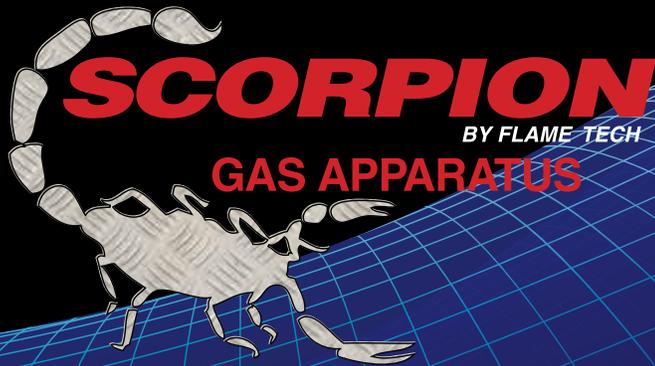
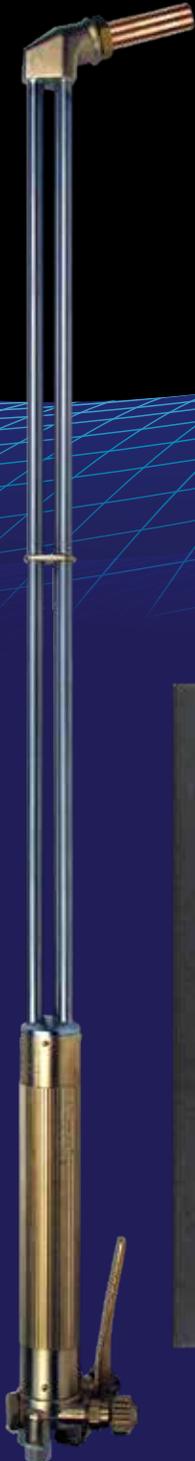


FLAME TECH[®]



SCORPION BY FLAME TECH GAS APPARATUS



STEEL INDUSTRY PRODUCTS CATALOG

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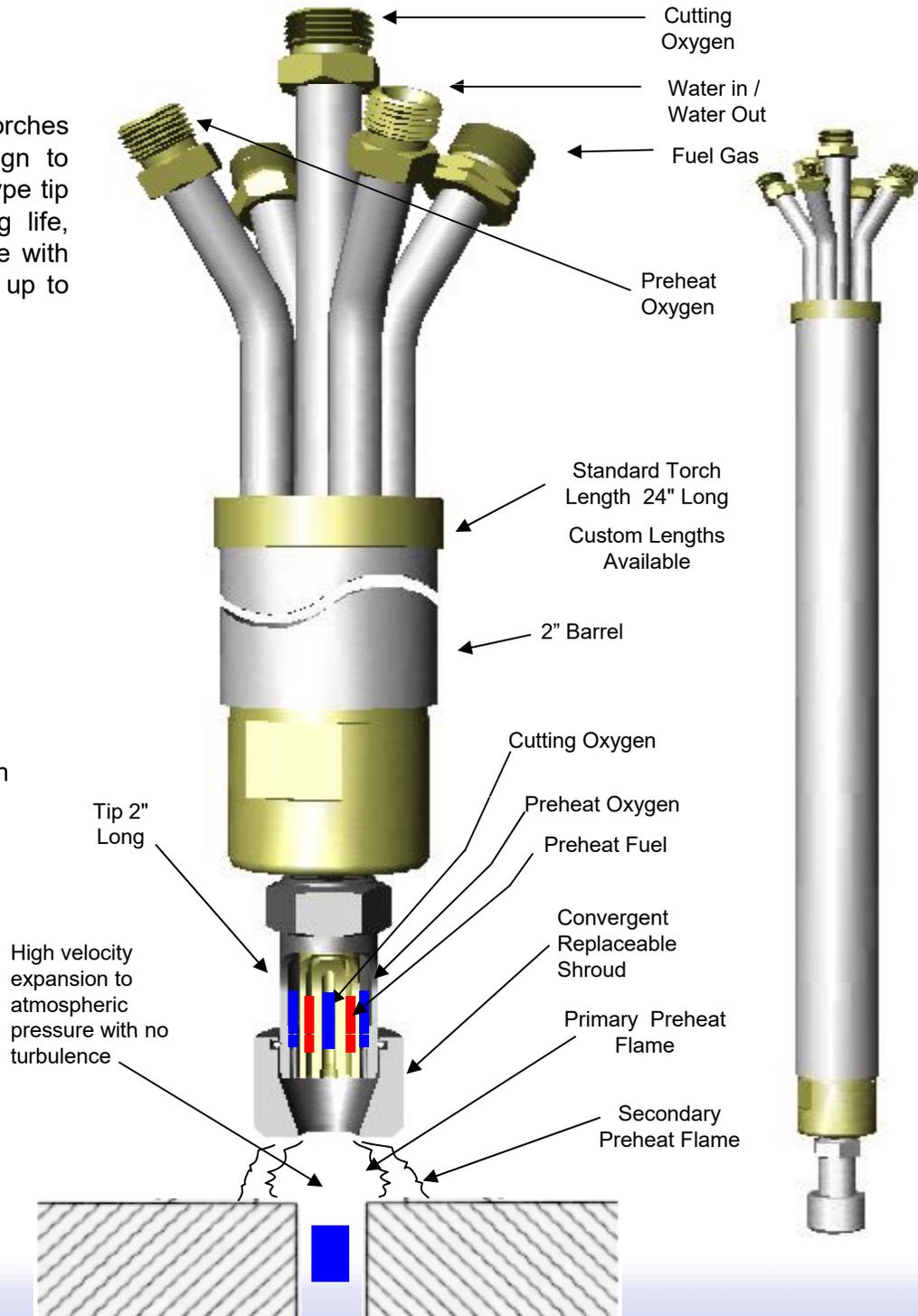
Machine Torches & Nozzles

EM 2600 (EXTERNAL MIX) TORCHES & NOZZLES HIGH VOLUME, WATER COOLED, CASTER MACHINE TORCH

The **FLAME TECH® EM (External Mix)** torches and tips are of a completely new design to increase productivity. The **External Mix** type tip assures safety, high quality cutting, long life, ease of operation and economy. For use with propane or natural gas, cutting materials up to 22+ inches thick

OUTSTANDING FEATURES

- **Safe – No Flash Back**
External mixing eliminates any possibility of flash-back
- **Cool Running – No Overheating**
External mixing is engineered to run cool when cutting.
- **Extra Stand-Off Distance**
Conventional stand-off is less than 2" With EM (External Mix). 3" to 6" is common.
- **High Quality Cutting Surface**
Minimal slag – straight cut – square top.
- **Highly Energy Efficient**
Oxygen shielding of the fuel gas reduces consumption
- **Available With Protective Replaceable Nozzle Shroud**
Protective shroud for cooler, enhanced operation
- **Available In Air-Cooled and Water-Cooled Models**

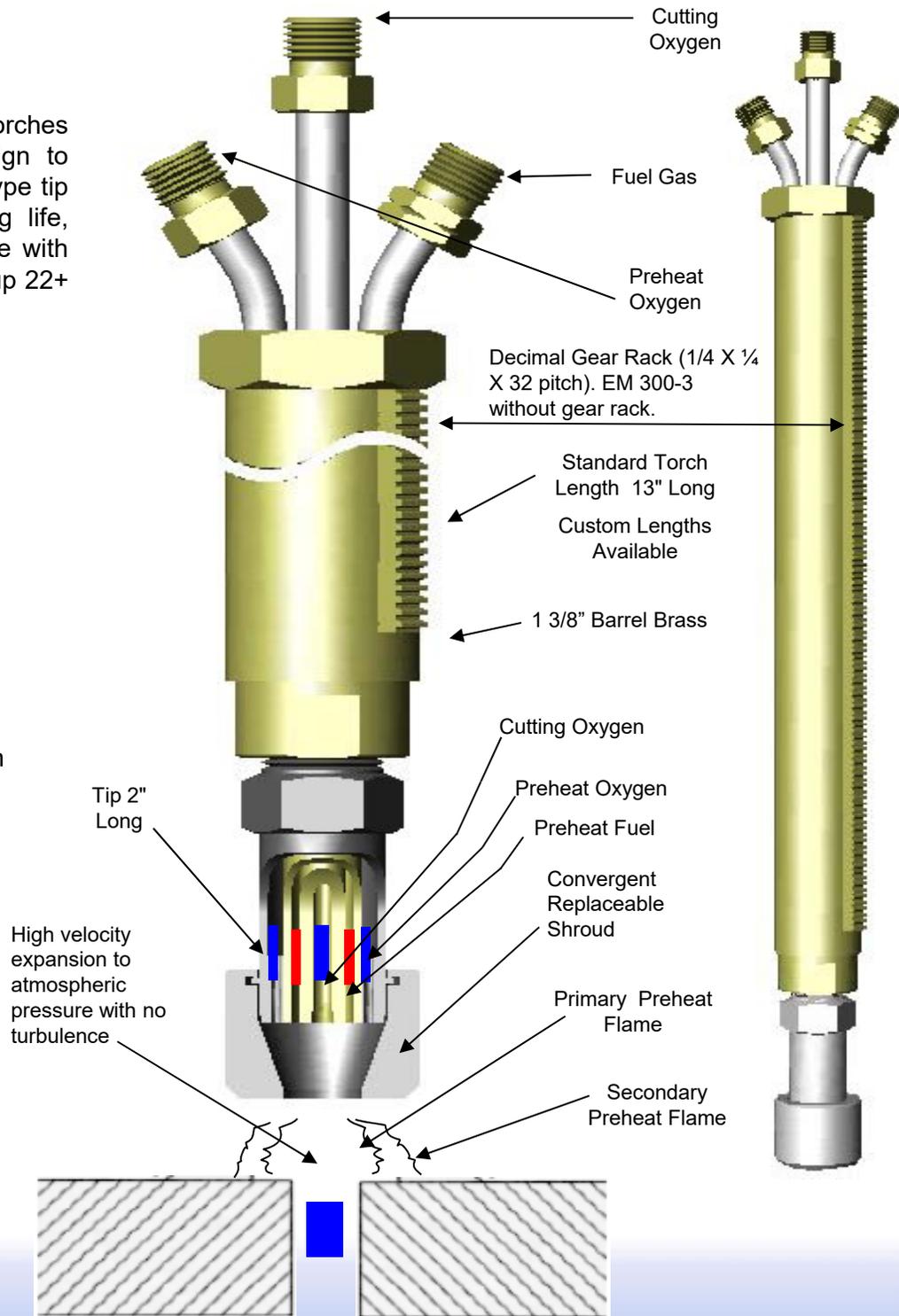


**EM 300-2 (EXTERNAL MIX) TORCHES & NOZZLES
HIGH VOLUME, AIR COOLED, CASTER MACHINE TORCH**

The **FLAME TECH EM (External Mix)** torches and tips are of a completely new design to increase productivity. The **External Mix** type tip assures safety, high quality cutting, long life, ease of operation and economy. For use with propane or natural gas, cutting materials up 22+ inches thick

OUTSTANDING FEATURES

- **Safe – No Flash Back**
External mixing eliminates any possibility of flash-back
- **Cool Running – No Overheating**
External mixing is engineered to run cool when cutting.
- **Extra Stand-Off Distance**
Conventional stand-off is less than 2" With EM (External Mix). 3" to 6" is common.
- **High Quality Cutting Surface**
Minimal slag – straight cut – square top.
- **Highly Energy Efficient**
Oxygen shielding of the fuel gas reduces consumption
- **Available With Protective Replaceable Nozzle Shroud**
Protective shroud for cooler, enhanced operation
- **Available in Air-Cooled and Water-Cooled Models**



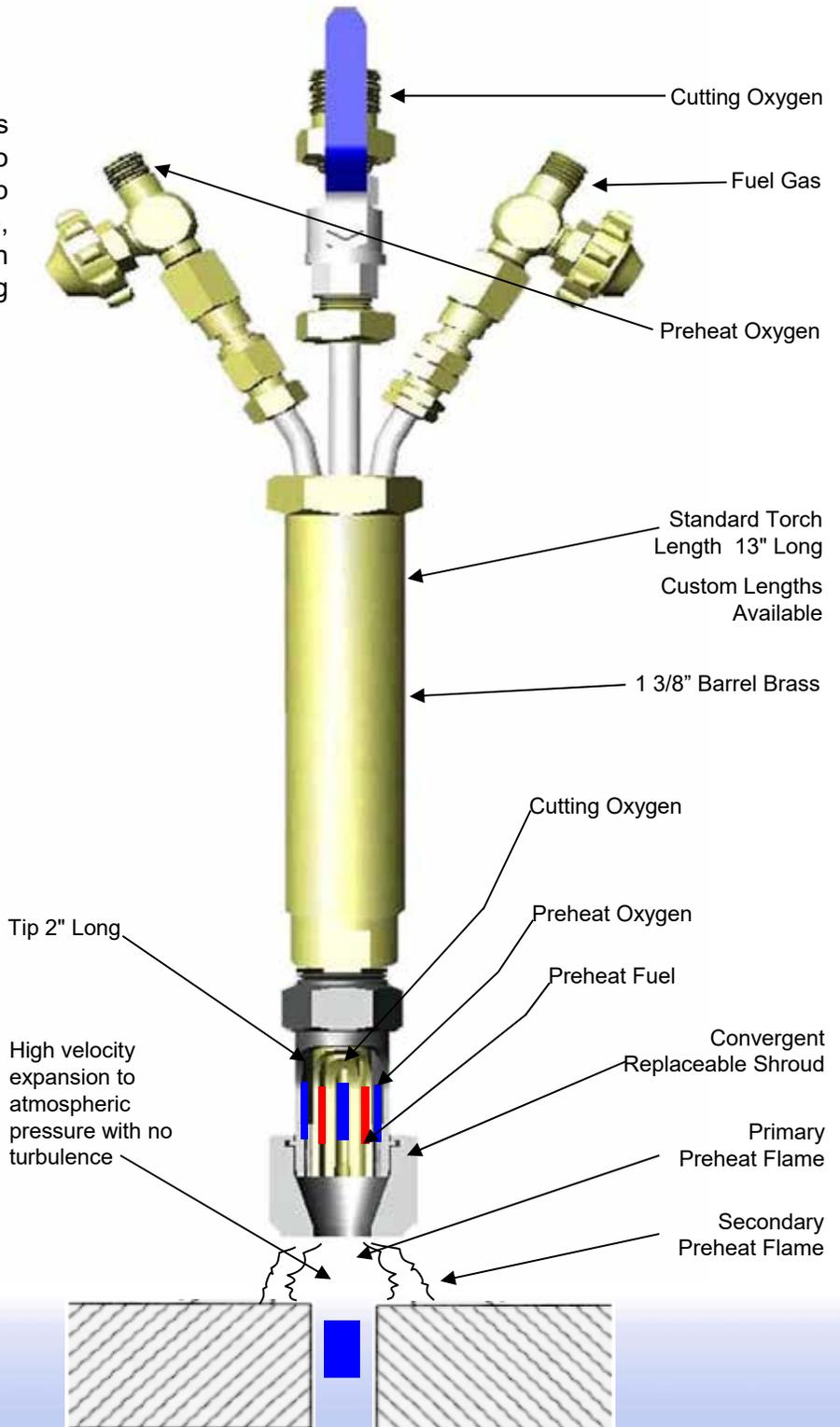


EM-300-4C (EXTERNAL MIX) TORCHES & NOZZLES HIGH VOLUME, AIR COOLED TORCH, STRAIGHT & BEVEL CUTTING

The **FLAME TECH EM® (External Mix)** torches and tips are of a completely new design to increase productivity. The **External Mix** type tip assures safety, high quality cutting, long life, ease of operation and economy. For use with propane, propylene or natural gas, cutting materials up 22+ inches thick

OUTSTANDING FEATURES

- **Safe – No Flash Back**
External mixing eliminates any possibility of flash-back
- **Cool Running – No Overheating**
External mixing is engineered to run cool when cutting.
- **Extra Stand-Off Distance**
Conventional stand-off is less than 2" With EM (External Mix). 5" to 6" is common.
- **High Quality Cutting Surface**
Minimal slag – straight cut – square top.
- **Highly Energy Efficient**
Oxygen shielding of the fuel gas reduces consumption
- **Available With Protective Replaceable Nozzle Shroud**
Protective shroud for cooler, enhanced operation



EM (EXTERNAL MIX) MACHINE TORCHES

- EM 300-1** High volume, air-cooled, machine torch for use with the EM tips, with Metric gear rack.
- EM 300-2** Same as EM300-1, with U.S. Imperial gear rack (1/4 x 1/4 x 32 pitch), for use with most U.S. domestic torch holders.
- EM 300-3** Same as EM 300-1, with no gear rack, for most steel mill, hot billet, cutting, applications.
- EM 600-3** Water cooled, no gear rack. Standard torch length is 13"—custom lengths available.
- EM 2600** High volume, water-cooled, machine torch 2" (50mm) Barrel for use with the EM tips. Standard torch length is 24"—custom lengths available.

EM (EXTERNAL MIX) TIPS

- EM-XXX** Two (2) piece natural gas - propane tip with external mixing design for thick plate and hot billet cutting. Available in sizes 100, 200, 300, 600, 800 & 900. (Ex.: EM-800)
- ES-2 & ES-3** Snap-on shrouds for EM nozzles.

EM NOZZLE OPERATIONAL AND PERFORMANCE DATA

Metal Thickness (Inches)		Nozzle Size	Cutting Oxygen		Pre-Heat Oxygen		Natural Gas		Speed (in/min)		Kerf Width*
Cold Steel	Hot Steel		EM-XXX	PSI	CFH	PSI	CFH	PSI	CFH	COLD	
2-4		100	90	750	10	700	20	600	14		.190
4-6		100	140	900	15	800	25	700	10		.190
4-6		200	130	1200	15	800	25	700	12		.220
	4-6	100	110	850	15	800	25	700		12	.200
	4-6	200	110	1000	15	800	25	700		16	.220
6-8		200	130	1200	15	900	30	800	10		.225
	6-8	200	110	1000	15	900	30	800		12	.235
	6-8	300	100	1400	15	900	30	800		14	.275
8-10		200	110	1200	15	900	30	800	8		.250
8-10		300	120	1700	15	900	30	800	10		.295
	8-10	200	140	1300	15	900	30	800		10	.260
	8-10	300	110	1600	15	900	30	800		12	.310
10-14		300	120	1900	15	1100	35	950	6		.325
	10-14	300	120	1700	15	900	35	950		8	.325
14-18+		600	130	2600	15	1100	35	950	4		.375
	14-22+	600	130	2600	15	1100	35	950		6	.375
30+	30+**	900	150	3200	15	1200	35	1050			

* Kerf width measured when used with ES-2 converging shroud.
Bottom surface of ES-2 shroud should be 5-6 inches above top surface of billet.

