



239-193 AIR/ACETYLENE KIT

See previous page for additional tip sizes.

SILVER SMITH™ Designed for jewelers, silver smiths and hobbyists. (Excellent choice for light brazing and soldering.) Air-fuel torches deliver the ultimate in quality and flame control. The all metal torch provides strength and long life, while precision jeweled orifice tips produce a soft, consistent flame. The Silver Smith™ torch system is designed to work with air and acetylene gas.

FEATURE BENEFITS

- Nickel plated brass handle for strength and long service
- Heavy duty industrial regulators for added safety and service
- Synthetic sapphire orifices provide consistent accurate flame control, and are easily replaced if obstructed.

Outfit No.	Torch Handle	Tip	Regulator	Fits Tanks	Accessories
239-193	NE180A	NE180-00	30-15-520 CGA 520	"B" 40 cu. ft.	RL121 12.5' (3.8m) Hose N113A Lighter

Jewelry Repair & Manufacture, Hobby & Crafts, Metal Sculpture, Glass Blowing, Plumbing, Electronics & Repair



23-1001D

23-1001D

Works with any fuel gas and oxygen. Includes 11-1101C torch, #3-7 curved tips, 8' (2.4m) hoses and instruction manual. Packaged in display box as shown ("B" hose connections fuel 9/16"-18-LH, Oxygen 9/16"-18-RH).

239-047B with **BRITISH** hose connections (Fuel 3/8"-19 BSPF-LH, Oxygen 3/8"-19 BSPF-RH). Tips included #3-7.

239-048A with **EUROPEAN** hose connections (Fuel 3/8"-19 BSPF-RH, Oxygen 1/4"-19 BSPF-RH). Tips included #3-7.

23-1013A with **AUSTRALIAN** hose connections (Fuel 5/8"-18-LH, Oxygen 5/8"-18-RH). Tips included #3-7.

Outfit For Disposable Tanks 23-1014

Includes 249-499 preset oxygen regulator, 249-500 preset propane regulator, cylinder holder, 11-1101C torch, #5 tip, 8 ft. (2.4m) hoses and instruction manual. Allows maximum portability and may be used in locations where larger pressurized cylinders are not allowed.

Kit shown in inset photo above may be used with disposable MAPP® or propane and oxygen cylinders (Cylinders not included). **NOTE:** Disposable oxygen and fuel tanks may be purchased at most hardware locations. May not be used with LP Multi-Flame (Rosebud) tip.

23-1003B Includes 11-1101C torch, #3-7 tips, 30-15-520 acetylene regulator (for "B" 40 cubic foot tank), 30-20-540 oxygen regulator, reverse flow check valves, 8' (2.4m) covered hoses and instruction manual.

23-1003P Kit with regulator fitting for propane or larger industrial acetylene cylinders over 40 cubic feet. Includes 11-1101C torch, #3-7 tips, 30-15-510 fuel regulator, 30-20-540 oxygen regulator, reverse flow check valves, 8' (2.4m) covered hoses and instruction manual.

23-1003 Kit with regulator fitted for acetylene (for "MC" tank) 10 cu. ft. cylinder. Includes 11-1101C torch, #3-7 tips, 30-15-200 fuel regulator, 30-20-540 oxygen regulator, check valves, 8' (2.4m) covered hoses and instruction manual.

Conforms to
ANSI/UL
Std. 123



Intertek

3176109

OR

UL

Hoses may be connected to any standard oxy-fuel regulators. (no adaptors required)



The Little Torch[™] has unmatched flexibility - it can be used with several fuels including acetylene, hydrogen, propane, propylene, MAPP[®], or natural gas. It produces a perfectly controlled, completely stable flame hot enough to melt commercially weldable metals, glass and even ceramics. It may also be used with special heating tips to melt up to 3 oz. of gold or silver. Excellent for soldering platinum.

It's the complete works in a handy self-contained lightweight unit. These highly portable kits come complete with everything you need for your soldering or brazing operations. Kits include tanks, regulators, safety check valves, five tips, torch and hoses all in a handy carrying case. Oxygen and acetylene cylinders can be refilled at most welding supply stores (disposable LP tanks are not included). Kits weigh less than 32 lbs.



23-1015P
Propane Caddy

23-1015P Propane Caddy Includes 13558 (5 lb.) refillable propane tank, OC20 (20 cu. ft.) oxygen tank, 11-1101C torch with 8 ft. (2.4m) covered hoses, #3-7 tips, 30-20-540 oxygen regulator, 30-15-510 propane regulator, H698 pair reverse flow check valves, 13787A powder coated metal carrier and complete operation and instruction manual.



23-1010P
Propane Caddy

23-1010P Propane Caddy Includes 11-1101C torch, 8' (2.4m) covered hoses, #3-7 tips, 249-500 preset propane regulator, 30-20-540 oxygen regulator, OC20 oxygen cylinder (20 cu. ft.), 13493 caddy carrier, H698 pair check valves, and complete instruction manual. The 14.1 oz. disposable LP tank provides up to 15 hours of running time with a #5 tip. Also works with 16 oz. disposable MAPP[®] tank.

Disposable tank not included



23-1004A
Acetylene Caddy

23-1004A Acetylene Caddy Includes 11-1101C torch, #3-7 tips, 30-15-200 acetylene regulator, 30-20-540 oxygen regulator, H698 pair reverse flow check valves, 8' (2.4m) covered hoses, OC20 (20 cu. ft.) oxygen cylinder, 2329E (10 cu. ft.) acetylene cylinder, 13493 caddy carrier and instruction manual.

