2520	SR 5-60-540 CS	2-60
	0781-2545	SR 5-60-540R CS	2-60
Acetylene	0780-2521	SR 6-15-510 CS	2-15
	0780-2524	SR 6-15-200	2-15
	0781-2546	SR 6-15-200R CS	2-15
L.P. Gas	0780-2533	SR 7-40-510 CS	2-40

Outlet Connections: 9/16"-18 (M), 5/8"-18 (F)



AF 210

Medium Capacity

DESIGN/CONSTRUCTION

- Dual 2" gauges
- Zinc-Aluminum bonnet
- Single stage design
- Ergonomic adjusting knob
- For Argon or Argon/CO₂ mix shielding gases
- Color scale graphics with MIG and TIG ranges

PERFORMANCE

Maximum inlet pressure: 3000 PSIG
Up to 50 CFH / for Argon and up to 38 CFH / for CO₂

Part No.	Description
0781-4169	AF-210-580
0387-0235 CS	AF-210-580 CS (with 10' hose)

Outlet Connection: 5/8"-18 RH(F)
CS = Clamshell Package



AF & CF 150

Light Duty

DESIGN/CONSTRUCTION

- Single stage design
- Forged brass body & housing cap
- Stem type seat mechanism
- Argon, Argon/CO₂ mix & CO₂ models
- Available in CGA 320 & 580 inlet connections
- Optional MIG kit available with 10' (3.1 m) hose

PERFORMANCE

Maximum inlet pressure: 3000 PSIG
Up to 50 CFH / for Argon and up to 38 CFH / for CO₂

Part No.	Model No.
0781-1103	AF 150-580 CS (With 10' (3.1m) hose)
0387-0245	AF 150-580 CS
0781-1120	CF 153-320
0781-1123	CF 153-320 CS (With 10' (3.1m) hose)

Outlet Connection: 5/8"-18 RH(F)
CS = Clamshell Package



Regulators

PURGING / FLOW METER

TPR 250 Purging Regulator

Light Duty

DESIGN/CONSTRUCTION

- Single stage design
- Forged brass body & housing cap
- 2" (50.8 mm) gauges
- Stem type seat mechanism
- Neoprene diaphragm

DIMENSIONS

6.38" W x 5.13" H x 4.25" D
(162.1 mm x 130.3 mm x 108.0 mm)

WEIGHT

2 lb. 15 oz. (1.33kg)

PERFORMANCE

Maximum inlet pressure: 3000 PSIG



Part No.	Model No.	Delivery Pressure (PSIG)
0781-9133	TPR 250-125-580 CS	5-125
0781-9127	TPR 250-125-320	5-125
0781-9134	TPR 250-200-580 CS	10-250
0781-9135	TPR 250-500-580 CS	10-250

Outlet Connection: 1/4"-37° flare.

CS = Clamshell Package

HRF 1400

Light Duty

DESIGN/CONSTRUCTION

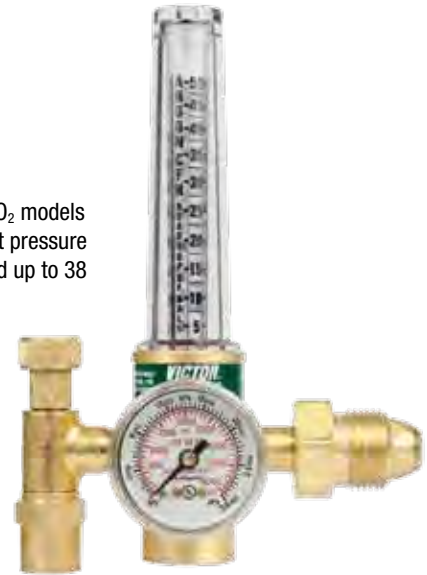
- Regulator / Flow meter
- Single stage piston design
- Argon, Argon/CO₂ mix & CO₂ models
- 25 PSIG or 80 PSIG pre-set pressure
- Up to 50 CFH for Argon and up to 38 CFH for CO₂ delivery
- Available in CGA 320 & 580 inlet connections
- Optional MIG kit available with 10' (3.1 m) hose

PERFORMANCE

Maximum inlet pressure: 3000 PSIG

Outlet pressure: preset HRF
1425 – 25 PSIG

HRF 1480 –80 PSIG



Part No.	Model No.
0781-2723	HRF 1425-580
0387-0240	HRF 1425-580 CS
0781-2743	HRF 1425-580 (With 10' (3.1 m) hose)
0781-2725	HRF 1480-320
0781-2745	HRF 1480-320 (With 10' (3.1 m) hose)
0781-2724	HRF 1480-580
0781-2744	HRF 1480-580 (With 10' (3.1 m) hose)

Outlet Connection: 5/8"-18 RH(F)

CS = Clamshell Package

Torches and Safety Accessories

HANDLES / ATTACHMENTS / STRAIGHT TORCHES / SAFETY

WH 370FC-V &

Heavy Duty

WH 270FC-V

Medium Duty



- Built-in reserve flow check valves and flashback arrestors
- Tube within a tube design
- Three piece "Y" rear assembly with threaded connection
- 9/16"-18 hose connections
- Stainless steel ball valves

Heavy and medium duty handles for cutting attachments, welding tips and heating assemblies. Each includes built in reverse flow check valves and flashback arrestors for added operator safety.

Part No.	Model No.	Description
0387-2750	WH 370FC-V (formerly WH 36)	Heavy Duty Torch Handle. Accepts CA 370-V Cutting Attachment, Series W Welding Tips and MFA/MFN/Type55 Heating Assemblies
0387-2700	WH 270FC-V (formerly WH 26)	Medium Duty Torch Handle. Accepts CA 270-V Cutting Attachment, Series W-1 Welding Tips and MFA-1/MFN-1 Heating Assemblies

CA 370-V

Heavy Duty

CA 270-V

Medium Duty

(for use with all fuel gases)



- Universal mixer
- Easy-on cutting oxygen
- Stainless steel cutting oxygen lever and ball valve

Part No.	Model No.	Cutting Range	Tip Series	Head Angle
0387-2650	CA 370-V (formerly CA 35)	6" (152.4 mm)	1	90°
0387-2600	CA 270-V (formerly CA 25)	5" (127.0 mm)	3	90°

Heavy and medium duty cutting attachments for use with acetylene, propane, butane, liquid air fuel gas, natural gas (2 PSI & above) and propylene. Cutting attachment accepts Victor Professional and CutSkill Victor Style Tips.

ST 300FC Series

Heavy Duty



- For use with any fuel gas, 5 PSIG and above
- Cutting capacity: 1/8" (3.2 mm) to 5" (127.0 mm)
- Hose connections are 9/16"-18 unless noted
- Includes built-in patented flashback arrestors and reverse flow check valves for added safety
- Built-in flashback arrestors no need for accessory flash arrestors
- Built-in reverse flow check valves no need for accessory check valves

Part No.	Model No.	Lever Position	Tip Series	Head Angle	Length
0381-1917	ST 300FC	Top Rear	1	90°	21" (53.3 cm)

Flashback Arrestors - Pair Packs



Part No.	Model No.	Gas	Description	Connection
0656-0006	FBT-2	Oxy/Fuel	Torch Mount	"B" 9/16"-18 RH/LH (CGA 022 & 023)
0656-0007	FBR-2	Oxy/Fuel	Regulator Mount	"B" 9/16"-18 RH/LH (CGA 022 & 023)





Cutting Tips

REFERENCE GUIDE / ACETYLENE

CutSkill Series 1 – Acetylene Cutting Tips

Acetylene

Series 1 tip style, fuel gas usage and Victor equipment compatibility shown below

