

# The Little Torch™ Kit

Gas  
Equipment 

## Quick Specs

### Applications

Jewelry manufacturing and repair  
Electronics manufacturing and repair  
Precision metal work  
Hobby and crafts  
Plumbing  
Plastic Polishing

### Oxy-Fuel Processes

Brazing  
Soldering  
Heating  
Welding

### Fuel Gases

Acetylene  
Propane  
Propylene  
Natural Gas  
Hydrogen

### Torch

Net weight: 0.75 lb. (0.34 kg)  
Length: 4.625 in. (118 mm)

### Curved Tip

Length: 1.5 in. (38 mm)  
Angle: 45 degrees

Top precision and control for  
your smallest oxy-fuel jobs.



Basic Little Torch  
kit 23-1001D shown.

## Designed for Precision

**Light weight at 1.5 ounces** for infinite control on small-part soldering and brazing.

**3.6 times smaller than conventional torches** to easily maneuver in tight areas.

**No. 2 and 3 tip orifices are fitted with laser-drilled synthetic sapphire** for accurate gas flow and consistent flame.

**Produces thread-thin flame** hot enough to melt weldable metals, glass and ceramics.

## Unmatched Flexibility

**Range of tip orifices** provide wide spectrum of flame length and heat output for various metals and thickness.

**Variety of settings** produces controlled flame that melts up to three ounces of gold or silver.

**Works with different tank sizes** of commercially available oxy-fuel systems from large pressurized cylinders to smaller disposable types.

**Superior flexible hoses** connect to standard pressure regulator for a variety of projects.

## Meets Strict Manufacturing Standards

**Certified by leading nationally recognized testing authorities** ensuring that you are using a safe, properly designed and manufactured product.



**Underwriters Laboratories (UL) Listed**  
for gas pressure regulators.



**Electrical Testing Laboratories (ETL) Listed**  
for oxy-fuel torches and tips.

Intertek



Warranted for one years, parts and labor.



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### MillerWelds.com





23-1001D

## Basic Little Torch Kits

Net weight for each kit is 0.75 lb. (0.34 kg).

**23-1001D** With “B” hose fittings (fuel: 9/16"-18 LH, oxygen: 9/16"-18 RH)

**23-1013A** With Australian hose fittings (fuel: 5/8"-18 LH, oxygen: 5/8"-18 RH)

**239-047B** With British hose fittings (fuel: G-3/8"-19 LH, oxygen: G-3/8"-19 RH)

**239-048A** With European hose fittings (fuel: G-3/8"-19 LH, oxygen: G-1/4"-19 RH)

Component	Description
<b>Little Torch</b>	Anodized aluminum body with separate inlet nipples
<b>Curved Tips</b>	No. 3, 4, 5, 6, 7
<b>Covered Hoses</b>	8 ft. (2.4 m) length / 1/8 in. (3.2 mm) inside diameter



23-1003B

## Little Torch with Regulators Kits

Use regulators to provide low regulated pressures and flows necessary for fine flame adjustment and stability. Net weight for each kit is 7.15 lb. (3.24 kg).

**23-1003** With fuel regulator and CGA 200 inlet connection for 10 cu. ft. “MC” cylinder

**23-1003B** With fuel regulator and CGA 520 inlet connection for 40 cu. ft. “B” cylinder

**23-1003P** With fuel regulator and CGA 510 inlet connection for larger propane/acetylene cylinder

Component	Description	
<b>Little Torch</b>	Anodized aluminum body with separate inlet nipples	
<b>Curved Tips</b>	No. 3, 4, 5, 6, 7	
<b>Check Valves</b>	1 pair (fuel and oxygen), reverse-flow, regulator-mounted	
<b>Covered Hoses</b>	8 ft. (2.4 m) length / 1/8 in. (3.2 mm) inside diameter	
<b>Regulators</b>	<b>Fuel Gas</b>	<b>Oxygen</b>
Body Material	• Forged brass	• Forged brass
Delivery Pressure	• 0–15 psig (0–1 bar)	• 0–20 psig (0–1 bar)
Max. Inlet Pressure	• 400 psig (28 bar)	• 3,000 psig (207 bar)
Outlet Connection	• 9/16"-18 LH “B”	• 9/16"-18 RH “B”
Inlet Connection	• See kit descriptions above	• CGA 540
For Cylinder Type	• See kit descriptions above	• OC20 20 cu. ft. cylinder
Gauge Size	• 2 in. (51 mm)	• 2 in. (51 mm)
Gauge Outlet	• 30 psig (2 bar)	• 30 psig (2 bar)
Gauge Inlet	• 400 psig (28 bar)	• 4,000 psig (276 bar)