** Use ES-3 shroud with EM-900 nozzle.

SMFT TORCH & SMFN (L) NOZZLE

(GEGA® COMPATIBLE SB-500F SERIES) & (GEGA® COMPATIBLE SDS SERIES)

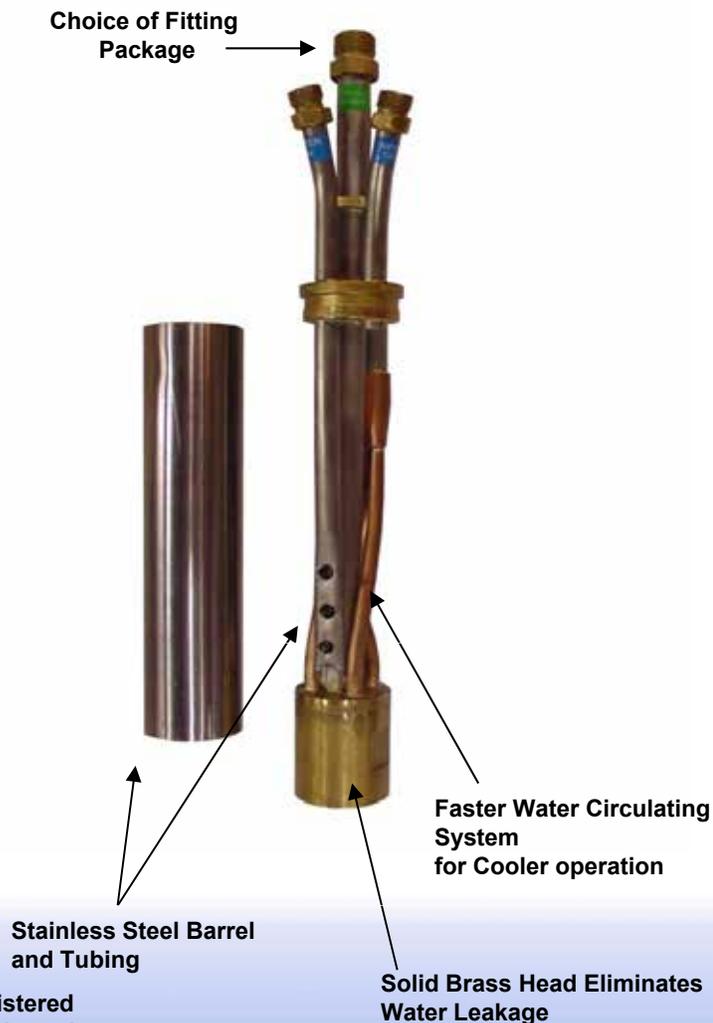
SMFT TORCH (COMPATIBLE REPLACEMENT FOR GEGA® SB-500F)

FLAME TECH'S SMFT (Steel Mill FlatTorch) is the state-of-the-art cutting torch for steel mill cut-off and secondary cutting operations. The Torch body is stainless steel for longer life. The solid brass head and large volume water cooled body allows for cooler operation and gives increased torch life. The supply tubes support ring lessens fitting or tube damage due to torch change over or accidental impacts.

See Factory Remanufacturing & Exchange Program Available for Torches & Nozzles

OUTSTANDING FEATURES

- **Small Cutting Kerf**
Up to 50% reduction in width
- **Longer Stand-Off**
Longer life, less torch damage and wear
- **Small Slag Dross**
Less metal loss and slag removal
- **Good Cut Quality**
Sharper edges, straight cut
- **Faster Cutting Speed**
14-17 IPM, double conventional torches
- **Increased Nozzle Life**
Less change over
- **Quick Nozzle Change**
The tip is the nut
- **Low Consumption**
20% less Oxygen
- **Wide Working Ranges**
Thickness from 2-30" (50-750 mm)
- **Reduce Flashback Hazards**
Increased safety and less damage
- **Flying Start vs. Preheat Dwell**
Quicker overall cut time



GeGa® is a registered trademark for GeGa Lotz GmbH. Alba® is a registered trademark of A.L.B.A. s.r.l. Flame Technologies® is not affiliated or endorsed by the aforementioned companies.

703 Cypress Creek • Cedar Park, TX 78613

SMFT TORCH & SMFN (L) NOZZLE

(GEGA® COMPATIBLE SB-500F SERIES)

(GEGA® COMPATIBLE SDS SERIES)

SMFT TORCH (COMPATIBLE REPLACEMENT FOR GEGA® SB-500F)

• The **SMFT** (Steel Mill Flat Torch) is the state-of-the-art cutting torch for steel mill cut-off and secondary cutting operations. The torch body is stainless steel for longer life. The solid brass head and large volume water cooled body allows for cooler operation and gives increased torch life in limited water loss environment. The supply tubes support ring lessens fitting or tube damage due to torch change over or accidental impacts. **Factory Remanufacturing Program Available for Torches.**

• **Flame Tech®** can supply the SMFT torch in any required length and can design and supply specialty torch configurations upon request.

SMFN NOZZLE (COMPATIBLE REPLACEMENT FOR GEGA® SDS SERIES)

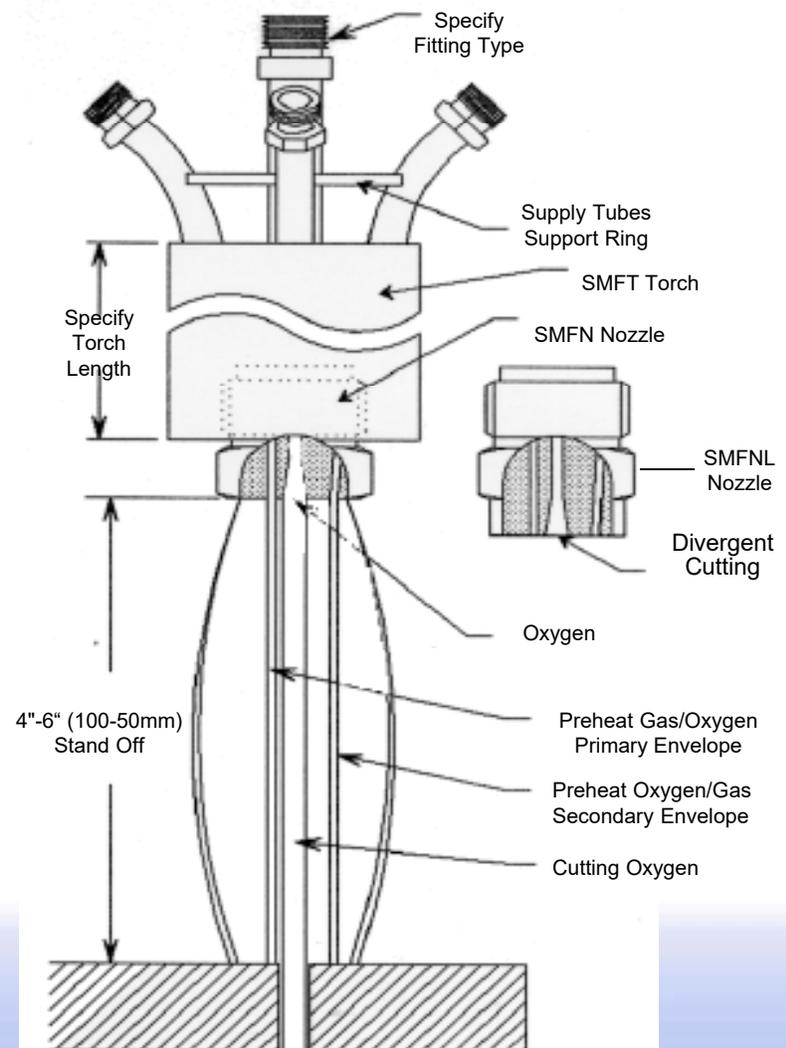
• The **SMFN** (Steel Mill Flat Nozzle) is a heavy duty cutting nozzle for all machine or specialty cut-off applications. It is designed for a wide range of thickness, up to 30" and operates with most available fuel and oxygen supplies.

SMFNL NOZZLE (DESIGNED AS A COMPATIBLE REPLACEMENT TO GEGA® SDS SERIES)

• The **SMFNL** (Steel Mill Flat Nozzle Long) is the state-of-the-art nozzle designed to perform at the higher end speed range, while at the low end pressure range yielding a narrower kerf thereby increasing efficiency. The nozzle pre-mixing/post-mixing design and use of a well defined diverged cutting oxygen stinger allows for faster starts, narrower kerfs, lower consumption and a longer stand-off. **Factory Remanufacturing Program Available for Nozzles.**

OUTSTANDING FEATURES

- **Small Cutting Kerf**
Up to 50% reduction in width
- **Longer Stand-Off**
Longer life, less torch damage and wear
- **Small Slag Dross**
Less metal loss and slag removal
- **Good Cut Quality**
Sharper edges, straight cut
- **Faster Cutting Speed**
14-17 IPM, double conventional torches
- **Increased Nozzle Change**
Less change over
- **Low Consumption**
20% less Oxygen
- **Wide Working Ranges**
Thickness from 2-30" (50-750 mm)
- **Reduce flashback Hazards**
Increased safety and less damage
- **Flying Start vs. Preheat Dwell**
Quicker overall cut time



FLAME TECHNOLOGIES STEEL MILL CUTTING NOZZLES OPERATING CHARACTERISTICS							
NOZZLE STYLE (GEGA® Compatible)		RINGFIRE (RSD-1)	SMCN-1 (SDK-1)	SMFN-1 (SDS-26F) SMFNL-1	SMFN-2 (SDS-33F) SMFNL-2	SMFN-3 (SDS-36F) SMFNL-3	SMFN-4 (SDS-40F) SMFNL-4
THICKNESS	(IN)	2 - 12	2 - 12	2 - 20	2 - 30	2 - 30	2 - 30
	(MM)	50 - 300	50 - 300	50 - 250	50 - 750	50 - 750	50 - 750
CUTTING OXYGEN	(PSI)	100 - 150	130 - 200	140 - 250	115 - 200	115 - 160	130 - 175
PRESSURE	(BAR)	6.9 - 10.4	9.0 - 3.9	9.7 - 17.4	8.0 - 13.9	8.0 - 11.1	9.0 - 12.0
P/H OXYGEN	(PSI)	35 - 40	30 - 35	30 - 45	30 - 45	30 - 45	30 - 45
PRESSURE	(BAR)	2.4 - 3.1	2.1 - 2.4	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
PROPANE	(PSI)	4 - 6	4 - 10	7 - 10	7 - 10	7 - 10	7 - 12
PRESSURE	(BAR)	0.3 - 0.4	0.3 - 0.7	0.5 - 0.7	0.5 - 0.7	0.5 - 0.7	0.5 - 0.8
NATURAL GAS	(PSI)	8 - 10	15 - 25	15 - 30	15 - 30	15 - 30	15 - 30
PRESSURE	(BAR)	0.6 - 0.7	1.0 - 1.7	1.0 - 2.1	1.0 - 2.1	1.0 - 2.1	1.0 - 2.1
COKE OVEN GAS	(PSI)	30 - 35	25 - 30	25 - 35	25 - 35	25 - 35	25 - 35
PRESSURE	(BAR)	2.1 - 2.4	1.7 - 2.1	1.7 - 2.4	1.7 - 2.4	1.7 - 2.4	1.7 - 2.4
CUTTING SPEED	IN/MM	10 - 12	10 - 12	6 - 11	7 - 9	7 - 9	7 - 11
@ 20C-170F	MM/MIN	250 - 300	250 - 300	150 - 280	180 - 240	180 - 240	180 - 280
CUTTING SPEED	IN/MM	16 - 18	14 - 17	11 - 17	12 - 16	12 - 16	12 - 20
@ 750C-1400F	MM/MIN	400 - 450	350 - 420	280 - 440	300 - 400	300 - 400	300 - 520
KERF WIDTH	(IN)	0.40 - 0.47	0.40 - 0.55	0.21 - 0.28	0.21 - 0.30	0.28 - 0.35	.31 - .40
@ 20C-70F	(MM)	10.0 - 12.0	10.0 - 14.0	5.5 - 7.0	5.5 - 7.5	7.0 - 9.0	8.0 - 10.0
KERTH WIDTH	(IN)	0.40 - 0.55	0.47 - 0.63	0.20 - 0.26	0.24 - 0.31	0.28 - 0.35	0.35 - 0.43
@750C-1400F	(MM)	12.0 - 14.0	12.0 - 16.0	5.0 - 6.5	6.0 - 8.0	7.0 - 9.0	9.0 - 11.0
NOZZLE	(IN)	2 - 5	2 - 5	4 - 6	4 - 6	4 - 6	4 - 6
DISTANCE	(MM)	60 - 120	60 - 120	100 - 140	100 - 140	100 - 140	100 - 140
BEARD WIDTH	(IN)	0.9 - 1.1	0.6 - 0.7	0.6 - 0.7	0.6 - 0.7	0.7 - 0.9	0.7 - 0.9
@ 750C-1400F	(MM)	22 - 27	14 - 18	14 - 18	15 - 19	18 - 22	18 - 2
BEARD THICKNESS	(IN)	0.5 - 0.6	0.6 - 0.7	0.2 - 0.3	0.3 - 0.4	0.3 - 0.4	0.35 - 0.5
@ 750C-1400F	(MM)	12 - 15	15 - 18	6 - 8	7 - 9	7 - 11	9 - 13
NOISE LEVED dBA	(MM)	108 - 115	105 - 112	102 - 109	100 - 106	100 - 106	100 - 106

- Cutting speeds, kerf thickness and widths are based on 8 inch (200 mm) thickness - mild carbon steel material.
- Pressures are recommended optimum conditions, it may be necessary to make adjustments based on material.
- The SMFNL's are designed to perform at the higher end speed range, while at the low end pressure range, yielding a narrower Kerf thereby increasing efficiency.

FLAME TECHNOLOGIES® MILL CUTTING EQUIPMENT “GEGA®” COMPATIBLE CROSS REFERENCE

GEGA® COMPATIBLE NUMBER		FLAME TECH® NUMBER	DESCRIPTION
TORCHES	SB-500F	GFT-500F	Water Cooled Gega® Compatible Design
	N/A	SMFT-XX*	Water Cooled Flame Tech® Design
	N/A	SMFT-A-XX *	Air Cooled Flame Tech® Design
	*NOTE XX DENOTES LENGTH		
NOZZLES	SDS-26F	SMFN-1	Flat Seat Nozzle
	SDS-33F	SMFN-2	Flat Seat Nozzle
	SDS-33FP	SMFNP-2	Flat Seat Nozzle-Pow der Cutting
	SDS-36F	SMFN-3	Flat Seat Nozzle
	SDH-40F	SMFN-4	Flat Seat Nozzle
	N/A	SMFN-1-4	Flame Tech Design Extended Length Flat Seat Nozzle

SMFN(L) GEGA® & ALBA® COMPATIBLE SERIES CONTINUOUS CASTER CUT-OFF NOZZLES

INTRODUCING THE LATEST GENERATION STEEL INDUSTRY PRODUCT CUTTING NOZZLE SMFNL For users of the (SMFN) Gega® Compatible SDS series nozzle

Flame Tech® has developed the latest generation of the extremely successful SMFN flat seat cutting nozzle. The new nozzle incorporates all the features of the SMFN (Gega® SDS series) and the new features that have been requested for years. The SMFNL is a direct replacement for the Flame Tech® or Gega® compatible series tips and requires no modifications.

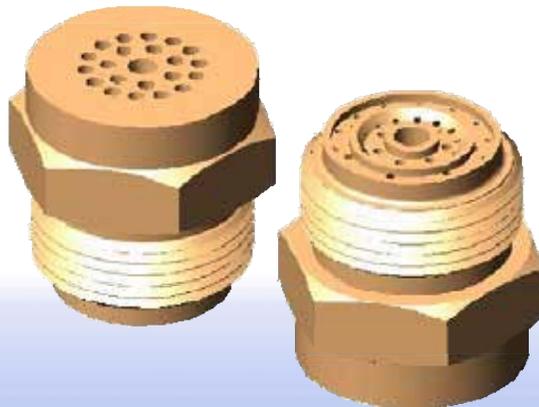
The SMFNL (improved design - long life, extended length, low pressure range) nozzle is designed to operate at the maximum cutting speed range, while operating at the low end of the oxygen pressure range. The nozzle operates at the same pressure range as the standard SMFN series nozzle. The longer overall length of the tip allows for the maximization of the cutting stream jet length to hole diameter ratio. Test have shown a 10-20% increase in cutting speed with no loss of cut quality. Actual cutting speed increases may vary due to individual caster conditions.

Features & Benefits:

- Made from Tellurium Copper for Strength and Durability
- “L” Series is the “*state-of-the-art*” Design to Perform at the Higher Speed Range of Cutting
- Produces Smaller Kerfs with a Greater Standoff Distance for Longer Life
- Wide Working Range for Overall Cost Effectiveness
- Refurbishing Program Available Upon Request for Maximum Savings

SMFNL & SMFN

Steel Mill Flat-Seat Nozzle (Long) Steel Mill Flat-Seat Nozzle



SMFNL₂ SERIES CONTINUOUS CASTER CUT-OFF NOZZLE

**INTRODUCING
THE LATEST GENERATION STEEL INDUSTRY PRODUCT
CUTTING NOZZLE SMFNL**

FOR USERS OF THE SMFN or Gega® Compatible SDS series Nozzle

Flame Tech® has developed the latest generation of the extremely successful SMFN flat seat cutting nozzle. The new nozzle incorporates all the features of the SMFN (Gega® SDS series) and the new features that have been requested for years. The SMFNL is a direct replacement for the Flame Tech® or Gega® series tips and requires no modifications.

The **SMFNL** (improved design - Long Life, extended Length, Low pressure range) nozzle is designed to operate at the maximum cutting speed range, while operating at the low end of the pressure range. The nozzle operates at the same pressure range as the standard SMFN series nozzle. The longer overall length of the tip allows for the maximization of the cutting stream jet length to hole diameter ratio. Test have shown a 10-20% increase on cutting speed with no loss of cut quality. Actual cutting speed increases may vary due to individual caster conditions.

The **SMFNL₂** nozzle has been field tested in the U.S., Australia and Mexico and is now available in all sizes. **Flame Tech®** has a policy welcoming any and all suggestions from our customers regarding product improvements or complaints. **Flame Tech®** will respond to all customer input and is able to react to our customers needs in a timely, positive manner.

We would like to take this opportunity to thank you for interest in **Flame Tech®** products - give us a call!!!

FLAME TECH® (GEGA® Compatible) Standard Length		NEW GENERATION – FLAME TECH® Long Length	
PART NUMBERS		FLAME TECH® PART NUMBERS	
FLAME TECH®	GEGA®		
SMFN-1	(SDS-26F)	SMFNL-1	
SMFN-2	(SDS-33F)	SMFNL-2	
SMFN-3	(SDS-36F)	SMFNL-3	
SMFN-4	(SDH-40F)	SMFNL-4	

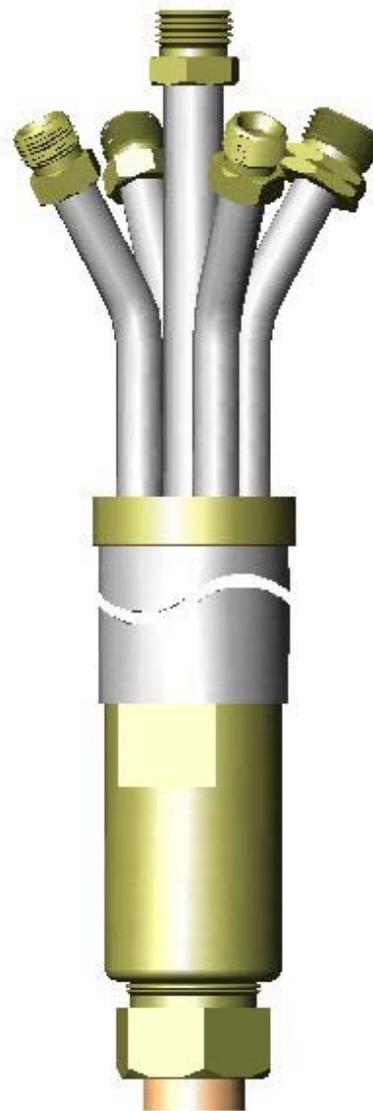
MG 651 D STYLE TORCH & NOZZLE

The MG (Messer Griesheim®) Torch is the state-of-the-art cutting torch for steel mill cut-off and secondary cutting operations. The torch body is stainless steel for longer life. The solid brass head and large volume water cooled body allows for cooler operation and gives increased torch life in limited water loss environment. The supply tubes support ring lessens fitting or tube damage due to torch change over or accidental impacts. *Factory Remanufacturing Program Available for Torches.*

Flame Tech® can supply the MG torch in any required length and can design and supply specialty torch configurations upon request.

OUTSTANDING FEATURES

- **Small Cutting Kerf**
Up to 50% reduction in width
- **Longer Stand-Off**
Longer life, less torch damage and wear
- **Small Slag Dross**
Less metal loss and slag removal
- **Good Cut Quality**
Sharper edges, straight cut
- **Faster Cutting Speed**
14-17 IPM, double conventional torches
- **Increased Nozzle Life**
Less change over
- **Low Consumption**
20% less Oxygen
- **Wide Working Ranges**
Thickness from 2-30" (50-750 mm)
- **Reduce Flashback Hazards**
Increased safety and less damage
- **Flying Start vs. Preheat Dwell**
Quicker overall cut time



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MG STYLE TORCH & NOZZLE

MG STYLE TORCH

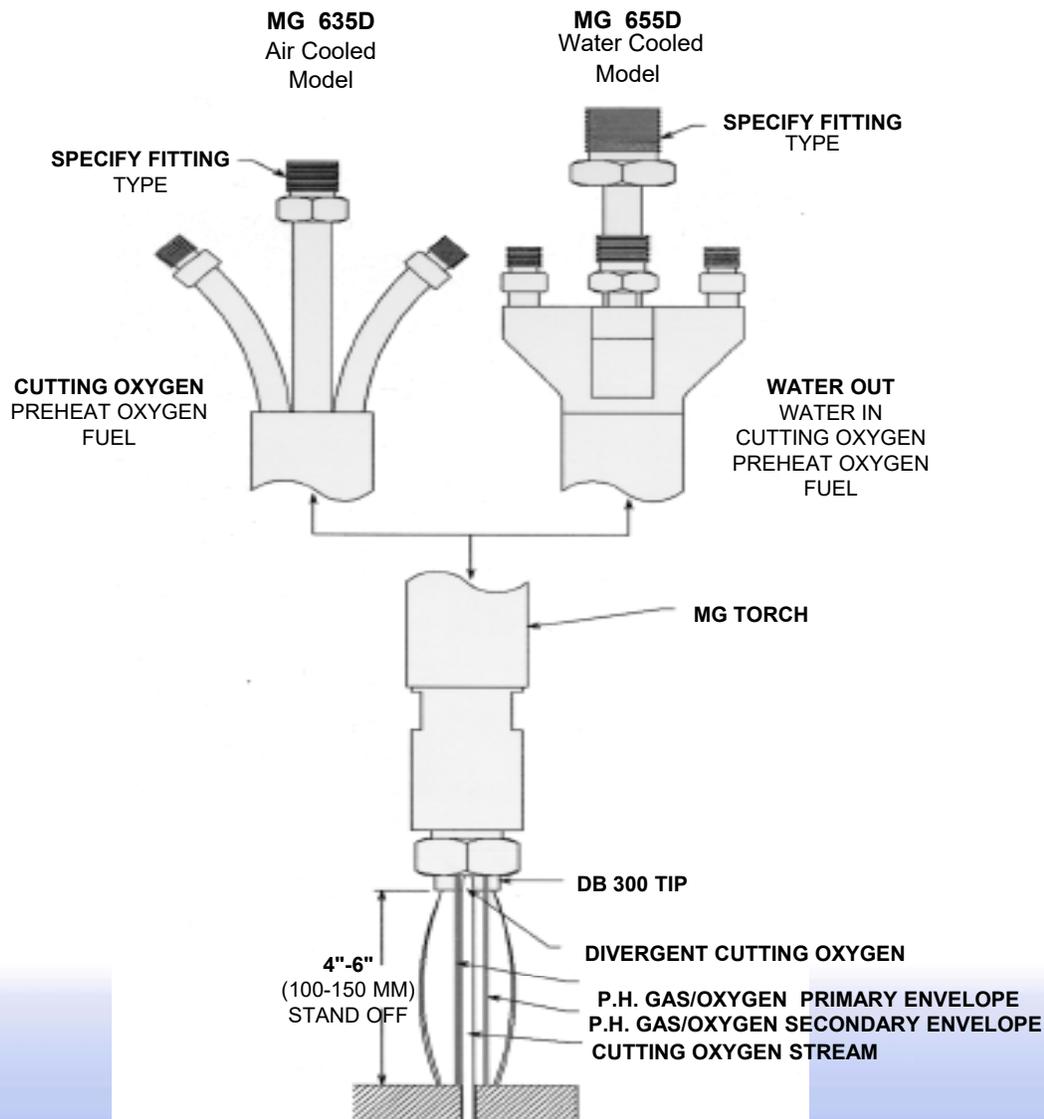
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The torch body is stainless steel for longer life. The solid brass head and large volume water cooled body allows for cooler operation and gives increased torch life in limited water loss environment. The supply tubes support ring lessens fitting or tube damage due to torch change over or accidental impacts. **Factory Remanufacturing Program Available for Torches.**

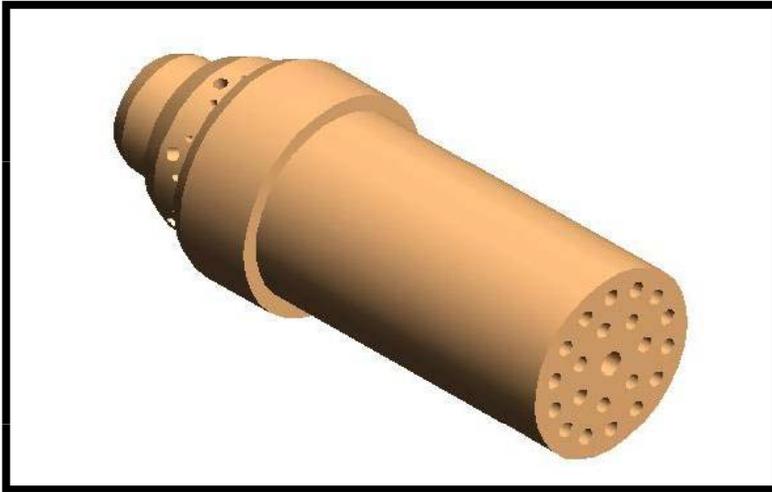
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OUTSTANDING FEATURES

- **Small Cutting Kerf**
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Quicker overall cut time



MG (Messer Griesheim®) STYLE NOZZLE



Factory Remanufacturing Program

Available for Nozzles.

OUTSTANDING FEATURES

• **CUTTING WITH AN ULTRA-THIN KERF**

Allows for cutting material with a kerfs as thin as >25 inches. Reducing waste and saving money

• **DURABILITY AND DEPENDABILITY**

The high nozzle standoff of 4-5 inches reduces slag-splatter build up on the nozzle. Increases the life of the nozzle and the torch.

• **REDUCES PRODUCTION TIME**

Cutting time is reduced with the robust heat flame produced. Reduces or eliminates non productive preheat time. High quality cutting surface, minimal slag, straight cut, square top.

• **IMPROVED SAFETY**

Increased cutting efficiency is directly related to improve safety. The internal mixing nozzle enhances safety. Heating Oxygen and fuel gas are mixed individually in each preheat opening within the nozzle. This prevents any ignitable mixture of fuel gas and oxygen within the torch.

OPERATIONAL & PERFORMANCE DATA

NOZZLE TYPE	STEEL THICKNESS	GAS PRESSURE (PSIG)							KERF WIDTH
		FUEL GAS			HEATING OXYGEN		CUTTING OXYGEN		
		TYPE	PRESSURE	FLOW	PRESSURE	FLOW	PRESSURE	FLOW	
DB-218	2"-8"	NATURAL PROPANE	3.5	258	15	445	75	1300	.3-.4
			15	70	15	355	75	1300	.3-.4
DB-300	2"-4"	NATURAL PROPANE	3.5	375	10	300	75	1300	.3-.4
			15	85	10	240	75	1300	.3-.4
	4"-6"	NATURAL PROPANE	7.5	600	15	445	75	1300	.3-.4
			3	160	15	355	75	1300	.3-.4
	6"-12"	NATURAL PROPANE	7.5	600	15	445	115	2020	.3-.4
			3	160	15	355	115	2020	.3-.4
DB-318	4"-12"	NATURAL PROPANE	7.5	600	15	445	150	1775	.25-.3
			3	160	15	355	150	1775	.25-.3
DB-600	12"-15"	NATURAL PROPANE	5	495	12	355	75	2300	.4-.5
			3	460	9	310	75	2300	.4-.5
	15"-19"	NATURAL PROPANE	6	550	16	425	95	2825	.4-.5
			4	210	13	370	95	2825	.4-.5
	19"-22"	NATURAL PROPANE	7.5	675	19	480	115	3550	.5-.6
			5	235	15	420	115	3550	.5-.6
	22"-24"	NATURAL PROPANE	11	815	26	570	150	4250	.5-.6
			6	285	21	495	150	4250	.5-.6

ENGINEERING SUPPORT AND SERVICE

Flame Tech's Line of Steel Products also includes: Continuous Caster Cut-Off Torches and Tips, Continuous Caster Carriages, Full Line of Manifold and Station Regulators, Torch and Tip Repair, and Engineering Support and Service.

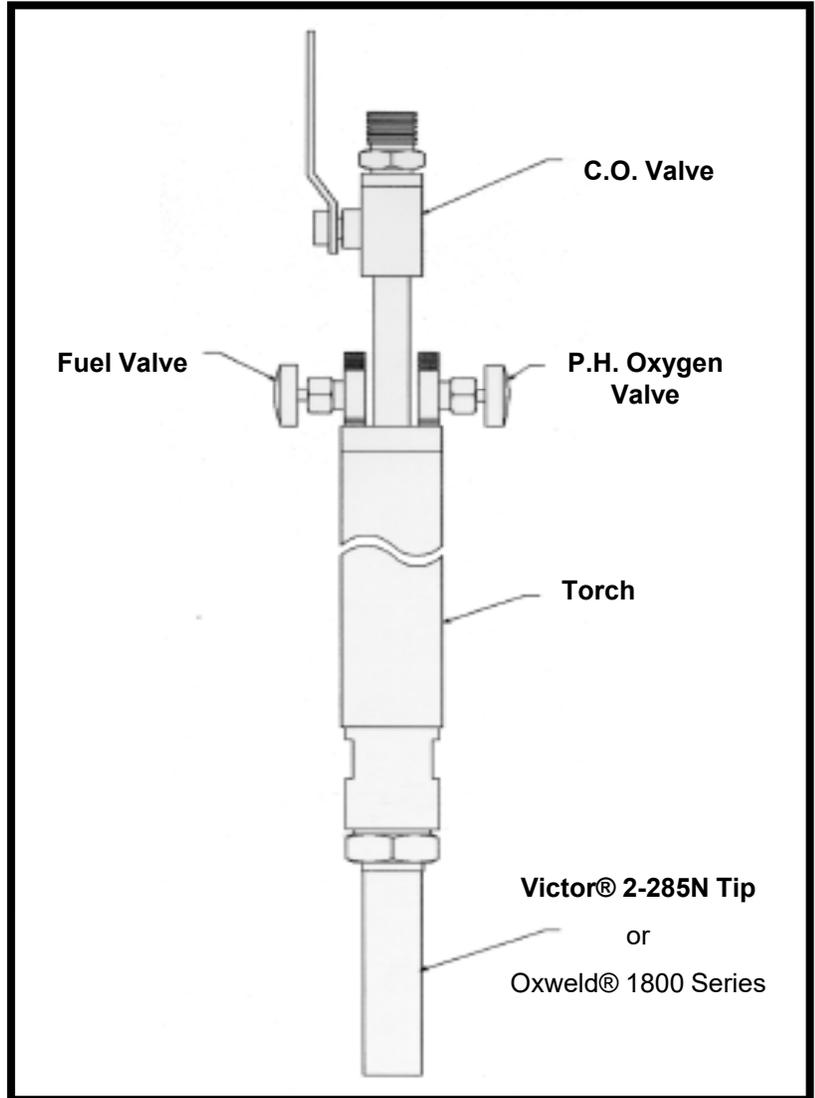
HEAVY DUTY MACHINE TORCH

The **FLAME TECH®** Heavy Duty Machine Torch is a rugged high capacity torch designed for heavy duty mechanized cutting in foundries, steel mills, scrap yards or anywhere durability and large cutting requirements are desired. The torch has a separate cutting oxygen supply to enable the cutting of material thickness up to 60". Available with or without valves and uses "C" cutting oxygen and "B" preheat and fuel.

- **MT-48** uses Victor® style 2-285N nozzles (suitable replacement for Victor® MT 1500 torch).
- **MT-60** uses Oxweld® style 1800 series nozzles.

FEATURES

- Air cooled standard torch has a 12" barrel, 1 3/4" diameter barrel, 27" overall length.
- Separate preheat and cutting supply for faster start and increased cutting capacity.
- Custom lengths available.
- Torch without valves available.
- 1 3/4" torch holders available.



ORDERING INFORMATION

MODEL	PART NUMBER	DESCRIPTION
MT-48	30-0707	Heavy duty machine torch with valves
MT-48 WOV	30-0308	Heavy duty machine torch without valves
MT-60	30-0709	Heavy duty machine torch with valves
MT-60	30-0710	Heavy duty machine torch without valves

VICTOR® is a registered trademark for Thermadyne Industries, USA ; OXWELD® is a registered trademark for ESAB Welding & Cutting Products, USA. FLAME TECHNOLOGIES, INC.® is not affiliated with or endorsed by the aforementioned companies.

Machine Cutting Torches



MCT200 SERIES

FT MODEL #	BARREL LENGTH	QTY HOSES	GEAR RACK LENGTH	CUTTING RANGE	DESCRIPTION
MCT200-5A	5-1/2"	2	n/a	8"	Acetylene Only
MCT200-5F	5-1/2"	2	n/a	8"	Alternative Fuel Gas
MCT200-5AR	5-1/2"	2	4-1/2"	8"	Acetylene Only
MCT200-5FR	5-1/2"	2	4-1/2"	8"	Alternative Fuel Gas
MCT200-10A	10"	2	n/a	8"	Acetylene Only
MCT200-10F	10"	2	n/a	8"	Alternative Fuel Gas
MCT200-10AR	10"	2	7"	8"	Acetylene Only
MCT200-10FR	10"	2	7"	8"	Alternative Fuel Gas



MCT300 SERIES

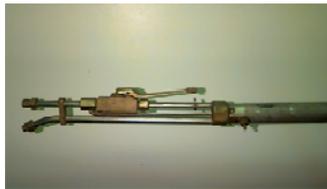
FT MODEL #	BARREL LENGTH	QTY HOSES	GEAR RACK LENGTH	CUTTING RANGE	DESCRIPTION
MCT300-10A	10"	3	n/a	12"	Acetylene Only
MCT300-10F	10"	3	n/a	12"	Alternative Fuel Gas
MCT300-10AR	10"	3	7"	12"	Acetylene Only
MCT300-10FR	10"	3	7"	12"	Alternative Fuel Gas
MCT300-18A	18"	3	n/a	12"	Acetylene Only
MCT300-18F	18"	3	n/a	12"	Alternative Fuel Gas
MCT300-18AR	18"	3	15"	12"	Acetylene Only
MCT300-18FR	18"	3	15"	12"	Alternative Fuel Gas

TORCH REPAIR PROGRAM

Flame Tech® offers a complete repair program on all steel mill cutting torches. Just send the torch back to us with a complete description of the problem, the company name and contact. Flame Tech® will prepare a repair estimate within 48 hours. All torch estimates and torches are held for 60 days. If no authorization is received the torches will be sent back or discarded

Contact our Customer Service & Technical Assistance
Call: 1-800-749-3682 or 512-219-8481

We take the “OLD” and make it look like “NEW”



HEAVY DUTY HAND



7500 SERIES CUTS UP TO 14" OF STEEL



8600 SERIES CUTS UP TO 36" OF STEEL



CUTTING TORCHES

Designed for rugged environments and customized the way you want it. Hand cutting torches suggested for scrap yards, mills and foundries.

9600 SERIES CUTS UP TO 48" OF STEEL



LADLE SKULLS

SCRAP COILS



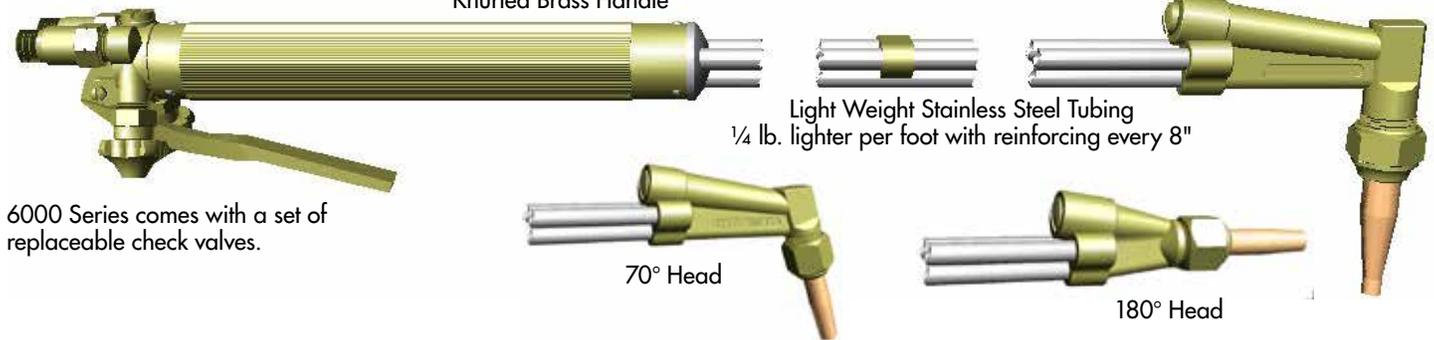
HC48L SERIES CUTS UP TO 48" OF STEEL

6000 SERIES—CUTS UP TO 8", GAS TYPE IS MODEL DEPENDENT (SEE BELOW)

CGA "B" Oxygen &
CGA "B" Left-hand Fuel Inlets

Knurled Brass Handle

Solid Bronze Forged Head



6000 Series comes with a set of replaceable check valves.

Light Weight Stainless Steel Tubing
¼ lb. lighter per foot with reinforcing every 8"

70° Head

180° Head

SOLID BRONZE FORGED HEAD

- Long life, resists distortion from abuse
- Maximum service with minimum maintenance

INJECTOR/MIXER

- Mixer in head to reduce burn back in tubes
- Safer than tube mixing designs

EXTERNAL CHECK VALVES

- Easily replaced on the job & prevents reverse flow.
- Flame Tech® recommends flash arrestors style GG/DGN
See check valves & flash arrestors section in this catalog.

LIGHT WEIGHT, STAINLESS TUBES

- Maximum design strength—¼ lb. per foot lighter

MODELS & SIZES

Flame Tech's 6000 series torches are designed for heavy duty hand held applications for the steel mill, foundry or scrap yard environment where up to 8" cutting is required. These torches come in 21, 27, 36, 48, 72, 96, & 120 inch lengths. Custom lengths are also available upon request. See our 7000, 8000 and 9000 series for 14", 36" & 48" cutting capabilities. These torches have built-in mixers, and as such must be ordered according to the gas type to be used. Different gas usage requires a different torch. See "Part Numbering Example."

ORDERING & PART NUMBERS

Flame Tech® uses an identification system that consists of numbers and letters to identify the manufacture model, size, gas, and style head on our torches. Below are examples for our Heavy Duty Hand Torches. See our price list for complete offering.

OEM COMPATIBILITY

- 6200 Series—Compatible with Harris® Seat
- 6300 Series—Compatible with Victor® Seat
- 6400 Series—Compatible with Oxweld® Seat

PART NUMBERING EXAMPLE

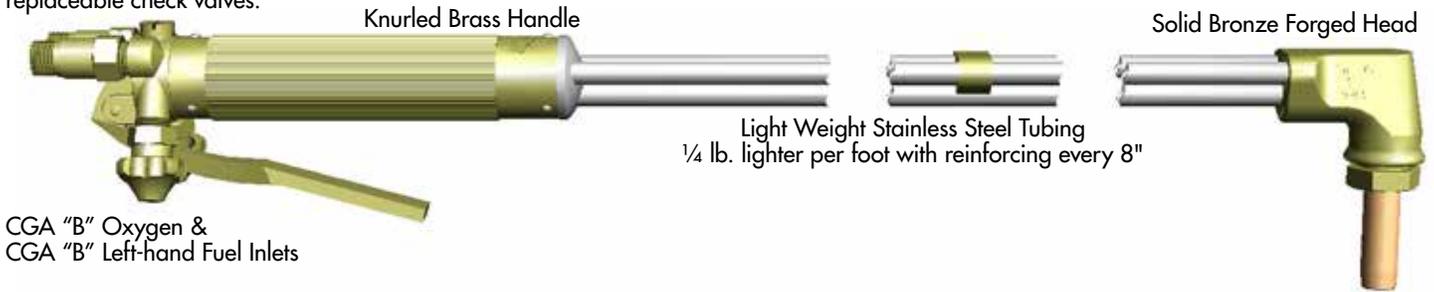
- 6321-A90 = "63" indicates the series of torch you are ordering (Victor® compatible torch)
- 6321-A90 = "21" indicates the length of torch you are ordering (21" long)
- 6321-A90 = "A" indicates Acetylene gas
"F" indicates alternate Fuel gases only (not for acetylene) for maximum performance
- 6321-A90 = "90" indicates the degree of the head (70°, 90°, or 180°)



» SEE PAGE 21 FOR SCRAPER TIP INFORMATION

6500 SERIES—CUTS UP TO 8", USES ACETYLENE OR ALT. FUEL GASES

6500 Series comes with a set of replaceable check valves.



FEATURES

- Solid Bronze Head
- Heavy Duty Tip-Mixing Torch
- Three Stainless Tubes in Triangular Format
- Light Weight Multi-Tasking Torch

BENEFITS

- Safety First – Reduced Flashback
- Maximum Strength, Greater Rigidity
- Low Maintenance, Longer Lasting
- Ease of Operation

CAPABILITIES

Flame Tech’s 6500 Hand Cutting Torch is a heavy duty torch designed for rugged environments. This torch features a safe, tip-mix design. The 6500 series torch uses Flame Tech’s “A-Scrapper” or Airco® compatible cutting tips, and is ideal for heavy cutting in scrap yards and steel mill operations. This heavy duty torch when using these tips can hand cut up to 8" of steel.

- Can be used with any Fuel Gas
- Single lever actuated torch control
- Uses common CGA “B” size oxygen supply and LH CGA “B” size fuel supply to minimize the hose and regulator requirements.

PART NUMBERING EXAMPLE

- 6548-70 = “65” indicates the torch series you are ordering
- 6548-70 = “48” indicates the length of the torch you are ordering (48" long)
- 6548-70 = “70” indicates the degree of the head (70°, 90°, or 180°)

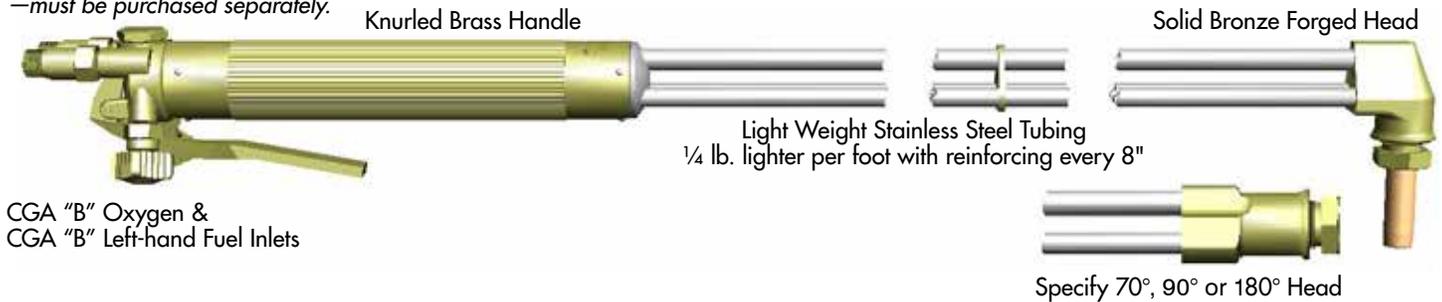
Standard lengths are 21, 27, 36, 48, 60, 72, 96 & 120 inches. Custom lengths available. 70°, 90° or 180° available.

» SEE PAGE 21 FOR SCRAPER TIP INFORMATION



7500 SERIES—CUTS UP TO 14", USES ACETYLENE OR ALT. FUEL GASES

Check valves are recommended
—must be purchased separately.



FEATURES

- Solid Bronze Head
- Heavy Duty Nozzle Mixing Torch
- Three Stainless Tubes in Triangular Format
- Light Weight Multi-Tasking Torch

BENEFITS

- Safety First – Reduced Flashback
- Maximum Strength, Greater Rigidity
- Low Maintenance, Longer Lasting
- Ease of Operation

CAPABILITIES

Flame Tech’s 7500 Hand Cutting Torch is a heavy duty torch designed for rugged environments. This torch features a safe, tip-mix design. The 7500 series torch uses Flame Tech’s “A-Scrapper” or Airco® compatible cutting tips, and is ideal for heavy cutting in scrap yards and steel mill operations. This heavy duty torch when using these tips can hand cut up to 14" of steel.

- Can be used with any Fuel Gas
- Single lever actuated torch control
- Uses common CGA “B” size oxygen supply and LH CGA “B” size fuel supply to minimize the hose and regulator requirements

PART NUMBERING EXAMPLE

- 7548-70 = “75” indicates the torch series you are ordering
- 7548-70 = “48” indicates the length of the torch you are ordering (48" long)
- 7548-70 = “70” indicates the degree of the head (70°, 90° or 180°)

Standard lengths are 21, 27, 36, 48, 60, 72, 96 & 120 inches. Custom lengths available. 70°, 90° or 180° available.

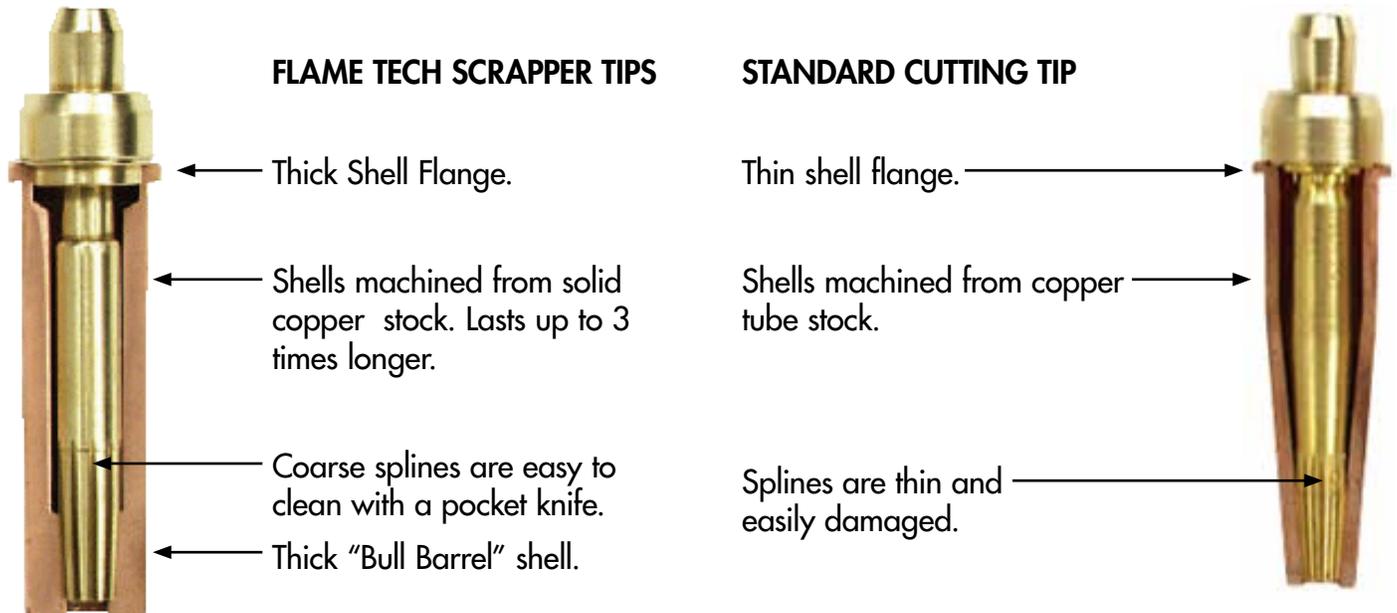
» SEE PAGE 21 FOR SCRAPER TIP INFORMATION



FLAME TECH® SCRAPPER TIPS—6000, 6500 & 7500 SERIES TORCHES

SEE THE DIFFERENCE YOURSELF WITH FLAME TECH’S FAMOUS “SCRAPPER” CUTTING TIPS

- Larger preheats reduce start time and help to “maintain the cut.”
- Coarse “V” internal splines do not clog easily and can be cleaned with a pocket knife.
- Ideal for working on rusty, scaly, painted surfaces.
- Compatible with standard OEM torches.



METAL THICKNESS (INCHES)	TIP SIZE		OXYGEN		FUEL GAS PSI	SPEED IPM	KERF WIDTH
	TIP NO.	DRILL SIZE	CUTTING PSI	PREHEAT PSI			
1/8	5/0	74	20-30	5-9	2-5	18-26	.035
3/16	4/0	71	30-40	5-9	2-5	18-25	.04
1/4	000	68	30-40	5-9	3-5	17-24	.05
3/8	00	64	35-45	5-10	3-5	17-23	.06
1/2	00½	62	35-45	5-10	3-6	16-22	.065
5/8	0	60	35-45	5-10	3-6	15-20	.07
3/4	0½	58	35-50	5-10	3-6	15-19	.075
1	1	56	35-50	5-10	3-6	14-18	.08
1½	1½	54	40-55	10-17	4-8	12-16	.09
2	2	52	40-55	10-17	4-8	10-14	.10
2½	2½	50	40-55	10-17	5-9	9-13	.105
3	3	48	45-60	10-17	6-10	8-11	.11
4	4	44	50-65	10-17	6-10	7-10	.13
6	5	39	60-75	10-17	8-12	5-8	.15
8	6	31	60-75	30-43	9-15	4-6	.19
9	7	28	55-65	30-43	9-15	3-5	.22
10	8	25	50-65	30-43	9-15	3-4	.24
12	10	13	45-60	30-43	10-18	2-3	.34
14	12	5	40-55	30-43	10-18	1-2	.40

8600 SERIES—CUTS UP TO 36", USES BI-METAL & TRI-METAL TIP SERIES

Check valves are recommended
—must be purchased separately.



CGA "C" Oxygen &
CGA "B" Left-hand Fuel Inlets

FEATURES

- Solid Bronze Head
- Heavy Duty Nozzle Mixing Torch
- Three Stainless Tubes in Triangular Format
- Uses Flame Tech® Designed BI-METAL or TRI-METAL 80 Series Tip-Mixing Nozzles
- Light Weight Multi-Tasking Torch

BENEFITS

- Safety First – Reduced Flashback
- Maximum Strength, Greater Rigidity
- Low Maintenance, Longer Lasting
- Ease of Operation

CAPABILITIES

Flame Tech's 8600 Hand Cutting Torch is a heavy duty torch designed for rugged environments. This torch features a safe, tip-mix design. The 8600 series torch uses Flame Tech's proprietary BI-METAL or TRI-METAL cutting nozzles, and is ideal for heavy cutting in scrap yards and steel mill operations. This heavy duty torch, when using the BI-METAL or TRI-METAL 80 series nozzles, can hand cut up to 36" of steel.

- Single lever actuated torch control.
- Uses CGA "C" size oxygen supply and LH CGA "B" size fuel supply to minimize the hose and regulator requirements.
- For alternative fuel only – NOT FOR ACETYLENE.

PART NUMBERING EXAMPLE

- 8648-70 = "86" indicates the torch series you are ordering
- 8648-70 = "48" indicates the length of the torch you are ordering (48" long)
- 8648-70 = "70" indicates the degree of the head (70°, 90° or 180°)

Standard lengths are 36, 48, 60, 72, 96 & 120 inches. Custom lengths available. 70°, 90° or 180° available.

» SEE PAGE 23 FOR 80 SERIES BI-METAL & TRI-METAL TIP INFORMATION



80 SERIES BI-METAL & TRI-METAL TIP-MIX CUTTING NOZZLES



HOSE & REGULATOR REQUIREMENTS

When cutting over 20", use 1/2" ID hose.

Oxygen supply and oxygen regulator must be capable of flows mentioned on cutting tip chart shown below.



← Brass seat for longer life and better structural integrity. Brass increases quality over copper in the drilling of the seat mixer.

← Copper barrel for better transference and dissipation of heat away from the cutting zone.

← Stainless wear ring for longer life.



CAUTION
 ALWAYS USE
FLASH BACK ARRESTORS
 (purchased separately)

80 SERIES NOZZLES				GAS PRESSURE (PSIG)		GAS CONSUMPTION (CFH)	
SIZE	BI-METAL P/N	TRI-METAL P/N	METAL THICKNESS	OXYGEN	FUEL GAS	OXYGEN	FUEL GAS
12	BM80-12	TM80-12	10-12	60-100	5-15	750-1650	80-120
16	BM80-16	TM80-16	12-16	60-100	5-15	1000-1950	80-120
20	BM80-20	TM80-20	16-20	60-100	5-15	1600-2500	100-160
24	BM80-24	TM80-24	20-24	60-100	5-15	1800-3000	100-160
36	BM80-36	TM80-36	24-36	60-100	5-15	2100-3600	100-160

9500 SCARFING—CUTS UP TO 36", USES TRI-METAL 95 SERIES TIPS

Check valves are recommended
—must be purchased separately.



Two Inlets:
CGA "C" Cutting Oxygen, CGA "B" Left-hand Fuel

FEATURES

- Solid Brass Head
- Heavy Duty Nozzle Mixing Torch
- Three Stainless Tubes in Triangular Format
- Uses Flame Tech® Designed TRI-METAL TMS95-62 Tip-Mixing Scarfing Nozzle
- Light Weight Multi-Tasking Torch

BENEFITS

- Safety First – Reduced Flashback
- Maximum Strength, Greater Rigidity
- Low Maintenance, Longer Lasting
- Ease of Operation



Strategically
Located Hardened
Alloy Wear Inserts



CAPABILITIES

The 9500 scarfing torch, when using the TRI-METAL scarfing nozzle, is ideal for operations where wide, shallow passes are required in order to remove cracks, seams, or other defects in steel slabs, ingots.

- Scarfing path width – 2 1/2" through 3 3/8" width
- Single lever actuated torch control
- Uses common CGA "C" 1/2" cutting oxygen supply and CGA "B" 3/8" size fuel.
- Cutting up to 36" when using BM90-36 cutting nozzles (see BI-METAL chart after 9600 torch)

PART NUMBERING EXAMPLE

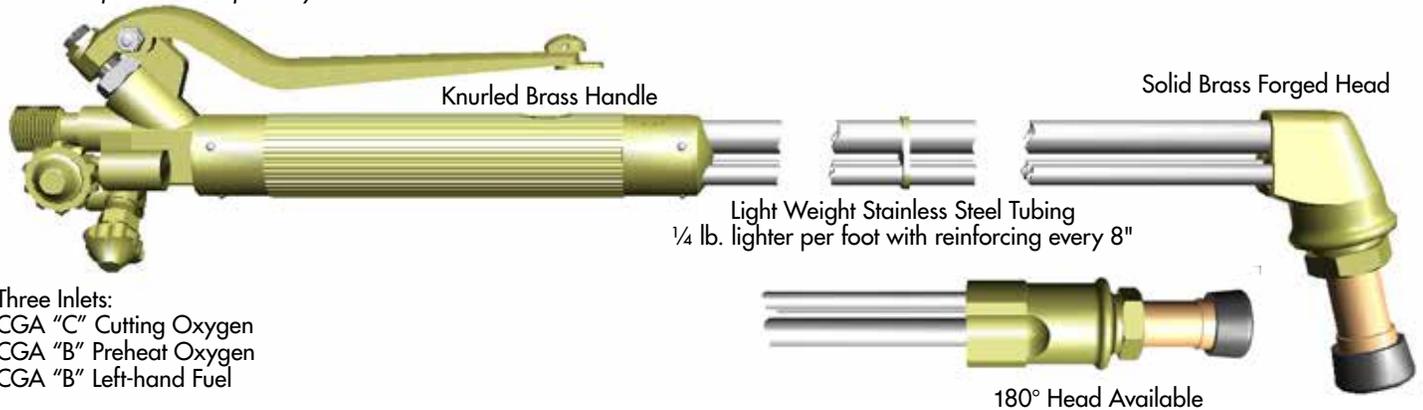
- 9542 Hand Scarfing 42" 70 Degree Head for Alternative Fuel Gas
- 9548 Hand Scarfing 48" 70 Degree Head for Alternative Fuel Gas
- 9542WF Hand Scarfing With Wire Feed 42" 70 Degree Head for Alternative Fuel Gas
- 9548WF Hand Scarfing With Wire Feed 48" 70 Degree Head for Alternative Fuel Gas

The 9500 torch is available in custom lengths over 48" with or without rod feed.

» SEE PAGE 26 FOR TMS95-62 SCARFING NOZZLE INFORMATION

9600 SERIES—CUTS UP TO 48", USES BI-METAL & TRI-METAL TIP SERIES

Check valves are recommended
—must be purchased separately.



FEATURES

- Solid Brass Head
- Heavy Duty Nozzle Mixing Torch
- Three Stainless Tubes in Triangular Format
- Uses Flame Tech® Designed BI-METAL or TRI-METAL 90 Series Tip-Mixing Nozzles
- Light Weight Multi-Tasking Torch

BENEFITS

- Safety First – Reduced Flashback
- Maximum Strength, Greater Rigidity
- Low Maintenance, Longer Lasting
- Ease of Operation

CAPABILITIES

Flame Tech’s 9600 Hand Cutting Torch is a heavy duty torch designed for rugged steel mill environments. This heavy duty torch features a safe, tip-mix design. The 9600 series torch uses the Flame Tech’s BI-METAL or TRI-METAL nozzles can hand cut up to 48" of steel.

- Three hose input into tail body.
- Uses common CGA "C" cutting oxygen supply , CGA "B" preheat oxygen, LH CGA "B" fuel inlets.
- Single lever actuated torch control.
- For alternative fuel only – NOT FOR ACETYLENE

PART NUMBERING EXAMPLE

- 9648-70 = 96 indicates the torch series you are ordering
- 9648-70 = 48 indicates the length of the torch you are ordering (48" long)
- 9648-70 = 70 indicates the degree of the head (70° or 180°)

Standard lengths are 36, 48, 60, 72, 96 & 120 inches. Custom lengths available. 70° and 180° only.

» SEE PAGE 26 FOR 90 SERIES BI-METAL & TRI-METAL TIP INFORMATION



90 SERIES & 95 SCARFING BI- & TRI-METAL TIP-MIX CUTTING NOZZLES



HOSE & REGULATOR REQUIREMENTS

When cutting over 20", use 1/2" ID hose.

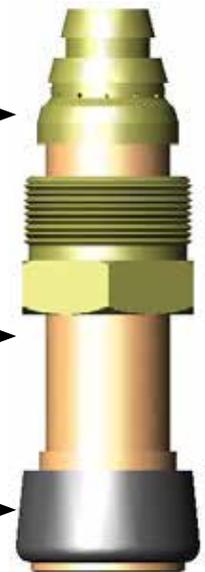
Oxygen supply and oxygen regulator must be capable of flows mentioned on cutting tip chart shown below.



← Brass seat for longer life and better structural integrity. Brass increases quality over copper in the drilling of the seat mixer.

← Copper barrel for better transferance and dissipation of heat away from the cutting zone.

← Stainless wear ring for longer life.



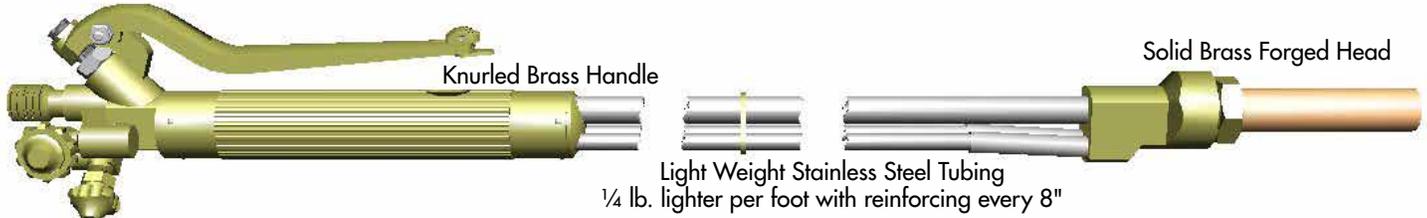
CAUTION
ALWAYS USE
FLASH BACK ARRESTORS
(purchased separately)

90 SERIES NOZZLES				GAS PRESSURE (PSIG)			GAS CONSUMPTION (CFH)	
SIZE	BI-METAL P/N	TRI-METAL P/N	METAL THICKNESS	OXYGEN	PRE-HEAT OXYGEN	FUEL GAS	OXYGEN	FUEL GAS
24	BM90-24	TM90-24	18-24	25-45	25-50	13-25	2200-3400	80-160
30	BM90-30	TM90-30	24-30	20-40	25-50	13-25	2200-3800	80-160
36	BM90-36	TM90-36	30-36	20-40	25-50	13-25	2300-4400	80-160
48	BM90-48	TM90-48	36-48	15-35	25-50	13-25	2400-5000	80-160

95 SCARFING TRI-METAL NOZZLE			CUTTING OXYGEN		NATURAL GAS	
SIZE	TRI-METAL P/N	SCARFING PATH WIDTH	PRESSURE (PSIG)	FLOW (CFH)	PRESSURE (PSIG)	FLOW (CFH)
62	TMS95-62	2-1/4 x 3-3/8	20	4300	5	40

HC48 HIGH CAPACITY SCRAPER TORCH—CUTS UP TO 48"

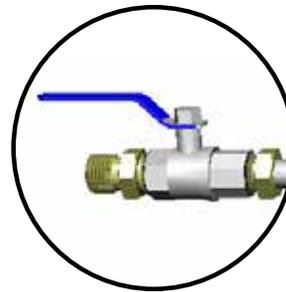
Check valves are recommended
—must be purchased separately.



Three Inlets:
CGA "C" Cutting Oxygen
CGA "B" Preheat Oxygen
CGA "B" Left-hand Fuel

FEATURES

- Three Stainless Tubes in Triangular Format
- Separate cutting & preheat oxygen—decreases preheat time and increases cutting speed
- Suitable replacement for Victor® HC 1500
- Cuts up to 48 inches of steel with 2-285 series cutting nozzles



AVAILABLE WITH BALL VALVE
For ball valve style, remove "L" from part number (see below.)

HIGH CAPACITY HAND CUTTING TORCH FOR VICTOR® COMPATIBLE 2-285N NOZZLES

Flame Tech's HC series hand cutting torch is designed for rugged, heavy duty applications in foundries, scrap yards and steel mills. It is ideal for emergency billet cutting, removes skulls and risers or any heavy hand cutting requirements. Off-set 180° head allows the operator to widen the cut kerf by rotating the head and deepening the cut.

ORDERING INFORMATION

- HC48L-60-180 = 60" long, 180° Head with Lever
- HC48-60-180 = 60" long, 180° Head with Ball Valve

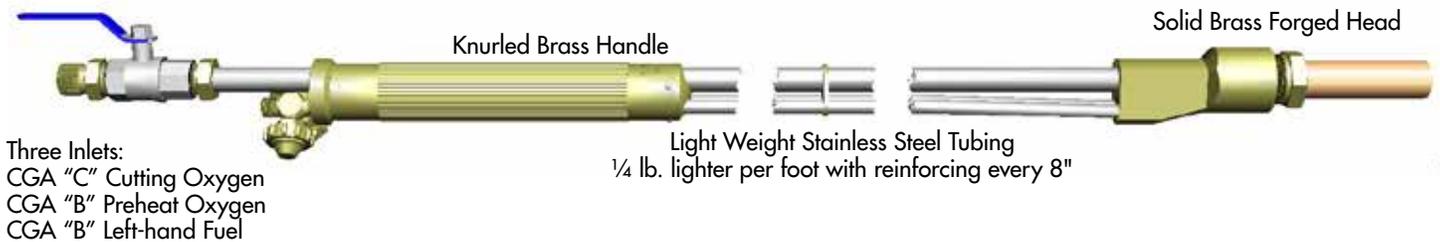
Standard length is 60 inches. Custom lengths available. 180° only.

» SEE PAGE 29 FOR HIGH CAPACITY CUTTING NOZZLES



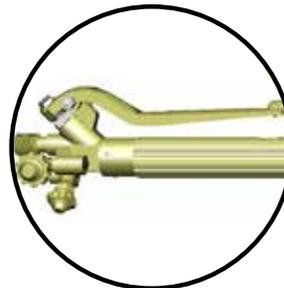
HC60 HIGH CAPACITY SCRAPER TORCH—CUTS UP TO 48"

Check valves are recommended
—must be purchased separately.



FEATURES

- Three Stainless Tubes in Triangular Format
- Separate cutting & preheat oxygen—decreases preheat time and increases cutting speed
- Suitable replacement for Oxweld® C-63
- Cuts up to 48 inches of steel with Oxweld® C-63 1808 style cutting nozzles



AVAILABLE WITH LEVER
For lever style, add "L" to part number (see below.)

HIGH CAPACITY HAND CUTTING TORCH FOR ESAB® AND VICTOR® COMPATIBLE 1808 NOZZLES

Flame Tech's HC series hand cutting torch is designed for rugged, heavy duty applications in foundries, scrap yards and steel mills. It is ideal for emergency billet cutting, removes skulls and risers or any heavy hand cutting requirements. Off-set 180° head allows the operator to widen the cut kerf by rotating the head and deepening the cut.

ORDERING INFORMATION

- HC60L-60-180 = 60" long, 180° Head with Lever
- HC60-60-180 = 60" long, 180° Head with Ball Valve

Standard length is 60 inches. Custom lengths available. 180° only.

» **SEE PAGE 29 FOR HIGH CAPACITY CUTTING NOZZLES**



HIGH CAPACITY CUTTING NOZZLES—HC SERIES TORCHES

2-285N CUTTING NOZZLE

2-285N series nozzles are made from two pieces, with a solid copper shell & a brass internal, designed for fast starts and lower gas consumption.



NOZZLE			GAS PRESSURE (PSI)			GAS CONSUMPTION (CFH)		
CUTTING OXYGEN DIAMETER	P/N	METAL THICKNESS	CUTTING OXYGEN	FUEL GAS	PRE-HEAT OXYGEN	CUTTING OXYGEN	FUEL GAS	PRE-HEAT OXYGEN
.250	.250-2-285N	14"-20"	25-45	15-25	25-50	1500-2400	60-120	250-400
.312	.312-2-285N	20"-26"	25-45	15-25	25-50	2300-3500	60-120	250-401
.375	.375-2-285N	26"-34"	25-45	15-25	25-50	2300-3900	60-121	250-402
.437	.437-2-285N	34"-48"	25-45	15-25	25-50	2400-4500	60-122	250-403

1808 CUTTING NOZZLE

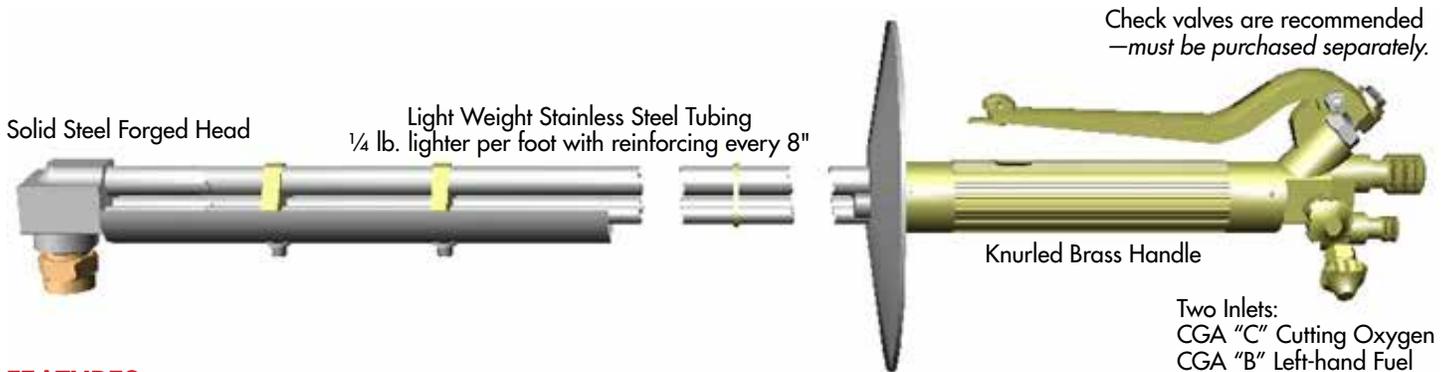
1808 series nozzles are single piece solid copper nozzles. The single piece solid copper design allows for rapid heat transfer and longer rugged life.



NOZZLE			GAS PRESSURE (PSI)		GAS CONSUMPTION (CFH)		CLEANING DRILL SIZE	
SIZE	P/N	METAL THICKNESS	OXYGEN	NATURAL GAS	OXYGEN	NATURAL GAS	PREHEAT	CUTTING
30	1808-30	20"-40"	65	21	5400	330	#50	19/64"
40	1808-40	40"-50"	70	23	7700	360	#49	"X"
50	1808-50	OVER 50"	75	24	9700	375	#47	1/2"

EC-69F HEAVY DUTY EMERGENCY CUT-OFF TORCH—CUTS UP TO 30"

The Flame Tech's EC-69F is the latest state-of-the-art steel mill emergency cut-off torch. It offers the features and operational characteristics of a machine cut-off, yet is light enough to be easily handled.



FEATURES

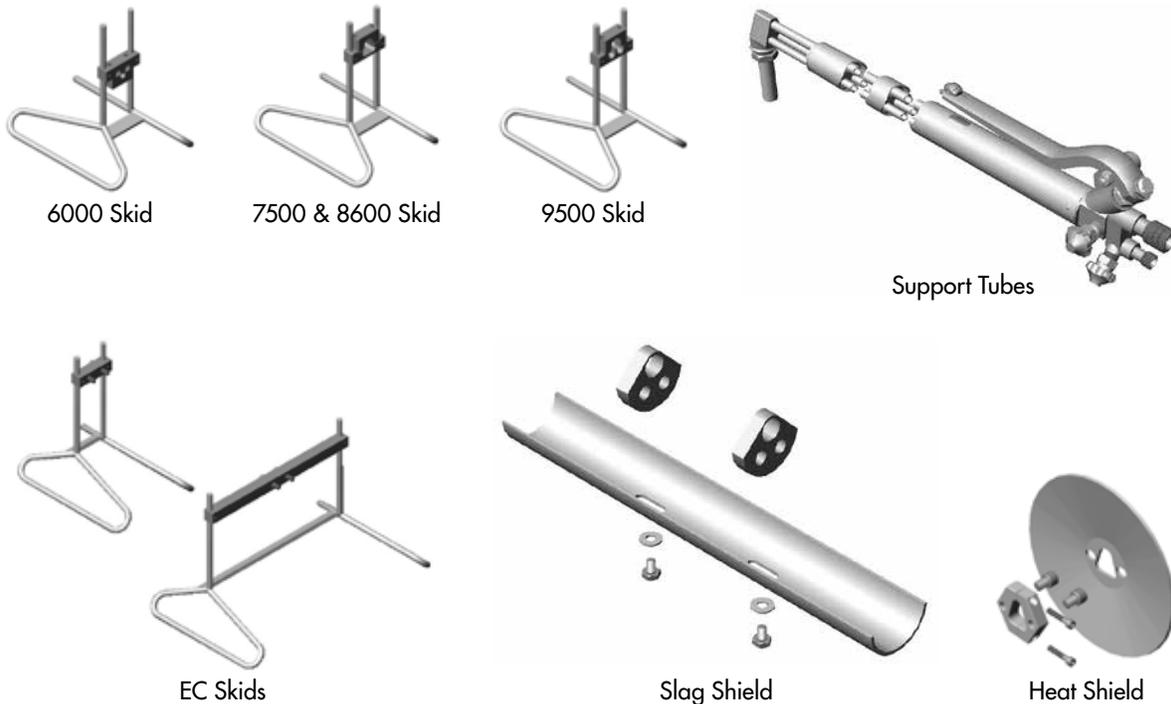
- **Custom Lengths**—For 10' or longer, a reinforcing tube is recommended.
- **Light Weight**—Lengths up to 16' can be handled by a single operator.
- **Fast Start**—Rapid preheat, using cutting oxygen to assist start, decreases overall cutting time.
- **Improved Cut Quality**—By utilizing the same tip as our caster torches, a superior edge is achieved.
- **Longer Stand-Off**—Gives longer tip life and less torch damage and wear.



EC-69F NOZZLES

PART NUMBER (GEGA® COMPATIBLE)		SMFNL-1 (SDS-26F)	SMFNL-2 (SDS-33F)	SMFNL-3 (SDS-36F)	SMFNL-4 (SDS-403F)
	THICKNESS	in	2-30	2-30	2-30
	mm	50-250	50-750	50-750	50-750
CUTTING OXYGEN PRESSURE	psi	140-250	115-200	115-160	130-175
	bar	9.7-17.4	8.0-13.9	8.0-11.1	9.0-12.0
NATURAL GAS PRESSURE	psi	15-30	15-30	15-30	15-30
	bar	1.0-2.1	1.0-2.1	1.0-2.1	1.0-2.1
CUTTING SPEED @ 20°C (170°F)	in/s	6-11	7-9	7-9	7-11
	mm/s	150-280	180-240	180-240	180-280
CUTTING SPEED @ 750°C (1400°F)	in/s	11-17	12-16	12-16	12-20
	mm/s	280-440	300-400	300-400	300-520
NOZZLE DISTANCE	in	4-6	4-6	4-6	4-6
	mm	100-140	100-140	100-140	100-140

CUTTING TORCH SKID ASSEMBLIES & ACCESSORIES



PART #	DESCRIPTION
84925003	SKID ASSEMBLY FOR 9500 & 9600 SERIES TORCHES
84901011	SKID CLAMP ONLY FOR 9500 & 9600 SERIES TORCHES
84925002	SKID ASSEMBLY FOR 6500, 8600 & 7500 SERIES
84901010	SKID CLAMP ONLY FOR 6500, 8600 & 7500 SERIES TORCHES
84980001	SKID ASSEMBLY FOR 6000 SERIES TORCHES, EXCEPT 6500
84901012	SKID CLAMP ONLY FOR 6000 SERIES TORCHES, EXCEPT 6500
84901005	SKID ONLY FOR 6000, 7500, 8500, 8600, 9500 & 9600 TORCHES
EC-SKID	SKID ASSEMBLY FOR EC SERIES TORCH
84901013	SKID ONLY FOR EC TORCH - WIDE
84901007	CLAMP ONLY FOR EC TORCH - WIDE
EC-L-SKID	SKID ASSEMBLY FOR EC SERIES 34" LONG FOR "I" BEAM BILLETS
84901009	SKID ONLY FOR 34" LONG FOR EC-L TORCH
84901015	CLAMP ONLY FOR EC 34 FOR EC-L TORCH
83900002	SLAG SHIELD
93001129	SUPPORT TUBE
82700005	HEAT SHIELD ASSEMBLY
82700002	HEAT SHIELD CLAMP ONLY FOR 82700005
82700001	HEAT SHIELD ONLY FOR 82700005

Heavy Duty Line & Station Equipment

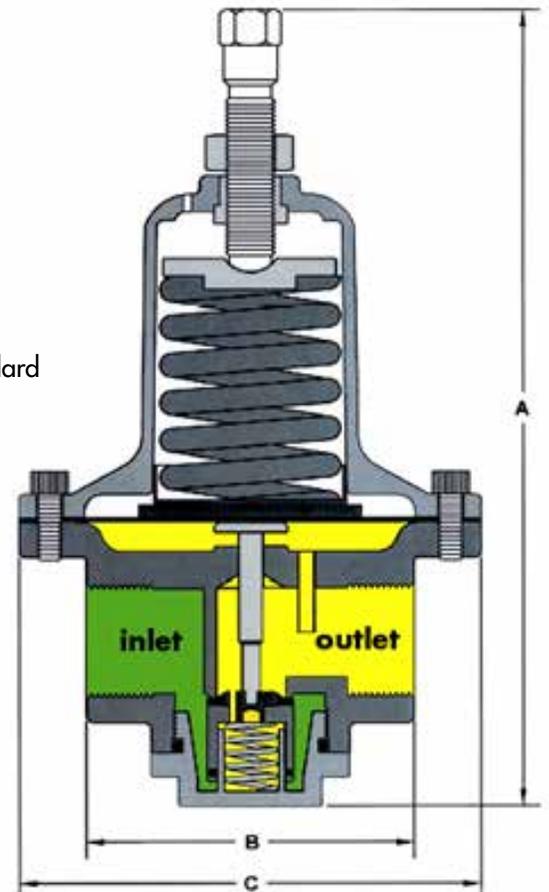
FLAME TECH® LINE REGULATORS (FTLR) SERIES

FTLR regulators provide reliable, precise pressure control in the most demanding applications. Flame Tech's FTLR regulators have a fully balanced design which virtually eliminates delivery pressure fluctuations due to inlet pressure variations. All regulators are 100% factory tested.



MATERIALS

- Body & Spring Chamber: Forged Brass
- Diaphragm: GLT Viton on Nomex Diaphragm
- Adjustment Spring : Color Coded, Chrome Vanadium
- Valve Spring: 302 Stainless Steel
- Other Valve Parts: Brass
- Seat & O-Rings: GLT Viton is standard



FEATURES

Optimized venturi and spring design assures high flow with extremely low droop characteristics.

Solid non-tied diaphragm and all brass construction guarantees leak-free long lasting performance.

Maintains a steady down stream pressure across a range of inlet pressures commonly provided by a cryogenic bulk tank.

Corrosion resistant stainless steel trim.

TECHNICAL DATA

Maximum inlet pressure is 400 PSIG.

Effect of inlet pressure variation less than .25 PSIG/100 PSIG change.

Cleaned per CGA G-4.1 for oxygen service.

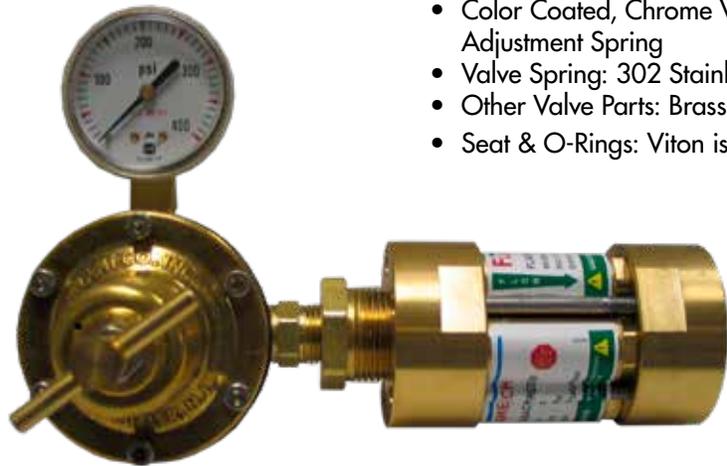
FLAME TECH® STATION REGULATORS (FTSR) SERIES

Flame Tech® Station Regulators (FTSR) series provide reliable, precise pressure control in the most demanding applications. Flame Tech's FTSR regulators have a fully balanced design which virtually eliminates delivery pressure fluctuations due to inlet pressure variations. All regulators are 100% factory tested.

FTSR12 Heavy Duty Oxygen Station Regulator with CGA "C" Hose Fitting



FTLR12C Heavy Duty Cutting Oxygen Station Regulator with Flame Tech's High-Flow DEMAX Flashback Arrestor (see safety accessories for DEMAX)



MATERIALS

- Body & Spring Chamber: Forged Brass
- Diaphragm: GLT Viton on Nomex Diaphragm
- Color Coated, Chrome Vanadium Adjustment Spring
- Valve Spring: 302 Stainless
- Other Valve Parts: Brass
- Seat & O-Rings: Viton is standard

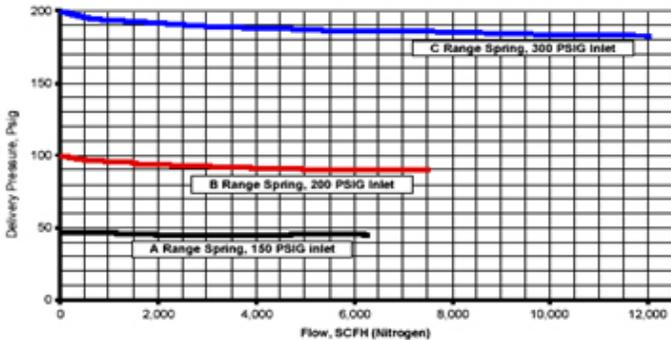
	P/N	DESCRIPTION
Fuel Gas	FTSR12-A	5-55 PSI REGULATOR, 1/2"NPT INLET, LH CGA "B" HOSE FITTING COMPLETE WITH FT5575-GP PRESSURE GAUGE, 1-60 PSI RANGE
Oxygen	FTSR12-B	40-110 PSI REGULATOR, 1/2"NPT INLET, RH CGA "B" HOSE FITTING, COMPLETE WITH FTS1679 PRESSURE GAUGE, 1-200 PSI RANGE
	FTSR12-C	100-200 PSI REGULATOR, 1/2"NPT INLET, RH CGA "C" HOSE FITTING, COMPLETE WITH FT15578-GP PRESSURE GAUGE, 1-400 PSI RANGE

HEAVY DUTY STATION REGULATORS

Flame Tech® Station Regulators (FTSR) series provide reliable, precise pressure control in the most demanding applications. Flame Tech's FTSR regulators have a fully balanced design which virtually eliminates delivery pressure fluctuations due to inlet pressure variations. All regulators are 100% factory tested.

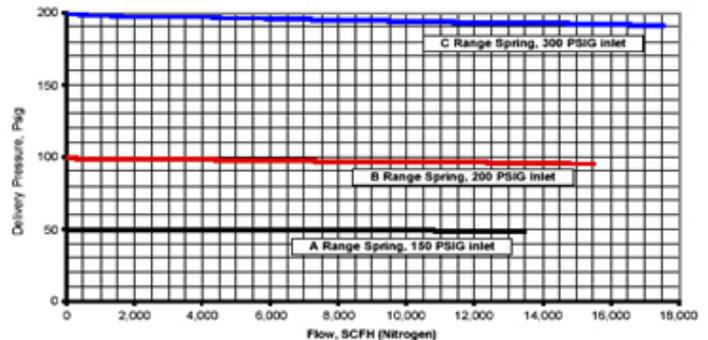
FLOW CURVE

FTLR14 (1/4") & FTLR12 (1/2")



FLOW CURVE

FTLR34 (3/4") & FTLR1 (1")



Dimensional Data

Size	A	B	C	Cv
1/4", 3/8" & 1/2" 2BSPT & 4BSPT	5 - 11/16"	2 - 25/32"	3 - 3/16"	3.6

Cv is stated at maximum inlet pressure and valve full open

Size	A	B	C	Cv
3/4" & 1" 6BSPT & 8BSPT	8 - 7/8"	3 - 11/32"	4 - 11/16"	5.8

ORDERING INFORMATION FTLR SERIES REGULATORS

FLAME TECH	DELIVERY PRESSURE RANGE (PSIG)	PRESSURE GAUGE RANGE (PSI)*	GAUGE PART #	INLET & OUTLET (FNPT)
FTLR12A	5-55	1-60	FT5575-GP	1/2"
FTLR12B	40-110	1-200	FTS1679	1/2"
FTLR12C	100-200	1-400	FT15578	1/2"
FTLR34A	5-55	1-60	FT5575-GP	3/4"
FTLR34B	40-110	1-200	FTS1679	3/4"
FTLR34C	100-200	1-400	FT15578	3/4"
FTLR1A	5-55	1-60	FT5575-GP	1"
FTLR1B	40-110	1-200	FTS1679	1"
FTLR1C	100-200	1-400	FT15578	1"

GAUGES

Gauges are sold separately. Order recommended gauge with selected regulator.

- FT5575-GP 0-60 psi
- FTS1679 0-200 psi
- FT15578 0-400 psi

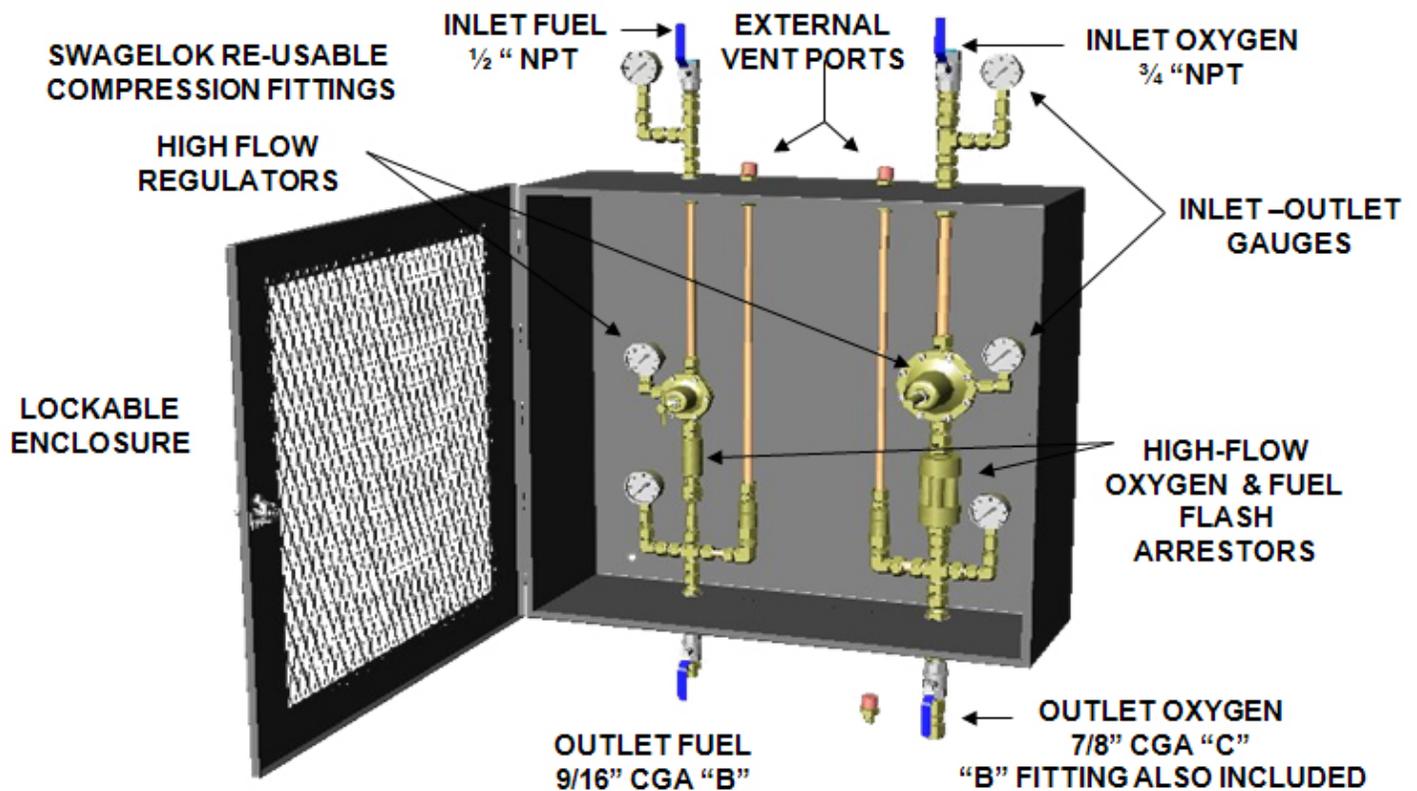


Drop Station Regulator Enclosures

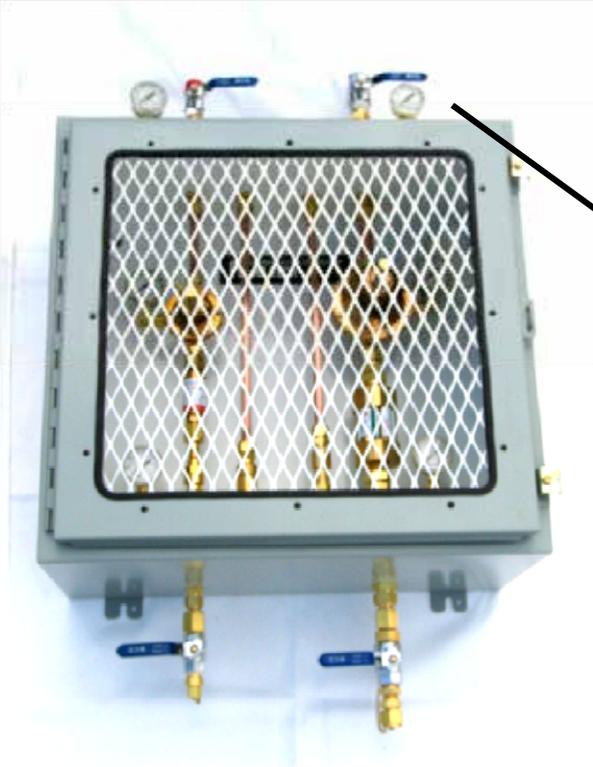
2 HOSE OPERATION (DSE-2)

The DSE-2 contains one (1) high flow cutting oxygen regulator and one (1) high flow fuel gas regulator. The DSE-2 also contains (1) DG91N (fuel) and (1) DEMAX (oxygen) Flash Arrestors as well as shutoff ball valves mounted outside the DSE-2 enclosure. Relief valves with an external vent port are connected to the fuel and oxygen lines. Swagelok re-usable compression fittings are used throughout the system to eliminate Teflon thread tape and to allow quick replacement of failed components. A lockable enclosure with an expanded-metal viewport allows operators to view the pressure gauges while allowing ventilation of the cabinet for safety purposes. Outlet valves come with end caps. The standard connector configuration for the DSE-2 is as follows:

- 3/4" NPT Female oxygen inlet connection
- CGA "B" Male (9/16-18 UNF) oxygen outlet connection
- CGA "C" Male (7/8-14 UNF) adapter fitting is included with the DSE-2 to allow connections to CGA "C" hose fittings.
- 1/2" NPT Female fuel gas inlet connection
- CGA "B" LH Male (9/16-18 LH UNF) fuel gas outlet connection



DROP STATION REGULATOR ENCLOSURE DSE 2



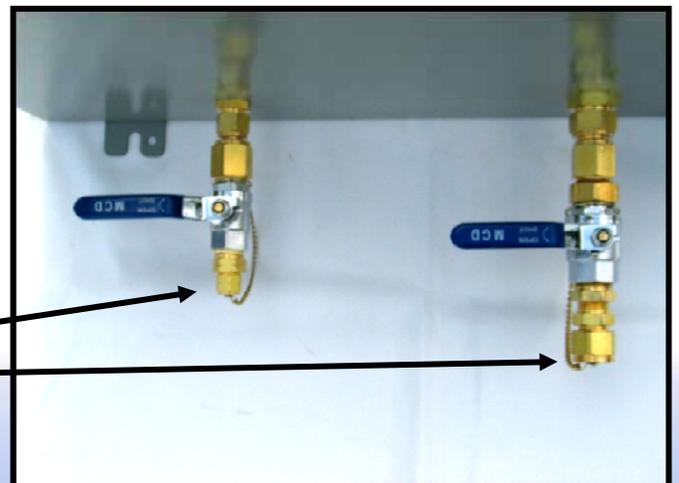
Inlet Pressure Gauges
c/w shut-off valves



In-Line Flash Arrestors
DG91N Fuel Gas &
DEMAX Oxygen



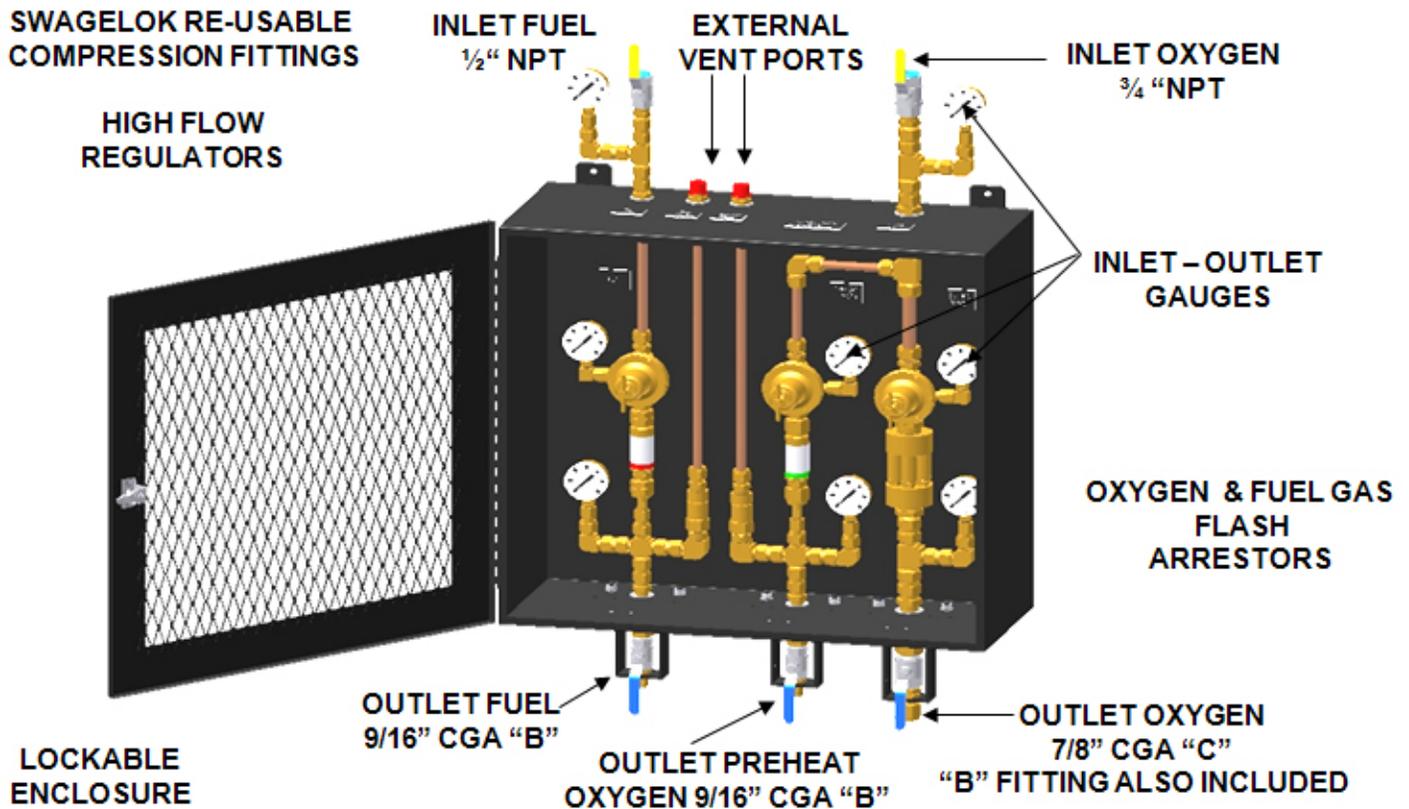
Outlet valves c/w end caps



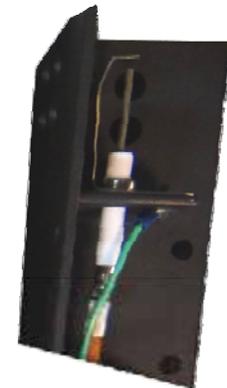
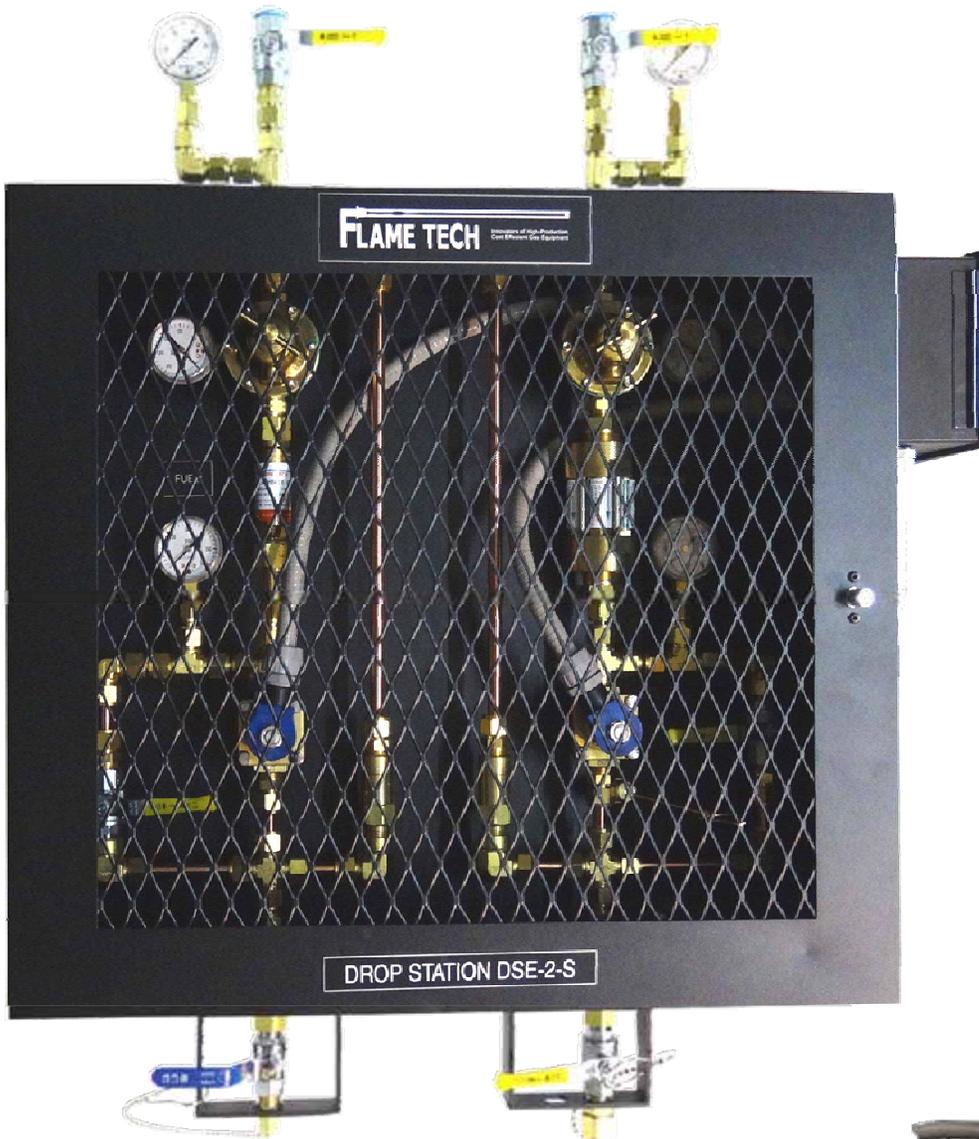
3 HOSE OPERATION (DSE-3)

The DSE-3 contains one (1) high flow cutting oxygen regulator, one (1) high flow pre-heat oxygen regulator, and one (1) high flow fuel gas regulator. The DSE-3 also contains two (2) DG91N Flash Arrestors (one pre-heat oxygen, one fuel) and one each DEMAX Cutting Oxygen Flash Arrestor as well as shutoff ball valves mounted outside the DSE-3 enclosure. Relief valves with external vent ports are connected to the fuel line and pre-heat oxygen lines. Swagelok re-usable compression fittings are used throughout the system to allow quick replacement of failed components. A lockable enclosure with an expanded-metal viewport allows operators to view the pressure gauges while allowing ventilation of the cabinet for safety purposes. Multiple pressure gauges provide readings on supply pressures, regulator pressures, and post-flash arrestor pressures to provide accurate readings throughout the system. The standard connector configuration for the DSE-3 is as follows:

- 3/4" NPT Female oxygen inlet connection
- CGA "C" Male (7/8-14 UNF) cutting oxygen outlet connection
- CGA "B" Male (9/16-18 UNF) pre-heat oxygen outlet connection
- 1/2" NPT Female fuel gas inlet connection
- CGA "B" LH Male (9/16-18 LH UNF) fuel gas outlet connection



DROP STATION ENCLOSURE WITH REMOTE IGNITION (DSE-2-S)



Remote Igniter



Remote Ignition Control Box

Drop Station Strand, Strut Mount

TWO HOSE OPERATION (DSS-2)

STANDARD FEATURES

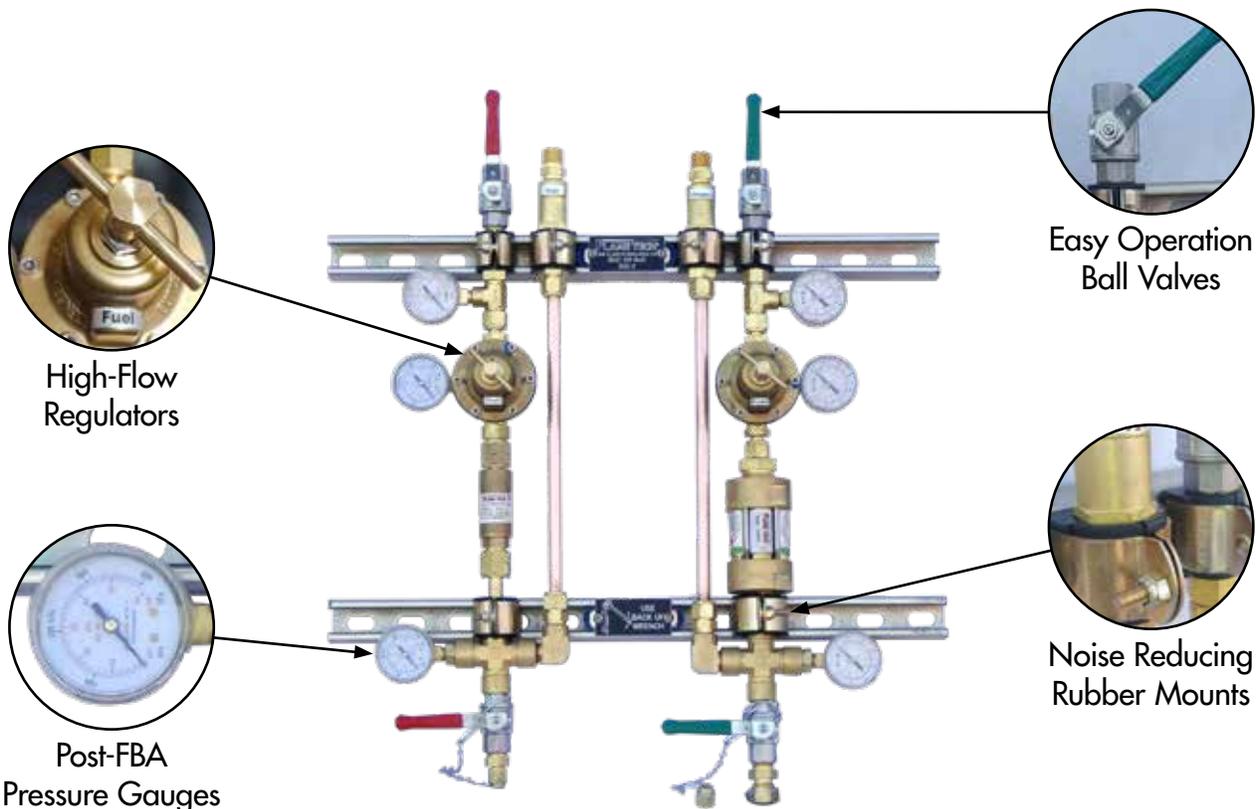
- 1-5/8" standard strut channel rails for easy mounting on new or existing structures
- 1/2" NPT inlets
- Ball valve inlets and outlets for easy operation
- Gauges show pressure drop across flash arrestors. Indicates when replacement is needed
- Swagelok® compression fittings allows for easy repair of individual components
- Rubber strut clamps securely isolate piping from strut channel

OXYGEN STRAND

- High flow FTLR12C preheat/cutting oxygen regulator
- DEMAX oxygen flash arrestor
- 250 psi safety relief valve with NPT vent pipe connection
- CGA "C" male (7/8"-14 UNF) oxygen outlet connection
- Optional CGA "B" male (9/16"-18 UNF) oxygen outlet fitting included

FUEL STRAND

- High flow FTLR12A fuel gas regulator
- DG91N fuel flash arrestor
- 75 psi safety relief valve with NPT vent pipe connection
- CGA "B" LH male (9/16"-18 LH UNF) fuel gas outlet connection



DROP-IN REPLACEMENT REGULATORS

FLAME TECH introduces the *GMR* (Gas Mizer Regulator) for Drop-In GeGa® compatible regulator replacement. The *GMR* series regulators are designed primarily for heavy duty manifold regulation of the primary Cutting Oxygen, Fuel Gas and the Preheat Fuel Gases for the Strand Cut-Off machine systems. The NEW *GMR* Series regulators have a balanced seat for constant delivery pressure regardless of inlet fluctuations. Constructed with oxygen compatible materials.

Replace your old GeGa® Regulators
with Flame Tech's NEW Drop-In *GMR* Series
(Same Dimensions & Fittings for ease of installation)



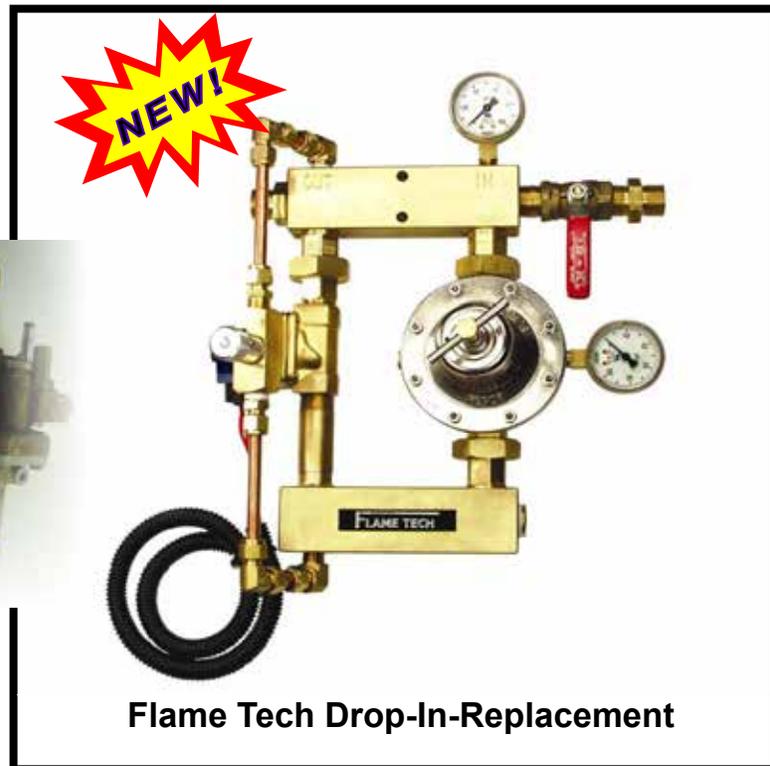
Replace



Your old GEGA®



Regulators



Flame Tech Drop-In-Replacement

FEATURES:

- Inlet and Outlet have $\frac{3}{4}$ NPT Female connections for quick drop in replacement and ease of service.
- Easily serviced and parts readily available
- Maintains a steady down stream of pressure across a range of inlet pressures commonly provided by a cryogenic bulk tank.
- Large seat and diaphragm areas provide high capacity with sensitive control of delivery pressure with low falloff.

GEGA® COMPATIBLE DROP-IN REPLACEMENT REGULATORS

FLAME TECH® GMR series regulators are designed primarily for heavy duty regulation of a variety of gases in industry piping systems, steel mill systems, and manifold systems. The GMR Series Regulators provide reliable, precise pressure control in the most demanding applications.

FEATURES:

Optimized venturi and spring design assures high flow with extremely low droop characteristics.

Solid non-tied diaphragm and all brass construction guarantees Leak-free long lasting performance.

Maintains a steady down stream pressure across a range of inlet pressure commonly provided by a cryogenic bulk tank.

TECHNICAL DATA:

Maximum inlet pressure is 400 psig

Effect of inlet pressure variation less than .25 Psig/100 Psig change

Cleaned per CGA G-4.1 for oxygen service

ORDERING INFORMATION

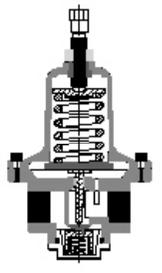
PART #	DESCRIPTION
GMR-F	Fuel Gas Regulator Replacement System
GMR-PO	Preheat Oxygen Regulator Replacement System
GMR-CO	Cutting Oxygen Regulator Replacement System



GMR-F & GMR-PO



GMR-CO
System uses
Flame Tech's New
GMR Series of Regulators



See Heavy Duty
Steel Mill
Regulators

GeGa® is a registered trademark for GeGa Lotz GmbH. Flame Technologies® is not affiliated or endorsed by the aforementioned company.

MANIFOLDS & GAS FLOW SYSTEMS

Flame Tech manufactures a complete line of standard and Customized Manifold Stations for Steel Mill and Foundry applications. When was the last time you checked your manifold for accuracy and safety requirements?

MANIFOLDS

Flame Tech’s manifold systems regulate pressures and flows of fuel gas and oxygen from the main supply to the cutting torches. Flame Tech’s systems are designed for new applications, retrofit of existing systems, or turn-key replacements.



GAS MIZER™

LOWER GAS CONSUMPTION



Manifolds incorporating our “GAS MIZER” option manage Fuel Gas and Oxygen flow, which reduce gas consumption during torch stand-by mode. 70+% reduction in gas consumption has been realized in many applications saving from \$10K to several \$100K for Steel Mill caster operations and emergency cut-off stations.

DOES YOUR CASTER GAS CONTROL PANEL LOOK LIKE THIS?

WHEN IT COULD LOOK LIKE THIS!



BEFORE

AFTER

PHOTO OF TYPICAL CASTER REGULATOR CONTROL SYSTEM

PHOTO FEATURES FLAME TECH 4-TORCH GAS MIZER FTGM-4

Every installed part is cleaned for oxygen service and meets OSHA and UL requirements

4-Torch GAS MIZER™ FTGM-4



Expanded Metal Doors allow viewing of gages without opening locked doors



3/4" NPT outlet connections grouped by torch



All brass and copper components for long life. Swagelok reusable fittings for quick component replacement



Control Panel pre-wired and tested



1-1/2" NPT Inlet Connections for Oxygen and Fuel



Every installed part is cleaned for oxygen service and meets OSHA and UL requirements

QUICK DISCONNECT Swing-Away-Torch Holder System

Swing away torch holder assembly is designed to Kick-Up and swing away in the event of billet impact PLUS, quick disconnect torch change out system.

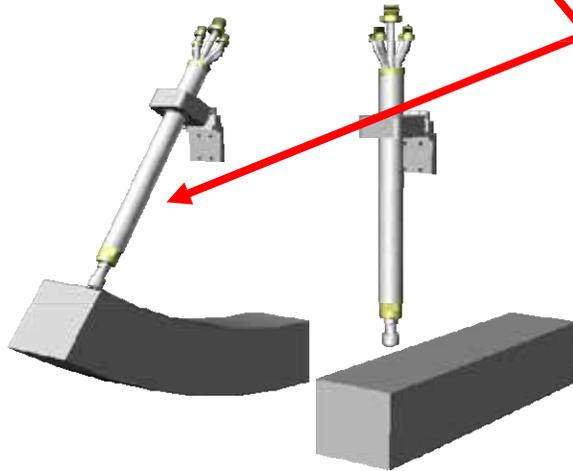


FEATURES

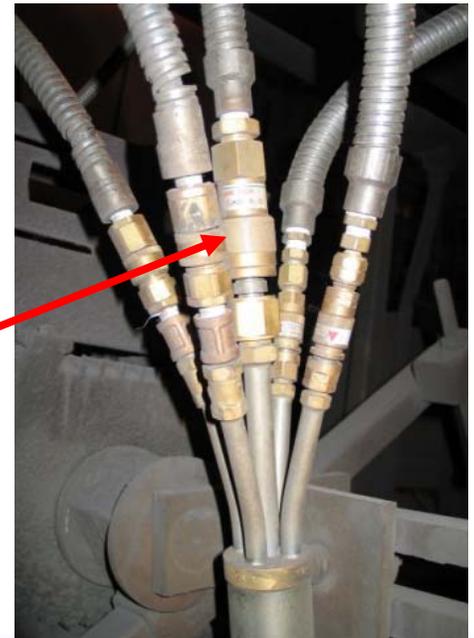
Master header manifold block for Stainless Armored hose connections



Self-centering torch holder assembly designed for quick change out & swing out



Quick Disconnects on Torch for rapid change-out, plus high volume flashback arrestors located at header.



ORDERING INFORMATION

CONTACT FLAME TECH FOR A CUSTOM PROPOSAL

Swing-Away-Torch Holder

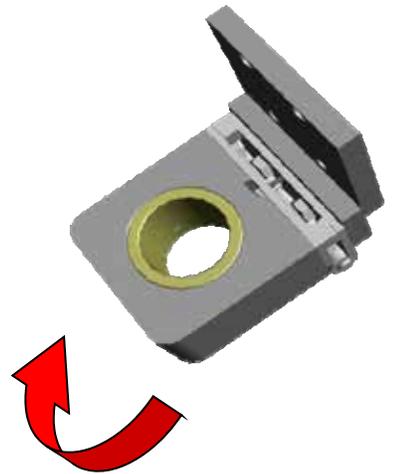


This new swing away torch holder assembly is designed to Kick-Up and swing away in the event of billet impact.



PN# TC-138: Torch Collar Fits any 1 3/8" Barrel Torches

PN# TC-2: 2" Torch Collar Fits any 2" or 50 mm Torches



Torch quickly pulls up and away in the event replacement is necessary.

Flame Tech Swing-Away-Torch-Holder

This new Swing-Away-Torch assembly is designed to swing up the torch in the event a warped or rogue billet hits the torch reducing torch damage. The Brass Collar attaches to the torch which allows for quick torch interchangeability, replacement or maintenance.

ORDERING INFORMATION

Item	Part #	Description
1	SATH-2	Swing-Away-Holder assembly with 2" brass collar
2	SATH-138	Swing-Away-Holder assembly with 1-3/8" brass collar
3	TH-1	Torch Holder Swing-Away Block Only
4	TC-2	Torch Collar Brass 2"
5	TC-138	Torch Collar Brass 1-3/8"

TUNDISH PLUGS



STEEL INDUSTRY PRODUCTS & SERVICES



SOLID COPPER
2 1/2" – 5 1/2"

Tundish Plugs

Flame Manufactures solid Copper Plugs In sizes 2 1/2" to 5 1/2". We also can manufacture custom sizes upon request. Contact Flame Tech for pricing and delivery.

***BIG OR SMALL
WE FIT THEM ALL***

Safety Accessories

WHAT ARE FLASHBACK ARRESTORS

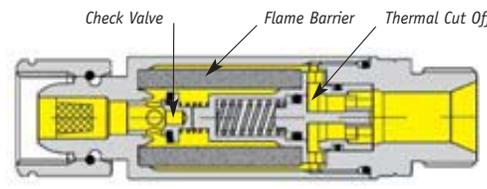
Flashback Arrestors prevent reverse flow of gases with built-in check valves and extinguishes flashback fire with a stainless steel sintered element.

HOW FLASHBACK ARRESTORS WORK



Torch Type (GG)

Regulator Type (DGN)

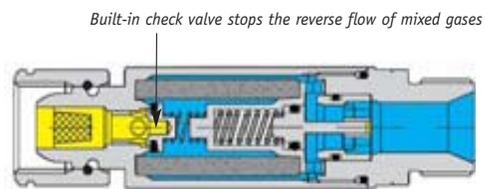


Normal Gas Flow →

Normal gas flow shown in yellow flowing through the flashback arrestor to torch, hose, or pipeline.



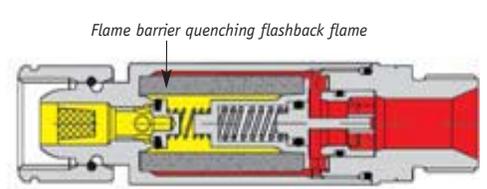
High Volume Type for In-Line and Point of Supply (SIMAX 3 & 5)



Reverse Gas Flow ←

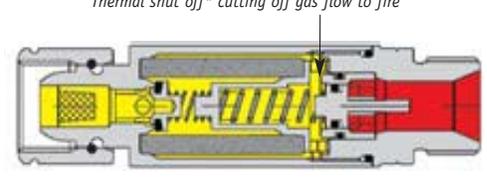
Here the reverse flow of an explosive mixture of gases depicted in blue is stopped by the flashback arrestor's built in check valve. Reverse flow of gases is often caused by operator error, improper gas pressures, faulty or defective equipment, and/or obstruction at or after the point where gases mixed.





Flashback ←

The next step is the ignition of the mixed gases called a flashback shown here in red. The flashback causes a rapid flame propagation upstream to the equipment and gas supply. Here it is stopped by the flame barrier. Flashback can cause serious personal injury and/or equipment damage.



Hose Burn Back ←

Hose burn back shown here in red is an oxygen enriched fire or fuel gas decomposition in the hose or pipeline which flows back to the equipment and gas supply. In the illustration the hose burn back is stopped by the thermal cut off.

* Regulator and Point of Supply (in line) arrestors only



TORCH & REGULATOR FLASHBACK ARRESTORS

Prevent reverse flow of gases with built-in check valves. Extinguishes flashback fire with stainless steel sintered element.

FEATURES

- GG/DGN Series: For use up to size 6 cutting tip.
- DG91UA/DG91N Series: For use up to size 12 cutting tip.
- Quality Manufactured – internal valve and spring made from stainless steel for longer life.
- 100% tested
- Conforms to OSHA Regulations

STANDARD FLOW (UP TO SIZE 6 TIP)

GG AIRFLOW

INLET PRESSURE (PSI)	AIRFLOW (CFH)
7.3	100.0
14.5	197.0
21.8	309.0
36.3	521.0
72.7	929.0

DGN AIRFLOW

INLET PRESSURE (PSI)	AIRFLOW (CFH)
7.3	141.0
14.5	268.0
21.8	390.0
36.3	651.0
72.7	1153.0



HIGH FLOW (UP TO SIZE 12 TIP)

DG91N & DG91UA AIRFLOW

INLET PRESSURE (PSI)	AIRFLOW (CFH)
7.3	231.0
14.5	465.0
21.8	725.0
36.3	1041.0
72.7	1933.0



Torch Type (DG91UA)



Regulator Type (DG91N)



IN LINE AND POINT OF SUPPLY—DEMAX SERIES

The DEMAX Flame Tech Flash Arrestors are ideal for high volume gas flow applications in pipelines, manifolds and regulators. The DEMAX includes an inlet filter, reverse flow check valve, flame barrier, and thermal cut off in one compact brass body.

APPROVAL & SPECIFICATIONS

- Meets ANSI Z49.1 1999 Safety Guide Lines, OSHA, NFPA Guide Lines.
- UL Listed 23Y5.

SAFETY ELEMENTS

- One Inlet Filter Included (100 micron)
- Reverse Flow Check Valve
- Flame Barrier
- Thermal Cut Off

MATERIALS

- BODY: Brass, Alloy 360
- INTERNALS: Brass
- FLAME BARRIER: Stainless Steel
- ELASTOMERS: Neoprene (NPR)



DEMAX AIR FLOW

INLET PRESSURE (PSIG)	AIRFLOW (CFH)
4.6	265
14.6	920
21.9	1593
36	2100
72	4000
109	6125
145	8200
290	13,000

PART NUMBERS

- 0901-7000 Fuel Gas, 1" Female NPT Inlet/Outlet, DEMAX Style
- 0901-7001 Oxygen, 1" Female NPT Inlet/Outlet, DEMAX Style

WORKING PRESSURE

GAS	PSIG
ACETYLENE	15
HYDROGEN	50
LPG	50
OXYGEN	143



IN LINE AND POINT OF SUPPLY — SIMAX SERIES

The (SIMAX) Flame Tech Flash Arrestor series provide a full range of dry type (no water or fluid to check or replenish) flashback, gas reverse flow, and hose burn back protection in a compact economical package. SIMAX series flashback arrestors are approved safety devices under ANSI Z49.1999 safety guidelines and help meet OSHA, NFPA, and other strict industry Safety standards (see listings of approvals and specifications below). They are ideal for high volume gas flow applications in pipelines and manifolds. SIMAX units available in sizes 3, 5 & 8 with optional pipe away relief valve assemblies.

APPROVAL & SPECIFICATIONS

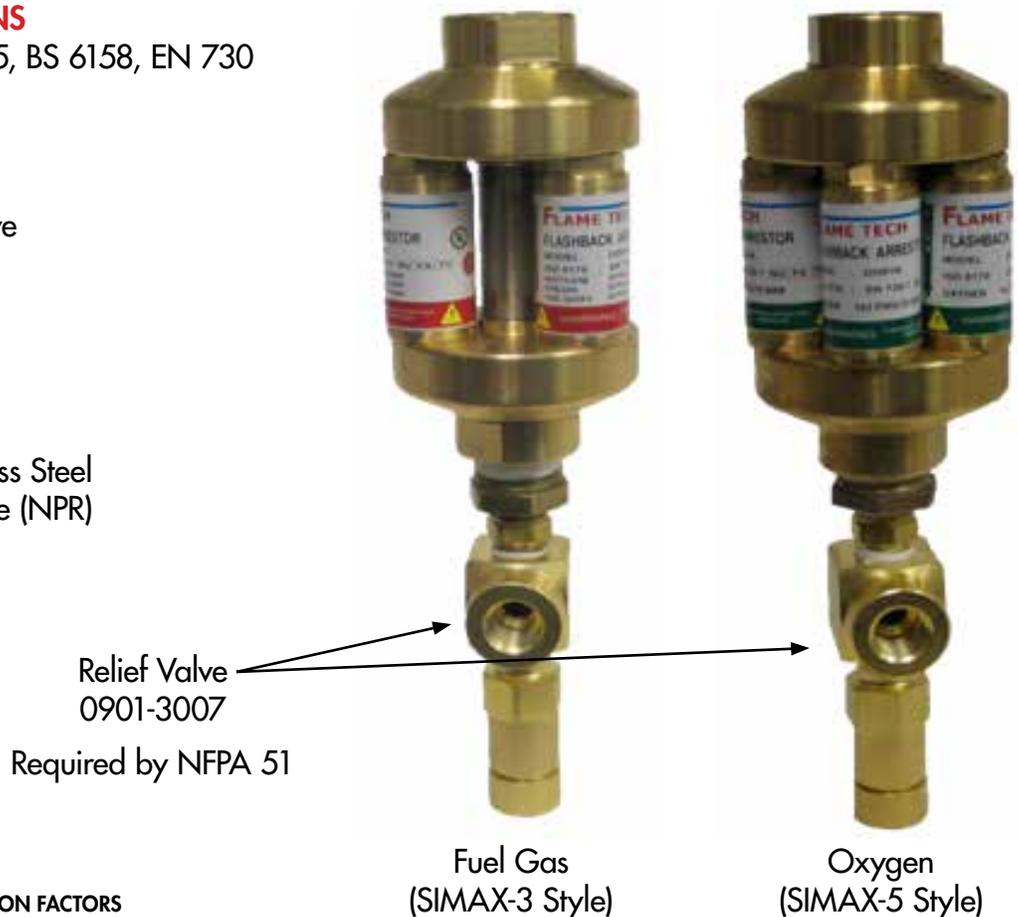
- UL Listed 23Y5, ISO 5175, BS 6158, EN 730 (BAM / DIN), AS 4603

SAFETY ELEMENTS

- Inlet filter (100 micron)
- Reverse Flow Check Valve
- Flame Barrier
- Thermal Cut Off Valve

MATERIALS

- BODY: Brass, Alloy 360
- INTERNALS: Brass
- FLAME BARRIER: Stainless Steel
- ELASTOMERS: Neoprene (NPR)



GAS TYPE CONVERSION FACTORS

GAS TYPE	FACTOR
ACETYLENE	1.05
BUTANE	0.70
HYDROGEN	3.79
PROPYLENE	0.82
METHANE/NATURAL GAS	1.34
OXYGEN	0.95
PROPANE	0.80

AIR FLOW (CFH)

PSIG	21.9	36.5	73	145.9	286
BAR	1.5	2.5	5	10	20
SIMAX-3	1904	2618	5202	9860	20400
SIMAX-5	3060	4352	8670	16150	33150
SIMAX-8	5168	5670	13872	26180	53040

High Volume in line Flash Arrestors and Relief Valves

PART #	DESCRIPTION
0901-3000	Fuel Gas, 1" NPT, SIMAX 3 Style
0901-3001	Oxygen, 1" NPT, SIMAX 3 Style
0901-3007	Propylene, Pipe-away "T" Relief Valve (75psi), SIMAX 3 Style
0901-3010	Fuel Gas, Flash Arrestor with attached Relief Valve, 1" NPT, SIMAX 3 Style
0901-3011	Oxygen, Flash Arrestor with attached Relief Valve, 1" NPT, SIMAX 3 Style
0901-5010	Fuel Gas, Flash Arrestor with Relief Valve, 1" NPT, SIMEX 5 Style
0901-5011	Oxygen, Flash Arrestor with Relief Valve, 1" NPT, SIMAX 5 Style

AIR FLOW TABLE (FT³ /h)

PSIG	21.9	36.5	73	145.9	286
BAR	1.5	2.5	5	10	20
SIMAX-3	1904	2618	5202	9860	20400
SIMAX-5	3060	4352	8670	16150	33150
SIMAX-8	5168	5670	13872	26180	53040

GAS TYPE CONVERSION FACTOR

ACETYLENE	1.05
BUTANE	0.7
HYDROGEN	3.79
MAPP / PROPYLENE	0.82
METHANE/NATURAL GAS	1.34
OXYGEN	0.95
PROPANE	0.8

QUICK CONNECTORS

FEATURES

- Long lasting stainless steel pin connection
- Automatic gas cut off feature to positively shut off the gas supply when disconnecting
- All brass construction with durable stainless steel coupling pins reduces breakage and wear plus they meet ISO 7289, EN561 standards
- Double O-ring seal
- Color coded for gas service
- Quick connectors available with built-in flashback arrestors

TORCH TYPE QUICK CONNECTORS

DKG/D1 CGA "B" Size, 9/16" UNF. Fuel Gas & Oxygen with Automatic Gas Shut-Off Quick Disconnect System.



Oxygen	0901-8101
Fuel Gas	0901-8100
Oxy-Fuel Set	0901-0092

PINS

For Torches use D1 Pin.
For Regulators use D4 Pin.



D1 Torch D4 Regulator

D1 Pin Oxygen	0901-0008
D1 Pin Fuel Gas	0901-0003
D4 Pin Oxygen	0901-0009
D4 Pin Fuel Gas	0901-0005

GKD/G1 "C" Size, 7/8" UNF.
Fuel Gas & Oxygen with Automatic Gas Shut-Off Quick Disconnect System. For use with 3/8" hose.



GKD/G1 Oxygen	0901-6001
GKD/G1 Fuel Gas	0901-6000
G1 Pin Oxygen	0901-0004
G1 Pin Fuel Gas	0901-0006

Inline Filters

For installation in the oxygen & gas supply lines to protect flash arrestors, regulators and equipment against contaminants. Aids in increasing the service life of downstream fittings and equipment.

Requires complete disconnection from pipe to change cartridges. One replacement cartridge required per filter.

GENERAL DESIGN

- Brass Body
- Exchangeable Sintered Brass Cartridges
- 80 Micron Filtering
- 580 PSI Max Working Pressure
(withstands up to 600 PSI)

CONNECTIONS

- 1" NPTF / 1" NPTF Standard
- Custom connections available

OXYGEN MODEL USABLE GASES

- Oxygen
- Inert

FUEL MODEL USABLE GASES

- Acetylene
- Natural Gas
- Propane
- Alternate Fuel Gases

OXYGEN FILTER

Complete Assembly P/N: 0901-6515

Replacement Cartridge P/N: 0901-6335

FUEL GAS FILTER

Complete Assembly P/N: 0901-6500

Replacement Cartridge P/N: 0901-6330



REPLACEMENT CARTRIDGES FOR DISCONTINUED FILTER MODELS

Replacement Oxygen Cartridge P/N: **0901-5335**

Replacement Fuel Gas Cartridge P/N: **0901-5330**

"T" style filter assemblies with removable canisters are discontinued. Replacement cartridges may still be purchased.



Discontinued Models

FLAME TECH[®]

*Innovators of High Production,
Cost Effective Gas Equipment*

For customer support or to place an order

Call Toll Free: 800-749-3682

Fax Toll Free: 800-460-8474

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PURCHASE ORDERS: orders@flametechnologies.com

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