Type		Fuel Gas	Application
101		A	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
108		A	<ul style="list-style-type: none"> Boiler tube removal Tips are short to insert head and tip inside tube
118 Tip (Round)		A	<ul style="list-style-type: none"> Deseaming, scarfing, gouging, weld preparation, removing defective welds, washing rivets
118 Tip (Sides Cutaway)		A	<ul style="list-style-type: none"> Deseaming, scarfing, gouging, weld preparation, removing defective welds, washing rivets

Tip packaging is color coded with reference to fuel gas usage. Other special application tips available. Contact Technical Services at 1-800-426-1888

Handle	Cutting Attachment	Fuel Gas
Cutting Torches		
315FC, H 315FC	CA 2460-90°	All
315FC, H 315FC	CA 2461-75°	All
315FC, H 315FC	CA 2462-180°	All
Straight Torches		
ST 2600FC	–	All
ST 1000FC	–	All
ST 900FC	–	All
*HC 1200C	–	All
Machine Torches		
MT 200	–	A, LP
MT 300	–	A, LP

Material Thickness – Tip Size

Material Thickness	Tip Size
1/8"	000
1/4"	00
3/8" – 1/2"	0
3/4"	1
1" – 1 1/2"	2
2" – 2 1/2"	3
3"	4
4" – 5"	5
6" – 8"	6*
10"	7*
12"	8*

*For best results, use "High Flow Handles" and 3/8" hose

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size: 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Clam Shell Packaging

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

CutSkill Series 1 – Acetylene Cutting Tips

CutSkill Series 1 Type 101



- General purpose
- Hand and machine torch cutting

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	6700C2408	CS1101000	20 / 25	20 / 25	3 / 5	3 / 5	3 / 5	3 / 5	28 / 32	.04
1/4"	00	6700C2409	CS110100	20 / 25	30 / 35	3 / 5	4 / 6	3 / 5	4 / 6	27 / 30	.05
3/8"	0	6700C2410	CS11010	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	6700C2410	CS11010	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
3/4"	1	6700C2411	CS11011	30 / 35	80 / 85	4 / 7	9 / 14	3 / 5	8 / 13	17 / 21	.07
1"	2	6700C2412	CS11012	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	6700C2412	CS11012	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
2"	3	6700C2413	CS11013	40 / 45	210 / 225	5 / 14	15 / 24	4 / 9	14 / 22	12 / 15	.11
2 1/2"	3	6700C2413	CS11013	45 / 50	225 / 240	5 / 16	18 / 29	4 / 10	16 / 26	10 / 13	.11
3"	4	6700C2414	CS11014	40 / 50	270 / 320	6 / 17	20 / 33	5 / 10	18 / 30	9 / 12	.12
4"	5	6700C2415	CS11015	45 / 55	390 / 425	7 / 18	24 / 37	5 / 12	22 / 34	8 / 11	.15
5"	5	6700C241	CS11015	50 / 55	425 / 450	7 / 20	29 / 41	5 / 13	26 / 38	7 / 9	.15
6"	6**	6700C2416	CS11016	45 / 40	500 / 600	10 / 22	33 / 48	7 / 13	30 / 44	6 / 8	.18
8"	6**	6700C2416	CS11016	45 / 55	500 / 600	10 / 25	37 / 55	7 / 14	34 / 50	5 / 6	.19
10"	7**	6700C2417	CS11017	45 / 55	700 / 850	15 / 30	44 / 62	10 / 15	40 / 56	4 / 5	.34
12"	8**	6700C2418	CS11018	45 / 55	900 / 1000	20 / 35	53 / 68	10 / 15	48 / 62	3 / 5	.41

CutSkill Series 1 Type 108



- Boiler tube removal
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
3/8"	0	6700C2990	CS11080	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	6700C2990	CS11080	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
3/4"	1	6700C2991	CS11081	30 / 35	80 / 85	4 / 7	9 / 14	3 / 5	8 / 13	17 / 21	.07
1"	2	6700C299	CS11082	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	6700C2992	CS11082	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
2"	3	6700C2993	CS11083	40 / 45	210 / 225	5 / 14	15 / 24	4 / 9	14 / 22	12 / 15	.11
2 1/2"	3	6700C2993	CS11083	45 / 50	225 / 240	5 / 16	18 / 29	4 / 10	16 / 26	10 / 13	.11
3"	4	6700C2994	CS11084	40 / 50	270 / 320	6 / 17	20 / 33	5 / 10	18 / 30	9 / 12	.12

CutSkill Series 1 Type 118 (Round)



- Gouging, grooving, rivet washing
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
3/8"	0	6700C2700	CS11180	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	6700C2700	CS11180	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
1"	2	6700C2701	CS11182	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	6700C2701	CS11182	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
3"	4	6700C2702	CS11184	40 / 50	270 / 320	6 / 17	20 / 33	5 / 10	18 / 30	9 / 12	.12

CutSkill Series 1 Type 118 (Sides Cutaway)



- Gouging, grooving, rivet washing
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
6"	6**	6700C2703	CS11186	45 / 40	500 / 600	10 / 22	33 / 48	7 / 13	30 / 44	6 / 8	.18
8"	6**	6700C2703	CS11186	45 / 55	500 / 600	10 / 25	37 / 55	7 / 14	34 / 50	5 / 6	.19
12"	8**	6700C2704	CS11188	45 / 55	900 / 1000	20 / 35	53 / 68	10 / 15	48 / 62	3 / 5	.41







Cutting Tips

REFERENCE GUIDE / PROPYLENE

CutSkill Series 1 – Propylene Cutting Tips

Propylene

Series 1 tip style, fuel gas usage and Victor equipment compatibility shown below

Type		Fuel Gas	Application
GPP		P	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
GPP-P Plated		P	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
HPP		P	<ul style="list-style-type: none"> Heavy preheat for scrap, bevel and other heavy preheat requirements
MTHP		P	<ul style="list-style-type: none"> High speed machine cutting through 10" (252 mm)
303MP		P	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
318MP		P	<ul style="list-style-type: none"> General purpose Gouging and rivet washing

Handle	Cutting Attachment	Fuel Gas
Cutting Torches		
315FC, H 315FC	CA 2460-90°	All
315FC, H 315FC	CA 2461-75°	All
315FC, H 315FC	CA 2462-180°	All
Straight Torches		
ST 2600FC	–	All
ST 1000FC	–	All
ST 900FC	–	All
*HC 1200C	–	All
*HC 1100C	–	Non-A
Machine Torches		
MT 200	–	A, LP
MT 300	–	A, LP

Material Thickness – Tip Size

Material Thickness	Tip Size
1/8"	000
1/4"	00
3/8" – 1/2"	0
3/4"	1
1" – 1 1/2"	2
2" – 2 1/2"	3
3"	4
4" – 5"	5
6" – 8"	6*
10"	7*
12"	8*

*For best results, use "High Flow Handles" and 3/8" hose

Preheat Chart for Propylene and LP Tips

Torch Series	Preheat Oxygen (PSIG)	Preheat Fuel (PSIG)
MT 200	--	8 oz. and up
MT 300	30/35	8 oz. and up
ST 2600FC	--	1 PSIG and up
ST 900FC	--	5 PSIG and up
ST 1000FC	--	5 PSIG and up

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

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Clam Shell Packaging

Tip packaging is color coded with reference to fuel gas usage. Other special application tips available. Contact Technical Services at 1-800-426-1888