23-1014

## Little Torch for Disposable Tanks Kit

Maximum portability in locations where larger pressurized cylinders are not allowed. Kit may be used with disposable propylene or propane and oxygen cylinders (cylinders not included). Net weight for kit is 1.75 lb. (0.79 kg).

*Note: Disposable oxygen and fuel tanks may be purchased at your local hardware or gas distributors.*

Component	Description	
<b>Little Torch</b>	Anodized aluminum body with separate inlet nipples	
<b>Curved Tip</b>	No. 5	
<b>Covered Hoses</b>	8 ft. (2.4 m) length / 1/8 in. (3.2 mm) inside diameter	
<b>Cylinder Holder</b>	Metal frame support, tilts the disposable cylinders for proper use	
<b>Regulators</b>	<b>Propane</b>	<b>Oxygen</b>
Body Material	• Aluminum with aluminum adjusting knob	• Brass with aluminum adjusting knob
Delivery Pressure	• 0–15 psig (0–1 bar)	• 0–15 psig (0–1 bar)
Max. Inlet Pressure	• 500 psig (34 bar)	• 500 psig (34 bar)
Inlet Connection	• CGA 600	• CGA 601
For Cylinder Type	• Disposable propylene or propane cylinder (not included)	• Disposable oxygen cylinder (not included)



**23-1015P**  
(propane)



**23-1004A**  
(acetylene)



**23-1010P**  
(propane)

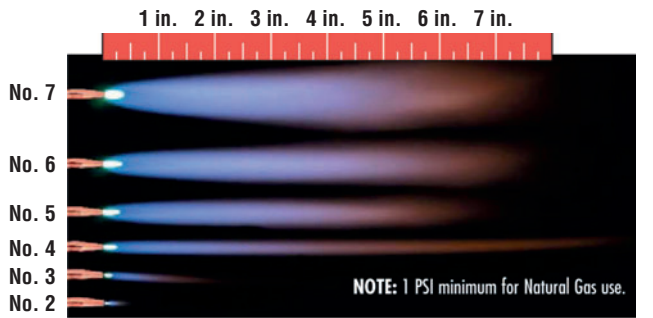
### Little Torch Caddy Kits

It is 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.

- 23-1015P** With 30-15-510 propane regulator, 13558 (5 lb.) refillable propane cylinder, OC20 20 cu. ft. oxygen cylinder and powder-coated metal carrier. Net weight for kit is 40.7 lb. (18.46 kg).
- 23-1004A** With 30-15-200 acetylene regulator, 2329E (10 cu. ft.) acetylene cylinder, OC20 20 cu. ft. oxygen cylinder and 13493 plastic caddy carrier. Net weight for kit is 36.1 lb. (16.37 kg).
- 23-1010P** With 249-500 B preset propane regulator, OC20 20 cu. ft. oxygen cylinder and plastic caddy carrier. Required 14.1 oz. disposable LP cylinder is NOT included. Net weight for kit is 26.15 lb. (11.86 kg).

Component	Description			
<b>Little Torch</b>	Anodized aluminum body with separate inlet nipples			
<b>Curved Tips</b>	No. 3, 4, 5, 6, 7			
<b>Check Valves</b>	1 pair (fuel and oxygen), reverse-flow, regulator-mounted			
<b>Covered Hoses</b>	8 ft. (2.4 m) length / 1/8 in. (3.2 mm) inside diameter			
<b>Cylinder Type</b>	See kit descriptions above			
<b>Regulators</b>	<b>Fuel Gas (23-1015P Kit)</b>	<b>Fuel Gas (23-1004A Kit)</b>	<b>Fuel Gas (23-1010P Kit)</b>	<b>Oxygen (All Kits)</b>
Body Material	• Forged brass	• Forged brass	• 360 brass	• Forged brass
Delivery Pressure	• 0–15 psig (0–1 bar)	• 0–15 psig (0–1 bar)	• 0–15 psig (0–1 bar)	• 0–20 psig (0–1 bar)
Max. Inlet Pressure	• 400 psig (28 bar)	• 400 psig (28 bar)	• 500 psig (35 bar)	• 3,000 psig (207 bar)
Outlet Connection	• 9/16"-18 LH "B"	• 9/16"-18 LH "B"	• 9/16"-18 LH "B"	• 9/16"-18 RH "B"
Inlet Connection	• CGA 510	• CGA 200	• CGA 500	• CGA 540
Gauge Size	• 2 in. (51 mm)	• 2 in. (51 mm)	• N/A	• 2 in. (51 mm)
Gauge Outlet	• 30 psig (2 bar)	• 30 psig (2 bar)	• N/A	• 30 psig (2 bar)
Gauge Inlet	• 400 psig (28 bar)	• 400 psig (28 bar)	• N/A	• 4,000 psig (276 bar)