14014 MAGNETIC TORCH STAND & TIP ORGANIZER

Solid metal stand comes with holes drilled and numbered for #2-7 tips. Just a twist of the wrist removes the torch from the magnet. Magnetic clip mounts easily on Little Torch body (torch and tips sold separately).



**Torch
Stand**

CYLINDERS ONLY

Stock No.	Gas	Capacity	Height-Diameter
OC20	Oxygen	20 cu. ft.	17 3/4" - 5 1/4"
2329E	"MC" Acetylene	10 cu. ft.	14 1/2" - 4 1/8"
13558	Propane	5 lb.	12 1/2" - 8"

LITTLE TORCH REPLACEMENT HOSES

(Connection Tool Included)

Hose Type	Fuel	Length/ Inside Dia.	Fittings*	Stock No.
Little Torch	Any Fuel	8' - 1/8"	B	13254-3-8
Little Torch	Oxygen	8' - 1/8"	B	13254-1-8
Little Torch	Oxygen/Fuel - Twin Hose	8' - 1/8"	B	13254-4-8

* "B" fittings 9/16" - 18

Safety • Performance • Durability

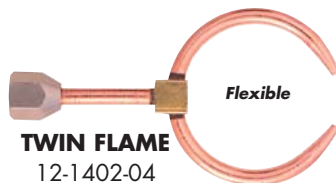
Tips & Technical Information



CURVED
12-1401-07



STRAIGHT
129-124-04



TWIN FLAME
12-1402-04

Flexible

Sapphire Tips

Due to the extraordinarily small orifice diameter of tips sizes #2-3, tips are fitted with a laser drilled synthetic sapphire to assure accurate gas flow and consistent flame characteristics.

ALL TIPS ARE 100% FLAME TESTED



Flexible Tip Extension
For Customizing Angle And Distance From Handle

Stock No.
2327-3SP
Length
3" (76mm)

Size	CURVED Stock No.	STRAIGHT Stock No.	Use With Oxygen and:	Orifice Dia.	Drill Size	Gas Pressures (PSI)		Gas Consumption (CFH)		BTU/hr	Brazing Capacity Copper Pipe
						Oxygen	Fuel	Fuel	Oxygen		
#2	12-1401-02	N/A	Acetylene, Hydrogen only	.006	97	2	2	.09	.11	130	N/A
#3	12-1401-03	N/A	Any Fuel Gas	.011	85	4	4	.78	.94	1,150	Up to 1/8"
#4	12-1401-04	129-124-04		.020	76	5	5	1.57	1.88	2,300	1/4" - 3/8"
#5	12-1401-05	N/A		.029	69	6	6	2.58	3.1	3,800	5/16" - 5/8"
#6	12-1401-06	N/A		.037	63	6	6	4.48	5.38	6,585	3/8" - 3/4"
#7	12-1401-07	N/A		.047	56	8	8	6.27	7.52	9,200	1/2" - 7/8"

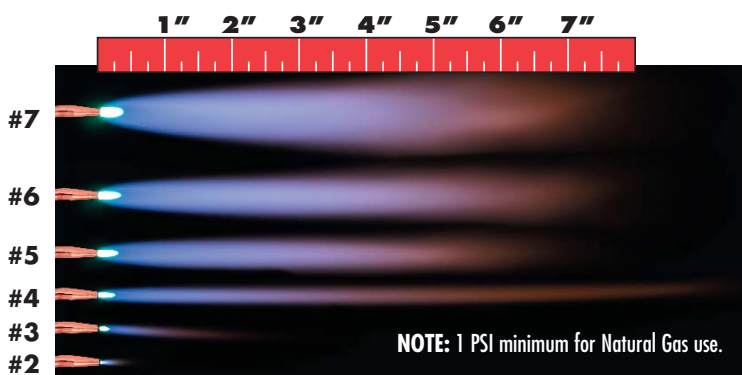
Size	TWIN FLAME Stock No.	Use With Oxygen and:	Orifice Dia.	Drill Size	Gas Pressures (PSI)		Gas Consumption (CFH)		BTU/hr	Brazing Capacity Copper Pipe
					Oxygen	Fuel	Fuel	Oxygen		
#4	12-1402-04	Any Fuel Gas	.020	76	5	5	2.91	3.49	4,300	1/4" - 5/8"
#5	12-1402-05		.029	69	6	6	4.70	5.64	6,900	5/16" - 3/4"
#6	12-1402-06		.037	63	6	6	6.50	7.80	9,550	3/8" - 7/8"

NOTE: All values determined using acetylene gas.



TWIN FLAME

APPROX. FLAME SIZES AT NEUTRAL MIXTURE (OXYGEN/ACETYLENE)



NOTE: 1 PSI minimum for Natural Gas use.



HEATING TIP (Rosebud)

Heating Tips

Stock No.	Fuel	Gas Pressures (PSI)		Length	Gas Consumption (CFH)		Rosebud Flame BTU/hr
		Oxygen	Fuel Gas		Fuel	Oxygen	
13-662	Acetylene, Hydrogen Propylene, MAPP® 8,000 BTU Output	14	10	6" (153mm)	4.58	5.51	7,050
13717	Propane 5,000 BTU Natural Gas 2,400 BTU	14 7	10 5	6" (153mm)	5.12	12.80	12,800

Tip Ends Actual Size



Acetylene

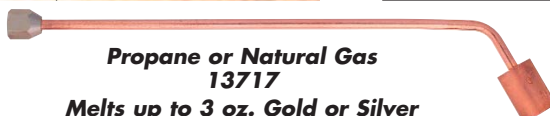


Propane



Acetylene 13-662

Melts up to 3 oz. Gold or Silver



Propane or Natural Gas 13717

Melts up to 3 oz. Gold or Silver