U.S. Customer Care: 1-800-426-1888 / FAX 1-800-535-0557

Canada Customer Care: 1-905-827-4515 / FAX 1-800-588-1714

CutSkill Series 1 – Propylene Cutting Tips

CutSkill Series 1 Type GPP



- General purpose
- Two-piece
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	6700C2588	CSGPP000	20/25	12/14		23/108	3/5	5/6	24/28	0.04
1/4"	00	6700C2589	CSGPP00	20/25	22/26		23/108	3/5	5/7	21/25	0.04
3/8"	0	6700C2590	CSGPP0	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	6700C2590	CSGPP0	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	6700C2591	CSGPP1	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	6700C2592	CSGPP2	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	6700C2592	CSGPP2	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	6700C2593	CSGPP3	40/50	150/175	REFERENCE PREHEAT CHART ON PAGE 94	23/108	5/9	14/18	10/14	0.10
2 1/2"	3	6700C2593	CSGPP3	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	6700C259	CSGPP4	45/50	210/250		23/108	8/12	16/20	8/11	0.12
4"	5	6700C2595	CSGPP5	45/55	300/360		23/108	8/12	20/30	7/10	0.14
5"	5	6700C2595	CSGPP5	50/55	330/360		23/108	8/12	20/30	6/9	0.14
6"	6**	6700C2596	CSGPP6	45/55	400/500		23/153	10/15	25/35	5/7	0.17
8"	6**	6700C2596	CSGPP6	55/65	450/500		23/153	10/15	25/35	4/6	0.18
10"	7**	6700C2597	CSGPP7	55/65	450/500		23/153	8/12	25/35	3/5	0.34
12"	8**	6700C2598	CSGPP8	60/70	450/500		23/153	10/14	25/35	3/4	0.14

CutSkill Series 1 Type GPP-P (Plated)



- General purpose
- Two-piece
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4"	00	6700C2949	CSGPPP00	20/25	22/26		23/108	3/5	5/7	21/25	0.04
3/8"	0	6700C2950	CSGPPP0	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	6700C2950	CSGPPP0	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	6700C2951	CSGPPP1	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	6700C2952	CSGPPP2	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	6700C2952	CSGPPP	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	6700C2953	CSGPPP3	40/50	150/175	REFERENCE PREHEAT CHART ON PAGE 94	23/108	5/9	14/18	10/14	0.10
2 1/2"	3	6700C2953	CSGPPP3	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	6700C2954	CSGPPP4	45/50	210/250		23/108	8/12	16/20	8/11	0.12
4"	5	6700C2955	CSGPPP5	45/55	300/360		23/108	8/12	20/30	7/10	0.14
5"	5	6700C2955	CSGPPP5	50/55	330/360		23/108	8/12	20/30	6/9	0.14
6"	6**	6700C2956	CSGPPP6	45/55	400/500		23/153	10/15	25/35	5/7	0.17
8"	6**	6700C2956	CSGPPP6	55/65	450/500		23/153	10/15	25/35	4/6	0.18
10"	7**	6700C2957	CSGPPP7	55/65	450/500		23/153	8/12	25/35	3/5	0.34

CutSkill Series 1 Type HPP



- Hand and machine cutting
- Heavy preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
3/4"	1	6700C2901	CSHPP1	30/35	70/80		44/240	3/6	22/110	15/20	0.08
1"	2	6700C2902	CSHPP2	35/40	115/125		44/240	3/6	22/110	14/18	0.09
1 1/2"	2	6700C2902	CSHPP2	40/45	125/135		44/240	4/8	22/110	12/16	0.09
2"	3	6700C2903	CSHPP3	40/45	150/175		44/240	4/8	22/110	10/14	0.10
2 1/2"	3	6700C2903	CSHPP3	45/50	175/200		44/240	5/9	22/110	9/12	0.10
3"	4	6700C2904	CSHPP4	40/50	210/250	REFERENCE PREHEAT CHART ON PAGE 94	44/240	6/9	22/110	8/11	0.12
4"	5	6700C2905	CSHPP5	45/55	300/360		44/240	6/9	22/110	7/10	0.14
5"	5	6700C2905	CSHPP5	50/55	330/360		44/240	6/10	22/110	6/9	0.14
6"	6**	6700C2906	CSHPP6	45/55	400/500		44/240	6/10	22/110	5/7	0.17
8"	6**	6700C2906	CSHPP6	55/65	450/500		44/240	8/12	22/110	4/6	0.18
10"	7**	6700C2907	CSHPP7	55/65	450/500		23/153	5/12	25/35	3/5	0.34
12"	8**	6700C2908	CSHPP8	60/70	750/850		50/265	10/14	25/120	3/4	0.41

Cutting Tips

PROPYLENE / REFERENCE GUIDE / LP (PROPANE, NATURAL GAS)

CutSkill Series 1 – Propylene Cutting Tips

CutSkill Series 1 Type MTHP



- High speed machines cutting
- Two-piece
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4"	00	6700C3119	CSMTHP00	85/95	68/75	30/35	23/140	8 oz +	12/65	23/30	0.05
3/8"	00	6700C3119	CSMTHP00	85/95	68/75	30/35	23/140	8 oz +	12/65	22/29	0.05
1/2"	0	6700C3120	CSMTHP0	85/95	110/120	30/35	23/140	8 oz +	12/65	20/28	0.06
3/4"	0	6700C3120	CSMTHP0	85/95	110/120	30/35	23/140	8 oz +	12/65	18/26	0.06
1"	1	6700C3121	CSMTHP1	85/95	145/160	30/35	23/140	8 oz +	12/65	17/24	0.07
1 1/4"	1	6700C3121	CSMTHP1	85/95	145/160	30/35	23/140	8 oz +	12/65	16/20	0.07
1 1/2"	1	6700C3121	CSMTHP1	85/95	145/160	30/35	23/140	8 oz +	12/65	12/16	0.07
2"	2	6700C3122	CSMTHP2	85/95	230/250	30/35	23/140	8 oz +	12/65	11/15	0.09
2 1/2"	2	6700C3122	CSMTHP2	85/95	230/250	30/35	23/140	8 oz +	12/65	10/13	0.09
3"	2	6700C3122	CSMTHP2	85/95	230/250	30/35	23/140	8 oz +	12/65	9/11	0.09
4"	3	6700C3123	CSMTHP3	85/95	285/320	30/35	23/140	8 oz +	12/65	7/10	0.11
5"	3	6700C3123	CSMTHP3	85/95	285/320	30/35	23/140	8 oz +	12/65	6/8	0.11
6"	3	6700C3123	CSMTHP3	85/95	285/320	30/35	23/140	8 oz +	12/65	5/7	0.11
7"	4	6700C3124	CSMTHP4	85/95	390/450	30/35	23/140	8 oz +	12/65	5/6	0.14
8"	4	6700C3124	CSMTHP4	85/95	390/450	30/35	23/140	8 oz +	12/65	4/6	0.14
9"	5	6700C3125	CSMTHP5	85/95	670/720	30/35	23/140	8 oz +	12/65	4/5	0.18
10"	5	6700C3125	CSMTHP5	85/95	670/720	30/35	23/140	8 oz +	12/65	3/5	0.18

CutSkill Series 1 Type 303MP



- General purpose
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
3/8"	0	6700C3037	CS1303MP0	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	6700C3037	CS1303MP0	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	6700C3038	CS1303MP1	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	6700C3039	CS1303MP2	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	6700C3039	CS1303MP2	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	6700C3040	CS1303MP3	40/50	150/175	REFERENCE PREHEAT CHART ON PAGE 94	23/108	5/9	14/18	10/14	0.10
2 1/2"	3	6700C3040	CS1303MP3	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	6700C3041	CS1303MP4	45/50	210/250		23/108	8/12	16/20	8/11	0.12
4"	5	6700C3042	CS1303MP5	45/55	300/360		23/108	8/12	20/30	7/10	0.14
5"	5	6700C3042	CS1303MP5	50/55	330/360		23/108	8/12	20/30	6/9	0.14
6"	6**	6700C3043	CS1303MP6	45/55	400/500		23/153	10/15	25/35	5/7	0.17
8"	6**	6700C3043	CS1303MP6	55/65	450/500		23/153	10/15	25/35	4/6	0.18

CutSkill Series 1 Type 318MP



- Gouging, grooving and rivet washing
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1"	2	6700C2651	CS318MP2	35/40	115/125		44/240	3/6	22/110	14/18	0.09
1 1/2"	2	6700C2651	CS318MP2	40/45	125/135		44/240	4/8	22/110	12/16	0.09
3"	4	6700C2652	CS318MP4	40/50	210/250	REFERENCE PREHEAT CHART ON PAGE 94	44/240	6/9	22/110	8/11	0.12
6"	6**	6700C2653	CS318MP6	45/55	400/500		44/240	6/10	22/110	5/7	0.17
8"	6**	6700C2653	CS318MP6	55/65	450/500		44/240	8/12	22/110	4/6	0.18
12"	8**	6700C2654	CS318MP8	60/70	750/850		50/265	10/14	25/120	3/4	0.41

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.