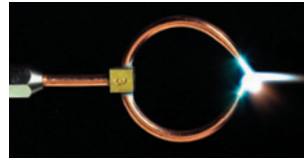
## Tips (All tips are 100 percent flame tested.)



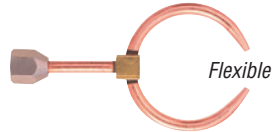
Approximate curved tip flame sizes at neutral mixture (oxygen/acetylene)



Curved Tip



Twin flame



Flexible

Twin Flame Tip



Three-inch Flexible Tip Extension 2327-3SP

For customizing angle and distance from handle.

Tip Type	Stock Number	Size	Use with Oxygen and:	Orifice Diameter	Drill Size	Gas Pressure (psi)		Gas Consumption (cfh)		Btu/Hour	Braze Capacity Copper Pipe
						Oxygen	Fuel	Fuel	Oxygen		
Curved	12-1401-02	No. 2*	Acetylene or hydrogen only	.006 in.	97	2	2	.09	.11	130	—
	12-1401-03	No. 3*	Any fuel gas	.011 in.	85	4	4	.78	.94	1,150	Up to 1/8 in.
	12-1401-04	No. 4		.020 in.	76	5	5	1.57	1.88	2,300	1/4–3/8 in.
	12-1401-05	No. 5		.029 in.	69	6	6	2.58	3.1	3,800	5/16–5/8 in.
	12-1401-06	No. 6		.037 in.	63	6	6	4.48	5.38	6,585	3/8–3/4 in.
	12-1401-07	No. 7		.047 in.	56	8	8	6.27	7.52	9,200	1/2–7/8 in.
Twin Flame	12-1402-04	No. 4	Any fuel gas	.020 in.	76	5	5	2.91	3.49	4,300	1/4–5/8 in.
	12-1402-05	No. 5		.029 in.	69	6	6	4.70	5.64	6,900	5/16–3/4 in.
	12-1402-06	No. 6		.037 in.	63	6	6	6.50	7.8	9,550	3/8–7/8 in.

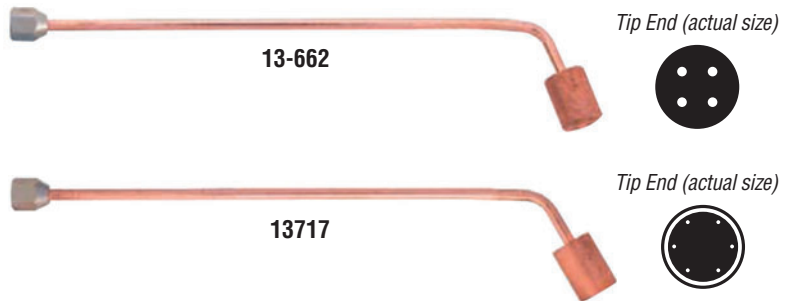
Note: All values in chart are determined using acetylene gas.

\*Due to the extremely small orifice diameter tips No. 2 and 3, they are fitted with a laser-drilled synthetic sapphire to assure accurate gas flow and consistent flame characteristics.

## Heating Tips (All tips are 100 percent flame tested.)



Heating tip (rosebud)



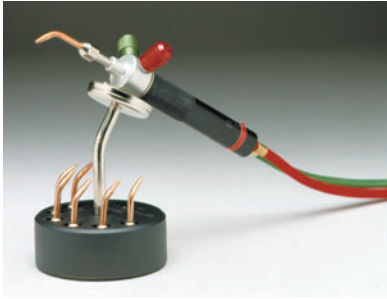
Heating tips melt up to three ounces of gold or silver.

Stock Number	Length	Fuel Gas	Gas Pressure (psi)		Gas Consumption (cfh)		Flame Average Btu/Hour
			Oxygen	Fuel Gas	Oxygen	Fuel Gas	
13-662	6 in. (153 mm)	Acetylene	15	10	6.0	5.5	7,900
		Hydrogen			5.5	11.0	3,300
		Propylene			2.3	0.5	1,100
13717	6 in. (153 mm)	Propane	15	10	5.0	2.4	5,300
		Natural gas	7	5	3.0	3.0	3,200

Note: Heating tips are not for use with disposable oxygen tanks.



## Accessories and Replacement Parts



### Magnetic Torch Stand and Tip Organizer 14014

Solid metal stand comes with holes drilled and numbered for No. 2–7 tips. Just a twist of the wrist removes the torch from the magnet. Magnetic clip mounts easily on the Little Torch body. Torch and tips sold separately.

### Replacement Parts



#### Little Torch™

**11-1101C** “B” 9/16"-18 hose fittings

**11-1107** Australian hose fittings

**11-1104C** British hose fittings

**11-1110** European hose fittings

Replacement torch with 8 ft. (2.4 m) oxygen and fuel hoses. Hoses come crimped onto torch handle with “B” regulator fittings.



#### Little Torch™ Valve Assemblies

**7345** Green, oxygen

**7346** Red, fuel

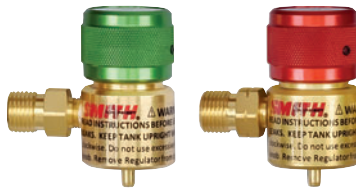
**7348** PTFE Valve Packing

Replacement valves control the flow of oxygen and fuel gas.



### Cylinder Holder 13296

Disposable cylinder holder. Metal frame support tilts the disposable cylinders for proper use.

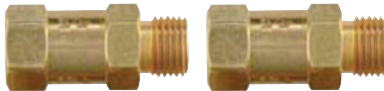


### Preset Regulators

**249-499B** Oxygen

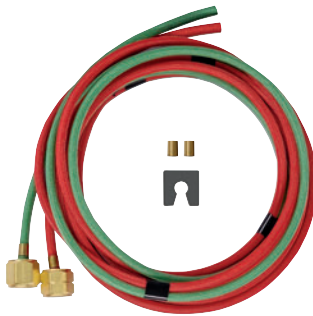
**249-500B** Propane

Disposable cylinder regulators.



### Reverse-Flow Check Valves H698

Regulator-mount check valves close automatically when outlet pressure drops below 0.5 psig.



### Covered Hoses (red/green)

**13254-4-8** “B” 9/16"-18 hose fittings

**13254-5-8** Australian hose fittings

**13254-6-8** British hose fittings

**13254-7-8** European hose fittings

8 ft. (2.4 m) length, 1/8 in. (3.2 mm) inside diameter. Each covered hose set includes two hose ferrules and one crimping tool.

### Hose Fittings



#### Hose Nuts

**16173** Oxygen “B” fitting, 9/16"-18 RH

**16174** Fuel “B” fitting, 9/16"-18 LH

For 1/8 in. (3.2 mm) inside diameter hose.



#### Hose Tailpiece 1882

Oxygen/fuel “B” fitting (barbed) for oxygen and fuel connections. For 1/8 in. (3.2 mm) inside diameter hose.



#### Hose Ferrule 7582-1

For oxygen and fuel hoses.

Secures hose to torch. 3/16 in.

(5 mm) inside diameter. 9/32 in. (7 mm) length. Use crimping tool below to crimp ferrule onto torch hose.



#### Crimping Tool 7799

Tool for crimping ferrule above to secure hose to torch.