Clam Shell Packaging

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

CutSkill Series 1–LP Propane/Natural Gas Cutting Tips

LP (Propane/Natural Gas)

Series 1 tip style, fuel gas usage and Victor equipment compatibility shown below.

Type		Fuel Gas	Application
218		LP	<ul style="list-style-type: none"> Deseaming, scarfing, gouging Weld preparation, removing defective welds, washing rivets
GPN		LP	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
GPN-P Plated		LP	<ul style="list-style-type: none"> General purpose Hand and machine torch cutting
MTHN		LP	<ul style="list-style-type: none"> High speed machine cutting through 10" (252 mm)
HPN		LP	<ul style="list-style-type: none"> Heavy preheat for scrap, bevel and other heavy preheat requirements

Handle	Cutting Attachment	Fuel Gas
Cutting Torches		
315FC, H 315FC	CA 2460-90°	All
315FC, H 315FC	CA 2461-75°	All
315FC, H 315FC	CA 2462-180°	All
Straight Torches		
ST 2600FC	–	All
ST 1000FC	–	All
ST 900FC	–	All
*HC 1200C	–	All
*HC 1100C	–	Non-A
Machine Torches		
MT 200	–	A, LP
MT 300	–	A, LP

*Refer also to straight torch section.

Material Thickness – Tip Size

Material Thickness	Tip Size
1/8"	000
1/4"	00
3/8" – 1/2"	0
3/4"	1
1" – 1 1/2"	2
2" – 2 1/2"	3
3"	4
4" – 5"	5
6" – 8"	6*
10"	7*
12"	8*

*For best results, use "High Flow Handles" and 3/8" hose

Preheat Chart for Propylene and LP Tips

Torch Series	Preheat Oxygen (PSIG)	Preheat Fuel (PSIG)
MT 200	--	8 oz. and up
MT 300	30/35	8 oz. and up
ST 2600FC	--	1 PSIG and up
ST 900FC	--	5 PSIG and up
ST 1000FC	--	5 PSIG and up

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Clam Shell Packaging

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

Tip packaging is color coded with reference to fuel gas usage. Other special application tips available. Contact Technical Services at 1-800-426-1888

Cutting Tips

LP (PROPANE, NATURAL GAS)

CutSkill Series 1 – LP Propane/Natural Gas Cutting Tips

CutSkill Series 1 Type 218



- Gouging, grooving, rivet washing
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
3"	4	6700C2682	CS12184	40/50	210/250	REFERENCE PREHEAT CHART ON PAGE 99	44/240	6/9	22/110	8/11	0.12
6"	6**	6700C2683	CS12186	45/55	400/500		44/240	6/10	22/110	5/7	0.17
8"	6**	6700C2683	CS12186	55/65	450/500		44/240	8/12	22/110	4/6	0.18
10"	8**	6700C2684	CS12188	60/70	750/850		50/265	10/14	25/120	3/5	0.41

CutSkill Series 1 Type GPN



- General purpose
- Hand and machine cutting
- Two-piece
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	6700C2468	CSGPN000	20/25	12/14	REFERENCE PREHEAT CHART ON PAGE 99	23/108	3/5	5/6	24/28	0.04
1/4"	00	6700C2469	CSGPN00	20/25	22/26		23/108	3/5	5/7	21/25	0.04
3/8"	0	6700C2470	CSGPN0	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	6700C2470	CSGPN00	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	6700C2471	CSGPN1	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	6700C2472	CSGPN2	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	6700C2472	CSGPN2	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	6700C2473	CSGPN3	40/50	150/175		23/108	5/9	14/18	10/14	0.10
2 1/2"	3	6700C2473	CSGPN3	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	6700C2474	CSGPN4	45/50	210/250		23/108	8/12	16/20	8/11	0.12
4"	5	6700C2475	CSGPN5	45/55	300/360		23/108	8/12	20/30	7/10	0.14
5"	5	6700C2475	CSGPN5	50/55	330/360		23/108	8/12	20/30	6/9	0.14
6"	6**	6700C2476	CSGPN6	45/55	400/500	23/153	10/15	25/35	5/7	0.17	
8"	6**	6700C2476	CSGPN6	55/65	450/500	23/153	10/15	25/35	4/6	0.18	
10"	7**	6700C2477	CSGPN7	55/65	450/500	23/153	8/12	25/35	3/5	0.34	
12"	8**	6700C2478	CSGPN8	60/70	450/500	23/153	10/14	25/35	3/4	0.41	

CutSkill Series 1 Type GPN (Plated)



- General purpose
- Hand and machine cutting
- Two-piece
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	6700C2928	CSGPNP000	20/25	12/14	REFERENCE PREHEAT CHART ON PAGE 99	23/108	3/5	5/6	24/28	0.04
1/4"	00	6700C2929	CSGPNP00	20/25	22/26		23/108	3/5	5/7	21/25	0.04
3/8"	0	6700C2930	CSGPNP0	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	6700C2930	CSGPNP0	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	6700C2931	CSGPNP1	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	6700C2932	CSGPNP2	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	6700C2932	CSGPNP2	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	6700C2933	CSGPNP3	40/50	150/175		23/108	5/9	14/18	10/14	0.10
2 1/2"	3	6700C2933	CSGPNP3	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	6700C2934	CSGPNP4	45/50	210/250		23/108	8/12	16/20	8/11	0.12
4"	5	6700C2935	CSGPNP5	45/55	300/360		23/108	8/12	20/30	7/10	0.14
5"	5	6700C2935	CSGPNP6	50/55	330/360		23/108	8/12	20/30	6/9	0.14
6"	6**	6700C2936	CSGPNP6	45/55	400/500	23/153	10/15	25/35	5/7	0.17	
8"	6**	6700C2936	CSGPNP6	55/65	450/500	23/153	10/15	25/35	4/6	0.18	
10"	7**	6700C2937	CSGPNP7	55/65	450/500	23/153	8/12	25/35	3/5	0.34	
12"	8**	6700C2938	CSGPNP8	60/70	450/500	23/153	10/14	25/35	3/4	0.41	

CUTSKILL

CutSkill Series 1 – LP Propane/Natural Gas Cutting Tips

CutSkill Series 1 Type MTHN



- High speed machine cutting
- Two-piece

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/4"	00	6700C3089	CSMTHN00	85/95	68/75	30/35	23/140	8 oz +	12/65	23/30	0.05
3/8"	00	6700C3089	CSMTHN00	85/95	68/75	30/35	23/140	8 oz +	12/65	22/29	0.05
1/2"	0	6700C3090	CSMTHN0	85/95	110/120	30/35	23/140	8 oz +	12/65	20/28	0.06
3/4"	0	6700C3090	CSMTHN0	85/95	110/120	30/35	23/140	8 oz +	12/65	18/26	0.06
1"	1	6700C3091	CSMTHN1	85/95	145/160	30/35	23/140	8 oz +	12/65	17/24	0.07
1 1/4"	1	6700C3091	CSMTHN1	85/95	145/160	30/35	23/140	8 oz +	12/65	16/20	0.07
1 1/2"	1	6700C3091	CSMTHN1	85/95	145/160	30/35	23/140	8 oz +	12/65	12/16	0.07
2"	2	6700C3092	CSMTHN2	85/95	230/250	30/35	23/140	8 oz +	12/65	11/15	0.09
2 1/2"	2	6700C3092	CSMTHN2	85/95	230/250	30/35	23/140	8 oz +	12/65	10/13	0.09
3"	2	6700C3092	CSMTHN2	85/95	230/250	30/35	23/140	8 oz +	12/65	9/11	0.09
4"	3	6700C3093	CSMTHN3	85/95	285/320	30/35	23/140	8 oz +	12/65	7/10	0.11
5"	3	6700C3093	CSMTHN3	85/95	285/320	30/35	23/140	8 oz +	12/65	6/8	0.11
6"	3	6700C3093	CSMTHN3	85/95	285/320	30/35	23/140	8 oz +	12/65	5/7	0.11
7"	4	6700C3094	CSMTHN4	85/95	390/450	30/35	23/140	8 oz +	12/65	5/6	0.14
8"	4	6700C3094	CSMTHN4	85/95	390/450	30/35	23/140	8 oz +	12/65	4/6	0.14
9"	5	6700C3095	CSMTHN5	85/95	670/720	30/35	23/140	8 oz +	12/65	4/5	0.18
10"	5	6700C3095	CSMTHN5	85/95	670/720	30/35	23/140	8 oz +	12/65	3/5	0.18
--	6**	6700C3096	CSMTHN6	85/95	--	30/35	23/140	8 oz +	12/65	--	--

CutSkill Series 1 Type HPN



- Hand and machine torch cutting
- Heavy preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
3/4"	1	6700C2841	CSHPN1	30/35	70/80		44/240	3/6	22/110	15/20	0.08
1"	2	6700C2842	CSMTHN2	35/40	115/125		44/240	3/6	22/110	14/18	0.09
1 1/2"	2	6700C2842	CSMTHN2	40/45	125/135		44/240	4/8	22/110	12/16	0.09
2"	3	6700C2843	CSMTHN3	40/45	150/175		44/240	4/8	22/110	10/14	0.10
2 1/2"	3	6700C2843	CSMTHN3	45/50	175/200		44/240	5/9	22/110	9/12	0.10
3"	4	6700C2844	CSMTHN4	40/50	210/250		44/240	6/9	22/110	8/11	0.12
4"	5	6700C2845	CSMTHN5	45/55	300/360		44/240	6/9	22/110	7/10	0.14
5"	5	6700C2845	CSMTHN5	50/55	330/360		44/240	6/10	22/110	6/9	0.14
6"	6**	6700C2846	CSMTHN6	45/55	400/500		44/240	6/10	22/110	5/7	0.17
8"	6**	6700C2846	CSMTHN6	55/65	450/500		44/240	8/12	22/110	4/6	0.18
10"	7	6700C2847	CSMTHN7	55/65	450/500		23/153	8/12	25/35	3/5	0.34
12"	8**	6700C2848	CSMTHN8	60/70	750/850		50/265	10/14	25/120	3/4	0.41
15"	10**	6700C2849	CSMTHN10	45/55	1000/1200		50/265	10/16	25/120	2/4	--
18"	12**	6700C2850	CSMTHN12	45/55	1150/1350		60/290	10/16	30/130	2/3	--

Preheat Chart for Propylene and LP Tips

Torch Series	Preheat Oxygen (PSIG)	Preheat Fuel (PSIG)
MT 200	--	8 oz. and up
MT 300	30/35	8 oz. and up
ST 2600FC	--	1 PSIG and up
ST 900FC	--	5 PSIG and up
ST 1000FC	--	5 PSIG and up

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Clam Shell Packaging

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

Cutting Tips

LP (PROPANE, NATURAL GAS) / ACETYLENE, PROPYLENE, LP

CutSkill Professional Series 3 – Cutting Tips

Series 3 tip style, fuel gas usage and Victor equipment compatibility shown below.

Cutting Torches

Handle	Cutting Attachment	Fuel Gas
Heavy Duty		
315FC	CA 2460-90°	All
Medium Duty		
100FC	CA 1350-90°, CA 1351-75°, CA 1352-180°	All
Light Duty		
J-40	CA 1260-90°	All
Straight Torches		
CST 800FC	-	All

Material Thickness – Tip Size

Material Thickness	Tip Size
1/8"	000
1/4"	00
3/8" – 1/2"	0
3/4"	1
1" – 1 1/2"	2
2" – 2 1/2"	3
3"	4
4" – 5"	5

CutSkill Series 3 – Acetylene Cutting Tips

CutSkill Series 3 Type 101



- General purpose
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	6700C2438	CS3101000	20 / 25	20 / 25	3 / 5	3 / 5	3 / 5	3 / 5	28 / 32	.04
1/4"	00	6700C2439	CS310100	20 / 25	30 / 35	3 / 5	4 / 6	3 / 5	4 / 6	27 / 30	.05
3/8"	0	6700C2440	CS31010	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	6700C2440	CS31010	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
3/4"	1	6700C2441	CS31011	30 / 35	80 / 85	4 / 7	9 / 14	3 / 5	8 / 13	17 / 21	.07
1"	2	6700C2442	CS31012	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	6700C2442	CS31012	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09
2"	3	6700C2443	CS31013	40 / 45	210 / 225	5 / 14	15 / 24	4 / 9	14 / 22	12 / 15	.11
2 1/2"	3	6700C2443	CS31013	45 / 50	225 / 240	5 / 16	18 / 29	4 / 10	16 / 26	10 / 13	.11
3"	4	6700C2444	CS31014	40 / 50	270 / 320	6 / 17	20 / 33	5 / 10	18 / 30	9 / 12	.12
4"	5	6700C2445	CS31015	45 / 55	390 / 425	7 / 18	24 / 37	5 / 12	22 / 34	8 / 11	.15
5"	5	6700C2445	CS31015	50 / 55	425 / 450	7 / 20	29 / 41	5 / 13	26 / 38	7 / 9	.15

CutSkill Series 3 Type 118 (Round)



- Gouging, grooving, rivet washing
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Acetylene (PSIG)	Acetylene **** (SCFH)	Speed I.P.M.	Kerf Width
3/8"	0	6700C2730	CS31180	25 / 30	55 / 60	3 / 5	5 / 9	3 / 5	5 / 8	24 / 28	.06
1/2"	0	6700C2730	CS31180	30 / 35	60 / 65	3 / 6	7 / 11	3 / 5	6 / 10	20 / 24	.06
1"	2	6700C2731	CS31182	35 / 40	140 / 150	4 / 9	11 / 18	3 / 6	10 / 16	15 / 19	.09
1 1/2"	2	6700C2731	CS31182	40 / 45	150 / 160	4 / 12	13 / 20	3 / 7	12 / 18	13 / 17	.09

Data compiled using mild steel as test material.

* Applicable for three hose machine torch only. With a two hose cutting torch, preheat pressure is set by the cutting oxygen.

** For best results use ST2600FC 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 tip size 6 and larger.

**** Oxygen consumption is 1.1 times the acetylene under neutral flame conditions.

Clam Shell Packaging

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

CutSkill Series 3 – Propylene Cutting Tips

CutSkill Series 3 Type GPP



- General purpose
- Two-piece
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	6700C2618	CS3GPP000	20/25	12/14	REFERENCE PREHEAT CHART BELOW	23/108	3/5	5/6	24/28	0.04
1/4"	00	6700C2619	CS3GPP00	20/25	22/26		23/108	3/5	5/7	21/25	0.04
3/8"	0	6700C2620	CS3GPP0	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	6700C2620	CS3GPP0	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	6700C2621	CS3GPP1	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	6700C2622	CS3GPP2	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	6700C2622	CS3GPP2	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	6700C2623	CS3GPP3	40/45	150/175		23/108	5/9	14/18	10/14	0.10
2 1/2"	3	6700C2623	CS3GPP3	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	6700C2624	CS3GPP4	45/50	210/250		23/108	8/12	16/20	8/11	0.12

CutSkill Series 3 Type 318MP



- General purpose
- Gouging and rivet washing

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1"	2	6700C2660	CS3318MP2	35/40	115/125	REFERENCE PREHEAT CHART BELOW	44/240	3/6	22/110	14/18	0.09
1 1/2"	2	6700C2660	CS3318MP2	40/45	125/135		44/240	4/8	22/110	12/16	0.09
3"	4	6700C2662	CS3318MP4	40/50	210/250		44/240	6/9	22/110	8/11	0.12
6"	6**	6700C2664	CS3318MP6	45/55	400/500		44/240	6/10	22/110	5/7	0.17
8"	6**	6700C2664	CS3318MP6	55/65	450/500		44/240	8/12	22/110	4/6	0.18
12"	8**	6700C2666	CS3318MP8	60/70	750/850		50/265	10/14	25/120	3/4	0.41

CutSkill Series 3 – LP Propane/Natural Gas Cutting Tips

CutSkill Series 3 Type GPN



- General purpose
- Two-piece
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Cutting Oxygen *** (PSIG)	Cutting Oxygen (SCFH)	Preheat Oxygen * (PSIG)	Preheat Oxygen (SCFH)	Fuel (PSIG)	Fuel **** (SCFH)	Speed I.P.M.	Kerf Width
1/8"	000	6700C2498	CS3GPN000	20/25	12/14	REFERENCE PREHEAT CHART BELOW	23/108	3/5	5/6	24/28	0.04
1/4"	00	6700C2499	CS3GPN00	20/25	22/26		23/108	3/5	5/7	21/25	0.04
3/8"	0	6700C2500	CS3GPN0	25/30	45/55		23/108	3/5	8/10	20/24	0.06
1/2"	0	6700C2500	CS3GPN0	30/35	50/55		23/108	3/5	8/10	18/22	0.06
3/4"	1	6700C2501	CS3GPN1	30/35	70/80		23/108	4/6	10/12	15/20	0.08
1"	2	6700C2502	CS3GPN2	35/40	115/125		23/108	4/8	12/15	14/18	0.09
1 1/2"	2	6700C2502	CS3GPN2	40/45	125/135		23/108	5/9	12/15	12/16	0.09
2"	3	6700C2503	CS3GPN3	40/50	150/175		23/108	5/9	14/18	10/14	0.10
2 1/2"	3	6700C2503	CS3GPN3	45/50	175/200		23/108	6/10	14/18	9/12	0.10
3"	4	6700C2504	CS3GPN4	45/50	210/250		23/108	8/12	16/20	8/11	0.12
4"	5	6700C2505	CS3GPN5	45/55	300/360		23/108	8/12	20/30	7/10	0.14
5"	5	6700C2505	CS3GPN5	50/55	330/360	23/108	8/12	20/30	6/9	0.14	

Preheat Chart for Propylene and LP Tips

Torch Series	Preheat Oxygen (PSIG)	Preheat Fuel (PSIG)
MT 200	--	8 oz. and up
MT 300	30/35	8 oz. and up
ST 2600FC	--	1 PSIG and up
ST 900FC	--	5 PSIG and up
ST 1000FC	--	5 PSIG and up

Cutting Tips

OEM STYLE OPERATIONAL CHARTS

Airco® Cutting Tips

Airco – Style Type 144 Acetylene



- General purpose
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Drill Size	Oxygen Pressure (PSIG)	Oxygen Pressure (SCHF)	Acetylene (PSIG)	Acetylene (SCFH)	Speed I.P.M.
1/8"	00	6700C1009	CS144 00	69	30	33	1.5	11	21-24
1/4"	0	6700C1010	CS144 0	64	30	57	2	14	20-23
3/8"	1	6700C1011	CS144 1	57	30	84	3	20	18-21
3/4"	2	6700C1012	CS144 2	55	40	134	3	22	14-17
1 1/2"	3	6700C1013	CS144 3	53	45	190	3	23	11-14
2 1/2"	4	6700C1014	CS144 4	50	50	263	3	25	8-11
3"	5	6700C1015	CS144 5	47	45	313	4	31	7-10
5"	6	6700C1016	CS144 6	42	50	457	5	43	5-7
6 - 8"	8	6700C1018	CS144 8	35	50	550	7	45	5-6

Airco – Style Type 164 Acetylene



- Special application
- Heavy preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Drill Size	Oxygen Pressure (PSIG)	Oxygen Pressure (SCHF)	Fuel (PSIG)	Fuel (SCFH)	Speed I.P.M.
1/8"	00	6700C1039	CS164 00	69	25	33	1 1/2	13	22-26
5/16"	0	6700C1040	CS164 0	64	30	60	2	17	20-24
1/2"	1	6700C1041	CS164 1	57	40	105	3	25	17-20
1"	2	6700C1042	CS164 2	55	50	160	3	27	14-16
1 3/4"	3	6700C1043	CS164 3	53	50	210	3	29	11-15
2 1/2"	4	6700C1044	CS164 4	50	50	275	3	31	9-13
4"	5	6700C1045	CS164 5	47	60	400	4	45	7-10
6"	6	6700C1046	CS164 6	42	55	505	5	52	5-8
8"	7	6700C1047	CS164 7	36	60	680	6	70	4-6
10"	8	6700C1048	CS164 8	1/8	55	760	6	70	3 1/2 - 5
12"	10	6700C1049	CS164 10	19	65	950	10	70	3-5

Airco – Style Type 245 (A-FS) Propylene



- Two-piece
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Drill Size	Oxygen Pressure (PSIG)	Oxygen Pressure (SCHF)	Fuel (PSIG)	Fuel (SCFH)	Speed I.P.M.
3/16"	00	6700C1139	CS245 00	69	55	52	2-3	6-8	.05
1/4"	0	6700C1140	CS145 0	64	40	57	2-3	6-8	18-20
1/2"	1	6700C1141	CS245 1	57	50	98	3-4	7-10	15-19
3/4"	2	6700C1142	CS245 2	55	50	134	3-4	7-10	.09
1 1/4"	3	6700C1143	CS245 3	53	50	192	4-5	10-14	12-15
2 1/2"	4	6700C1144	CS245 4	50	50	250	4-5	10-14	9-12
3"	5	6700C1145	CS245 5	47	50	335	5-6	14-18	7-10
6"	6	6700C1146	CS245 6	42	60	584	6-7	14-18	6-7
10"	7	6700C1147	CS245 7	35	65	890	7-8	18-20	3-5
14"	8	6700C1148	CS245 8	30	70	1240	7-8	18-20	3-4

Airco is a registered trademark of Control Corps of America.

Airco is in no way affiliated with Victor CutSkill or Thermadyne Industries, Inc. The parts advertised for sale are not genuine manufacturer parts, but are parts made for and by Victor CutSkill and Thermadyne Industries, Inc. Reference to Airco products are for your convenience only. We reserve the right to substitute genuine manufacturer parts in place of Victor CutSkill parts.

U.S. Customer Care: 1-800-426-1888 / FAX 1-800-535-0557
Canada Customer Care: 1-905-827-4515 / FAX 1-800-588-1714

Harris® Cutting Tips

Harris – Style Type 6290 Acetylene



- General purpose
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Drill Size	Cutting Oxygen (PSIG)	Oxygen Pressure (SCHF)	Acetylene (PSIG)	Acetylene (SCFH)	Speed I.P.M.
Light to 3/16"	000	6700C1428	CS2629 000	68	15-20	20-25	3-5	3-5	25-30
3/8 - 3/16"	00	6700C1429	CS62690 00	64	20-25	30-35	3-5	4-6	25-30
3/16 - 5/8"	0	6700C1430	CS6290 0	60	35-40	60-65	3-5	5-8	24-28
5/8 - 1"	1	6700C1431	CS6290 1	56	35-40	75-85	3-5	6-10	20-24
1 - 2"	2	6700C1432	CS6290 2	54	40-45	160-175	3-7	8-13	17-21
2 - 3"	3	6700C1433	CS6290 3	48	45-50	250-270	4-10	10-16	12-15
4 - 6"	4	6700C1434	CS6290 4	42	50-75	425-575	5-10	16-26	9-12
6 - 8"	5	6700C1435	CS6290 5	35	65-80	650-800	5-12	22-34	8-11
8 - 12"	6	6700C1436	CS6290 6	30	70-90	900-1100	5-13	26-38	5-6

Harris – Style Type 6290 GG LP Gas



- Special application
- Heavy preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Drill Size	Cutting Oxygen (PSIG)	Oxygen Pressure (SCHF)	Fuel (PSIG)	Fuel (SCFH)	Speed I.P.M.
1/8 - 1/4"	1	6700C1551	CS6290GG 1	56	35	85	4-6	10-12	--
3/16 - 3/8"	2	6700C1552	CS6290GG 2	54	50	175	5-9	12-15	--
1/4 - 1/2"	3	6700C1533	CS6290GG 3	48	50	270	6-10	14-18	--

Harris – Style Type 6290 NX LP Gas



- Two-piece
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Drill Size	Cutting Oxygen (PSIG)	Oxygen Pressure (SCHF)	Fuel Pressure (PSIG)	Fuel (SCFH)	Speed I.P.M.
3/16 - 3/8"	00	6700C1509	CS6290NX 00	64	20-30	30-40	35	8	--
3/8 - 5/8"	0	6700C1510	CS6290NX 0	60	30-40	56-65	35	8	--
5/8 - 1"	1	6700C1511	CS6290NX 1	56	35-40	75-100	35	8	--
1 - 2"	2	6700C1512	CS6290NX 2	52	40-55	160-210	40	10	--
2 - 3"	3	6700C1513	CS6290NX 3	48	45-60	250-325	40	10	--
3 - 6"	4	6700C1514	CS6290NX 4	42	50-75	425-575	50	12	--
6 - 8"	5	6700C1515	CS6290NX 5	35	65-80	650-800	60	15	--
8 - 12"	6	6700C1516	CS6290NX 6	30	70-90	900-1100	70	17	--

Harris is a registered trademark of the Lincoln Electric Company.

Harris is in no way affiliated with Victor CutSkill or Thermadyne Industries, Inc. The parts advertised for sale are not genuine manufacturer parts, but are parts made for and by Victor CutSkill and Thermadyne Industries, Inc. Reference to Harris products are for your convenience only. We reserve the right to substitute genuine manufacturer parts in place of Victor CutSkill parts.

Cutting Tips

OEM STYLE OPERATIONAL CHARTS

Smith® Cutting Tips

Smith – Style SC-12 Acetylene



- General purpose
- Hand and machine cutting
- Medium preheat

Metal Thickness (Inches)	Size	Part Number	Model Number	Drill Size	Oxygen Pressure (PSIG)	Oxygen Pressure (SCFH)	Acetylene (PSIG)	Acetylene (SCFH)	Speed I.P.M.
Light	000	6700C2188	CSSC12 000	70	20	24	10	6.5	24
3/16"	00	6700C2189	CSSC12 00	68	20	24	10	6.5	26
1/4 - 3/8"	0	6700C2190	CSSC12 0	62	30-35	40-50	10	7	20-22
1/2 - 5/8"	1	6700C2191	CSSC12 1	56	35-45	75-85	10	9.5	17-19
3/4 - 1 1/4"	2	6700C2192	CSSC12 2	54	35-50	105-135	10	10.5	13-16
1 1/2 - 2"	3	6700C2193	CSSC12 3	51	40-45	170-180	10	12	10-12
2 1/2 - 4"	4	6700C2197	CSSC12 4	45	35-50	240-315	10	13-14	7-9
5 - 6"	5	6700C2195	CSSC12 5	41	50-70	420-550	10	26	5.5-7
10 - 12"	6	6700C2196	CSSC12 6	32	70-90	750-975	10	28	4.5-5
12"	7	6700C2197	CSSC12 7	30	70-90	850-975	10	28	4.5

Smith – Style Type SC-50 LP Gas



- Special application
- Scrap cutting and beveling
- Heavy preheat
- Two-piece

Metal Thickness (Inches)	Size	Part Number	Model Number	Drill Size	Oxygen Pressure (PSIG)	Oxygen Pressure (SCFH)	Fuel (PSIG)	Fuel (SCFH)	Speed I.P.M.
3/16"	00	6700C2249	CSSC50 00	68	25	12-14	3-5	5-6	23-27
1/4 - 3/8"	0	6700C2250	CSSC50 0	62	30-35	40-50	3-5	5-7	20-22
1/2 - 5/8"	1	6700C2251	CSSC50 1	56	35-40	75-85	3-5	8-10	17-19
3/4 - 1 1/4"	2	6700C2252	CSSC50 2	54	35-50	105-135	4-8	8-10	13-16
1 1/2 - 2"	3	6700C2253	CSSC50 3	51	40-45	170-180	5-9	10-12	10-12
2 1/2 - 4"	4	6700C2254	CSSC50 4	45	35-50	240-315	8-12	12-15	7-9
5 - 8"	5	6700C2255	CSSC50 5	41	50-70	420-550	8-12	12-15	5-7
10 - 12"	6	6700C2256	CSSC50 6	32	70-90	750-975	8-12	14-18	4.5-5
14"	7	6700C2257	CSSC50 7	28	90	1250	8-12	20-30	4.0
16 - 18"	8	6700C2258	CSSC50 8	17	90	1500-1800	10-15	25-35	3.5
20"	9	6700C2259	CSSC50 9	3	90	2150	10-15	25-35	3.0

Smith – Style Type SC-60 Propylene



- General purpose
- Hand and machine cutting
- Medium preheat
- Two-piece

Metal Thickness (Inches)	Size	Part Number	Model Number	Drill Size	Oxygen Pressure (PSIG)	Oxygen Pressure (SCFH)	Fuel (PSIG)	Fuel (SCFH)	Speed I.P.M.
1/8"	00	6700C2309	CSSC60 00	68	20-25	12-14	3-5	5-6	23-27
1/4 - 3/8"	0	6700C2310	CSSC60 0	62	30-35	40-50	3-5	8-10	20-22
1/2 - 5/8"	1	6700C2311	CSSC60 1	56	35-40	75-85	4-6	10-12	17-19
3/4 - 1 1/2"	2	6700C2312	CSSC60 2	54	35-50	105-135	4-8	12-15	13-16
1 1/2 - 2"	3	6700C2313	CSSC60 3	51	40-45	170-180	6-10	14-18	10-12
2 1/2 - 4"	4	6700C2314	CSSC60 4	45	35-50	240-315	8-12	16-20	7-9
5 - 8"	5	6700C2315	CSSC60 5	41	50-70	420-550	8-12	20-30	5-7
10 - 12"	6	6700C2316	CSSC60 6	32	70-90	750-975	10-15	25-35	4.5-5

Smith is a registered trademark of Smith Equipment Manufacturing Co.

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U.S. Customer Care: 1-800-426-1888 / FAX 1-800-535-0557
Canada Customer Care: 1-905-827-4515 / FAX 1-800-588-1714

Not Just Safe. Victor Safe.

Follow these rules for maximum safety on the job.



1-800-426-1888
www.victorequip.com



1 Read operating instructions carefully before using equipment. A guide to safe operation is included in all Victor outfits.



2 Always keep cylinders securely chained. Keep valve caps on when not in use.



3 Inspect regulator inlet and cylinder valve for any evidence of oil or grease. If oil or grease is found – do not use regulator!



4 Stand to the side when opening the cylinder valve. Always open the valve slowly and carefully.



5 Always use flashback arrestors and reverse flow check valves when operating gas equipment.



6 Carefully inspect torch connections for damaged or missing "O" rings.



7 Always purge the system before lighting the torch. Use tip charts when setting operating pressure.



8 Wear protective clothing. Insure proper ventilation. Always keep sparks away from combustibles.

Gold Warranty

LIMITED WARRANTY / CUSTOMER CARE

LIMITED WARRANTY: THERMADYNE® warrants that its products will be free of defects in workmanship or material. Should any failure to conform to this warranty appear within the time period applicable to the THERMADYNE® products as stated below, THERMADYNE® shall, upon notification thereof and substantiation that the product has been stored, installed, operated, and maintained in accordance with THERMADYNE®'s specifications, instructions, recommendations and recognized standard industry practice, and not subject to misuse, repair, neglect, alteration, or accident, correct such defects by suitable repair or replacement, at THERMADYNE®'s sole option, of any components or parts of the product determined by THERMADYNE® to be defective.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

LIMITATION OF LIABILITY: THERMADYNE® shall not under any circumstances be liable for special or consequential damages, such as, but not limited to, damage or loss of purchased or replacement goods, or claims of customers of distributor (hereinafter "Purchaser") for service interruption.

The remedies of the Purchaser set forth herein are exclusive and the liability of THERMADYNE® with respect to any contract, or anything done in connection therewith such as the performance or breach thereof, or from the manufacture, sale, delivery, resale, or use of any goods covered by or furnished by THERMADYNE® whether arising out of contract, negligence, strict tort, or under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the goods upon which such liability is based.

THIS WARRANTY BECOMES INVALID IF REPLACEMENT PARTS OR ACCESSORIES ARE USED WHICH MAY IMPAIR THE SAFETY OR PERFORMANCE OF ANY THERMADYNE® PRODUCT.

THIS WARRANTY IS INVALID IF THE PRODUCT IS SOLD BY NON-AUTHORIZED PERSONS.

The warranty is effective for the time stated below beginning on the date that the authorized distributor delivers the products to the Purchaser. Notwithstanding the foregoing, in no event shall the warranty period extend more than the time stated plus 1 year from the date THERMADYNE® delivered the product to the authorized distributor.



1 YEAR PARTS AND LABOR UNLESS SPECIFIED

QRC-2000 Nozzle Cleaning Stations
TC and TCV Water Coolers (No Labor)
TSC-96 Smoke Collector (No Labor)
ESG-1, EPG-CR1, CR2 Control
Boxes for Spool & Pull Guns (No Labor)
Professional Eliminator® Spool Guns (No Labor)
Arcair® N6000 (No Labor)

180 DAYS PARTS / NO LABOR

Professional MIG Guns (i.e. PulseMaster™ MIG Guns & PullMaster™, Spray Master™, Eliminator®, Supra, Professional No. #, SEFC, etc)

90 DAYS PARTS AND LABOR UNLESS SPECIFIED

Robotic Deflection Mounts
QRM-1 and QRM-2 Anti-Spatter Applicator

30 DAYS PARTS / NO LABOR

All other products including:
Weldskill® MIG and Spool Guns (No Labor)
(from the date sold by authorized distributor to purchaser)



5 YEARS PARTS / NO LABOR

Victor® Slimlite Medical
Victor® Professional

3 YEARS PARTS / NO LABOR

TurboTorch®

2 YEARS PARTS / NO LABOR

CutSkill®, Oxygen Conservers, Victor® VSP,
HP&I Brass regulators/manifolds
All other Victor® Medical product

1 YEARS PARTS / NO LABOR

FirePower®
Steel Cylinders, Cutting Machine Motors (i.e. VCM 200)
HP&I Stainless regulators/manifolds
Parts in Rental Applications
(from the date sold by seller to authorized distributor)

90 DAYS PARTS / NO LABOR

HP&I Corrosive Gas Regulators/Manifolds

Contact your **STOODY** representative for warranty information on this product

Thermadyne limited warranty shall not apply to: Consumable Parts for MIG, TIG, Plasma welding, Plasma cutting and Oxy fuel torches, O-rings, fuses, filters or other parts that fail due normal wear

* Warranty repairs or replacement claims under this limited warranty must be submitted by an authorized THERMADYNE® repair facility within thirty (30) days of the repair.

* No employee, agent, or representative of THERMADYNE® is authorized to change this warranty in any way or grant any other warranty, and THERMADYNE® shall not be bound by any such attempt. Correction of non-conformities, in the manner and time provided herein, constitutes fulfillment of THERMADYNE®'s obligations to purchaser with respect to the product.

* This warranty is void, and seller bears no liability hereunder, if purchaser used replacement parts or accessories which, in THERMADYNE®'s sole judgment, impaired the safety or performance of any THERMADYNE® product. Purchaser's rights under this warranty are void if the product is sold to purchaser by unauthorized persons.



4 YEARS PARTS AND LABOR

CutMaster TRUE

2 YEARS PARTS / 1 YEAR LABOR

DragGun Plus, PAK 200, PAK 45
AutoCut and UltraCut

1 YEAR PARTS AND LABOR UNLESS SPECIFIED

AirCut 15, CutSkill® units,
Water recirculators
Stand Off Controls, Remote Controls, other Consols
1Torch, Surelok, XT300 / XT301 and Maximizer torches

180 DAYS PARTS AND LABOR UNLESS SPECIFIED

All other "Torch and Leads" Packages

90 DAYS PARTS / NO LABOR

Replacement repair parts



5 YEARS PARTS* / 3 YEARS LABOR

ArcMaster, Excelarc, Fabricator, Fabstar, PowerMaster
Portafeed, Ultrafeed, Ultima 150, WC 100B
* 5 years on the Original Main Power Transformer and Inductors
not mounted on PCBoards.
* 3 years on Power Supply Components

2 YEARS PARTS AND LABOR UNLESS SPECIFIED

Auto-Darkening Welding Helmet (electronic Lens),
** 1 Month Harness Assy
Victor Regulator for Fabricator 181i (No labor)

1 YEARS PARTS AND LABOR UNLESS SPECIFIED

95S, Water recirculators
All Plasma Welding consols (i.e WC-1 Controller, WT Timer,
WF-100 Capstain Feeder, etc)

180 DAYS PARTS AND LABOR UNLESS SPECIFIED

Plasma Welding Torch and leads packages
Gas Regulators "Supplied with power sources" (No Labor)

90 DAYS PARTS / NO LABOR

Remote Controls
MIG and TIG Torches (Supplied with power sources)
Replacement repair parts

30 DAYS PARTS / NO LABOR

MIG Torch for Fabricator 181i

5-2-1 YEARS PARTS / NO LABOR

FirePower® Welders

THE AMERICAS

Denton, TX USA

U.S. Customer Care

Ph: 1-800-426-1888 (tollfree)

Fax: 1-800-535-0557 (tollfree)

International Customer Care

Ph: 1-940-381-1212

Fax: 1-940-483-8178

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Sales Office, Latin America

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