## Ordering Information

Little Torch Kits	Stock No.	Description	Qty.	Price
<b>Basic Little Torch™ Kits</b> (Includes torch, curved tips and covered hoses)	<b>23-1001D</b> <b>23-1013A</b> <b>239-047B</b> <b>239-048A</b>	With "B" hose fittings (fuel: 9/16"-18 LH, oxygen: 9/16"-18 RH) With Australian hose fittings (fuel: 5/8"-18 LH, oxygen: 5/8"-18 RH) With British hose fittings (fuel: G-3/8"-19 LH, oxygen G-3/8"-19 RH) With European hose fittings (fuel: G-3/8"-19 LH, oxygen: G-1/4"-19 RH)		
<b>Little Torch™ with Regulators Kits</b> (Includes torch, curved tips, covered hoses, check valves and regulators)	<b>23-1003</b> <b>23-1003B</b> <b>23-1003P</b>	With CGA 200 fuel regulator inlet connection for 10 cu. ft. "MC" cylinder With CGA 520 fuel regulator inlet connection for 40 cu. ft. "B" cylinder With CGA 510 fuel regulator inlet connection for larger propane/acetylene cylinders		
<b>Little Torch™ for Disposable Tanks Kit</b> (Includes torch, curved tips, covered hoses, regulators and cylinder holder)	<b>23-1014</b>	Can be used with disposable propylene or propane and oxygen cylinders (cylinders not included)		
<b>Little Torch™ Caddy Kits</b> (Includes torch, curved tips, covered hoses, check valves, regulators and carrier)	<b>23-1004A</b> <b>23-1015P</b> <b>23-1010P</b>	With 30-15-200 acetylene regulator, acetylene cylinder and plastic caddy carrier With 30-15-510 propane regulator, propane tank and powder-coated metal carrier With B preset propane regulator and plastic caddy carrier (LP tank NOT included)		
<b>Tips</b>		See page 4		
<b>Accessories</b>				
Magnetic Torch Stand and Tip Organizer	<b>14014</b>	Torch and tips sold separately		
<b>Replacement Parts</b>				
Little Torch	<b>11-1101C</b> <b>11-1107</b> <b>11-1104C</b> <b>11-1110</b>	Includes torch and hoses. "B" 9/16"-18 hose fittings Includes torch and hoses. Australian hose fittings Includes torch and hoses. British hose fittings Includes torch and hoses. European hose fittings		
Little Torch Valve Assemblies	<b>7345</b> <b>7346</b> <b>7348</b>	Green, oxygen Red, fuel PFTE Valve Packing		
Plastic Caddy Carrier	<b>13493</b>	Replacement for 23-1004A kit		
Cylinder Holder	<b>13296</b>	Metal frame support tilts the disposable cylinders for proper use		
Preset Regulators	<b>249-499B</b> <b>249-500B</b>	Oxygen. Can be used with 23-1014 Little Torch for Disposable Tanks kit Propane. Can be used with 23-1014 Little Torch for Disposable Tanks kit		
Reverse-Flow Check Valves	<b>H698</b>	Regulator mount		
Cylinders	<b>0C20</b> <b>2329E</b> <b>13558</b>	20 cu. ft. oxygen, 17.75 in. height / 5.25 in. diameter 10 cu. ft. "MC" acetylene, 14.5 in. height / 4.125 in. diameter 5 lb. propane, 12.5 in. height / 8 in. diameter		
Covered Hoses (red/green)	<b>13254-4-8</b> <b>13254-5-8</b> <b>13254-6-8</b> <b>13254-7-8</b>	"B" 9/16"-18 hose fittings. 8 ft. (2.4 m) length, 1/8 in. (3.2 mm) inside diameter Australian hose fittings. 8 ft. (2.4 m) length, 1/8 in. (3.2 mm) inside diameter British hose fittings. 8 ft. (2.4 m) length, 1/8 in. (3.2 mm) inside diameter European hose fittings. 8 ft. (2.4 m) length, 1/8 in. (3.2 mm) inside diameter		
<b>Hose Fittings</b>				
Hose Nuts	<b>16173</b> <b>16174</b>	Oxygen "B" fitting, 9/16"-18 RH Fuel "B" fitting, 9/16"-18 LH		
Hose Tailpiece	<b>14186</b> <b>1882</b>	Oxygen/fuel "A" fitting (barbed) Oxygen/fuel "B" fitting (barbed)		
Hose Ferrule	<b>7582-1</b>	Secures hose to torch		
Crimping Tool	<b>7799</b>	Crimps ferrule to secure hose to torch		

Date:

Total Quoted Price:

Distributed by:

