Issued May 2024 • Index No. GE/28.0

# **Heating Tips**

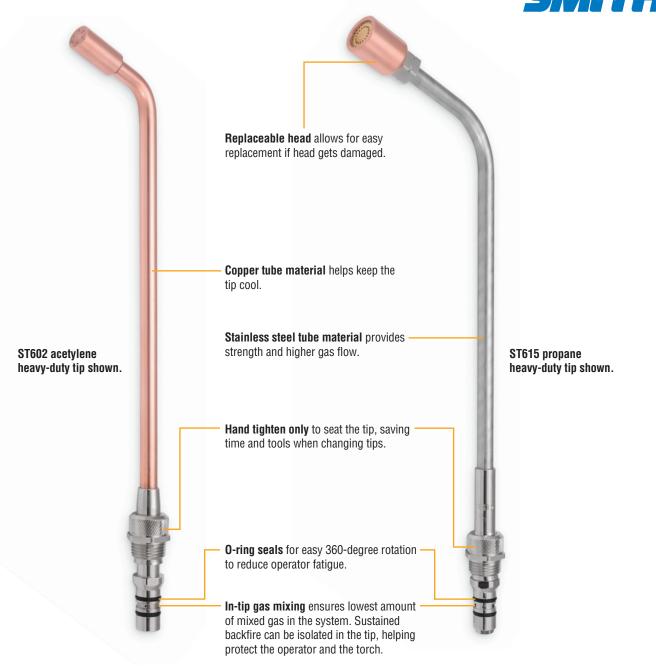


Quick Specs Typical ApplicationsShipbuildingFarm and ranchRailroadMetal fabricationSalvageConstruction and demolitionPipelineFarm and ranch

**Oxy-Fuel Processes** Heating Brazing Soldering Fuel Gases Acetylene Propane Natural gas Propylene **Tip Types** Specialty Heavy-duty Medium-duty Standard-duty Gas Mixing In the tip

EQUIPME

### Quick concentrated heat for maximum performance.



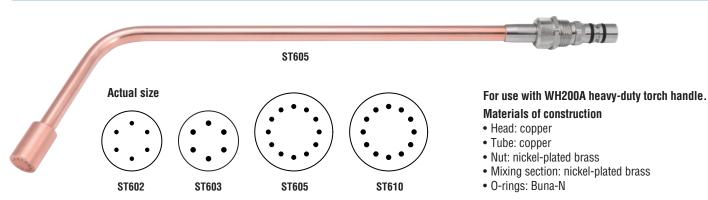


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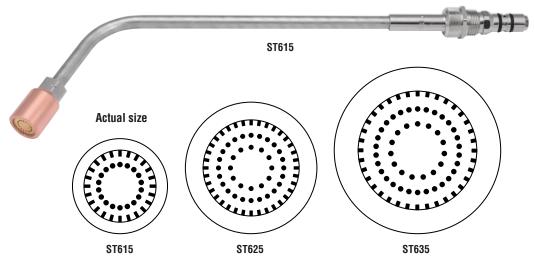


## ST600 Series Heavy-Duty Heating Tips (Acetylene)



		Average	Pressure (	osig)	Gas Consu	mption (scfh)			350 Cubic Foot Fuel
Gas Service	Stock No.	Btu/Hour	Oxygen	Acetylene	Oxygen	Acetylene	Drill Size	Overall Length	Cylinders Required
Acetylene	ST602	41,160	15	15	31	28	64	16 in. (406 mm)	1
	ST603	73,500	15	15	55	50	56	16 in. (406 mm)	1
	ST605	141,120	15	15	96	87	57	19 in. (483 mm)	2
	ST610	220,500	15	15	150	136	54	19 in. (483 mm)	3

## ST600 Series Heavy-Duty Heating Tips (Propane/Natural Gas)



# For use with WH200A heavy-duty torch handle.

#### Materials of construction

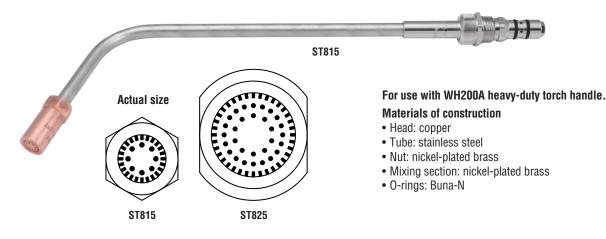
- Head shell: copper
- Head insert: brass
- Head nut: nickel-plated brass
- Tube: stainless steel
- Nut: nickel-plated brass
- · Mixing section: nickel-plated brass
- O-rings: Buna-N

		Average	Pressure (psig)		Gas Consump	tion (scfh)		Head
Gas Service	Stock No.	Btu/Hour	Oxygen	Fuel Gas	Oxygen	Fuel Gas	Overall Length	Number
Propane/	ST615	244,000	23-65	10–28 (propane)	225-535	70–160 (propane)	15.5 in. (394 mm)	1495
natural gas		155,145	18-55	10-28 (natural gas)	175-450	92–267 (natural gas)		
	ST625	455,000	50-110	17–28 (propane)	480-1,000	140–280 (propane)	31.5 in. (800 mm)	1504
		313,950	43-80	18-28 (natural gas)	390-785	200–450 (natural gas)		
	ST635*	313,950 43-80 18-28 (natural )		18–40 (propane)	670-1,580	185–480 (propane)	31.5 in. (800 mm)	1499

\*ST635 requires 3/8 inch (10 mm) I.D. hose and 40-50-510 propane cylinder regulator.



## ST800 Series Heavy-Duty Heating Tips (Propylene)



		Average	Pressure (ps	ig)	Gas Consumptio	n (scfh)		
Gas Service	Stock No.	Btu/Hour	Oxygen	Propylene	Oxygen	Propylene	Overall Length	Torch Head Number
Propylene	ST815	273,000	37–77	13-37	390-655	120-235	16 in. (406 mm)	4642
	ST825	830,000	60-110	20-35	580-1,500	225-525	16 in. (406 mm)	4639

## SC Series Heavy-Duty Special-Purpose Tips (Acetylene or Propane)

#### Actual size





#### SC83 materials of construction

- Body: tellurium copper
- Seat: graphite
- Seat collar: brass

#### SC112 materials of construction

- Insert: brass
- Sleeve: brass
- · Shell: nickel-plated tellurium copper
- Seat: graphite
- · Seat collar: brass

#### For use with the following torches:

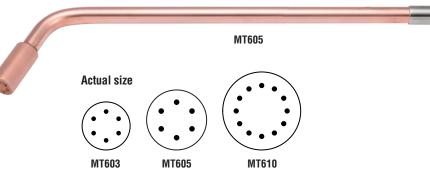
**Cutting torches:** SC220, SC225, SC229, SC229S, SC360, SC365, SC369, SC925, SC929, SC930, SC935, SC939, SC940, SC945, SC949, SC960, SC965, SC969

Machine torches: SC770, SC772A

		Average	Pressure (	psig)	Gas Consu	mption (scfh)			
Gas Service	Stock No.	Btu/Hour	Oxygen	Fuel Gas	Oxygen	Fuel Gas	Drill Size	Overall Length	Fuel Cylinders Required
Acetylene	SC83	76,440	15	10 (acetylene)	58	52 (acetylene)	56	3.5 in. (89 mm)	2 (350 cu. ft. cylinders)
Propane	SC112	312,250	60	25 (propane)	495	125 (propane)	Slots	3.5 in. (89 mm)	2 (100 lb. cylinders)



## MT600 Series Medium-Duty Heating Tips (Acetylene)



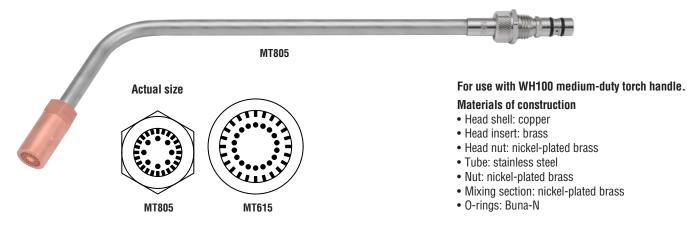
#### For use with WH100 medium-duty torch handle.

#### Materials of construction

- Head: copper
- Tube: copper
- Nut: nickel-plated brass
- Mixing section: nickel-plated brass
- O-rings: Buna-N

		Average	Pressure (p	osig)	Gas Consur	mption (scfh)			350 Cubic Foot Fuel
Gas Service	Stock No.	Btu/Hour	Oxygen	Acetylene	Oxygen	Acetylene	Drill Size	Overall Length	Cylinders Required
Acetylene	MT603	41,160	15	15	31	28	64	10 in. (254 mm)	1
	MT605	74,970	15	15	57	51	56	16 in. (406 mm)	1
	MT610	132,300	15	15	100	90	57	18 in. (457 mm)	2

## MT805 and MT615 Medium-Duty Heating Tips (Propane/Natural Gas/Propylene)



		Average	Pressure (	psig)	Gas Consump	tion (scfh)		Head
Gas Service	Stock No.	Btu/Hour	Oxygen	Fuel Gas	Oxygen	Fuel Gas	Overall Length	Number
Propane/	MT805	208,000	50-60	20–25 (propane)	206-230	80–100 (propane)	14 in. (356 mm)	4642
natural gas	MT615	269,000	20-60	10–25 (propane)	225-535	70–160 (propane)	14 in. (356 mm)	1495
		182,000	15-50	10–25 (natural gas)	175-450	96–267 (natural gas)	]	
Propylene	MT805	280,000	50-60	20–25 (propylene)	242-270	120–135 (propylene)	14 in. (356 mm)	4642
	MT615	280,000	20-60	10–25 (propylene)	235-430	100-160 (propylene)	14 in. (356 mm)	1495



## AT605 Standard-Duty Heating Tip (Acetylene)



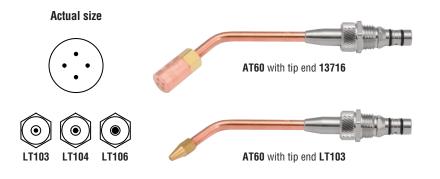
#### For use with AW1A standard-duty torch handle.

#### Materials of construction

- Head: copper
- Tube: copper
- Nut: nickel-plated brass
- Mixing section: nickel-plated brass
- O-rings: Buna-N

		Average	Pressure (p	isig)	Gas Consur	nption (scfh)			200 Cubic Foot Fuel
Gas Service	Stock No.	Btu/Hour	Oxygen	Acetylene	Oxygen	Acetylene	Drill Size	Overall Length	Cylinders Required
Acetylene	AT605	42,630	15	15	32	29	64	10 in. (254 mm)	1

## AT60 Standard-Duty Heating Tip (Acetylene)



#### For use with AW1A standard-duty torch handle.

- AT60 materials of construction
- Tube: copper
- Nut: nickel-plated brass
- Mixing section: nickel-plated brass
- O-rings: Buna-N

#### 13716 materials of construction

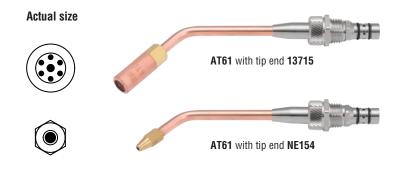
- Outer sheel: copper
- Insert: brass

#### LT100 series materials of construction

Brass

			Average	ge Pressure (psig)		Gas Consu	mption (scfh)	Overall Length
Gas Service	Stock No.	Tip End	Btu/Hour	Oxygen	Acetylene	Oxygen	Acetylene	(not including tip end)
Acetylene	AT60	13716	24,990	17	17	17	17	5.6 in. (142 mm)
		LT103	6,320	10	10	4.3	4.3	
		LT104	13,230	10	10	9	9	
		LT106	24,990	10	10	17	17	

## AT61 Standard-Duty Heating Tip (Propane/Natural Gas)



#### For use with AW1A standard-duty torch handle.

#### AT61 materials of construction

- Tube: copper
- Nut: nickel-plated brass
- · Mixing section: nickel-plated brass
- O-rings: Buna-N
- 13715 materials of construction
- Outer sheel: copper
- Insert: brass
- NE154 materials of construction
- Brass

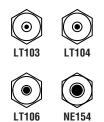
			Average	Pressure (	psig)	Gas Consi	mption (scfh)	Overall Length
Gas Service	Stock No.	Tip End	Btu/Hour	Oxygen	Propane/Natural Gas	Oxygen	Propane/Natural Gas	(not including tip end)
Propane/natural gas	AT61	13715	29,980	38	12	38	12	5.6 in. (142 mm)
		NE154	27,480	10	10	38	11	



## AT600 and AT600X6 Standard-Duty Heating Tips (Acetylene/Propane/Natural Gas)



#### Actual size



	AT600 and A	T600X6 Heating Tips	
Gas Service	Stock No.	Overall Length with Tip Ends	Tip Ends
Acetylene	AT600	13.8 in. (351 mm)	LT103, LT104,
	AT600X6	9.8 in. (249 mm)	LT106
Propane/	AT600	13.8 in. (351 mm)	NE154
natural gas	AT600X6	9.8 in. (249 mm)	

Note: Use LT100 series tip ends for acetylene (LT103 tip ends are included with AT600 and AT600X6) and NE154 tip ends for propane/natural gas (see chart below).

#### For use with AW1A standard-duty torch handle. AT600 and AT600X6 materials of construction

• Tip nut: nickel-plated brass

- Tube: nickel-plated copper
- Tube: Ticket-plated copper
   Mixing costions picket plate
- Mixing section: nickel-plated brass
- O-rings: Buna-N

LT100 series and NE154 materials of construction
• Brass

		Btu per	Pressure (	Pressure (psig)		umption (scfh)	Brazing Capacity	
Gas Service	Stock No.	Hour	Oxygen	Fuel Gas	Oxygen	Fuel Gas	Copper Pipe Diameter	Drill Size
Acetylene	LT103	12,600	10	10 (acetylene)	8.6	8.6 (acetylene)	1/2-3/4 in. (12-19 mm)	63
	LT104	26,400	10	10 (acetylene)	18	18 (acetylene)	5/8-1 in. (16-25 mm)	56
	LT106	50,000	10	10 (acetylene)	34	34 (acetylene)	3/4-1-1/2 in. (19-38 mm)	52
Propane/ natural gas	NE154	55,000	10	10 (propane/ natural gas)	76	22 (propane/ natural gas)	7/8–1-5/8 in. (22–41 mm)	36



## Notes



# **Ordering Information**

Heating Tips	Stock No.	Description	Qty.	Price
Heavy-Duty Heating Tips				
ST600 Series Heating Tips	ST602	For acetylene, see page 2		
(for use with WH200A torch handle)	ST603	For acetylene, see page 2		
	ST605	For acetylene, see page 2		
	ST610	For acetylene, see page 2		
	ST615	For propane/natural gas, see page 2		
	ST625	For propane/natural gas, see page 2		
	ST635	For propane, see page 2		
ST800 Series Heating Tips	ST815	For propylene, see page 3		
(for use with WH200A torch handle)	ST825	For propylene, see page 3		
SC Series Special-Purpose Tips	SC83	For acetylene, see page 3		
(for use with cutting or machine torches)	SC112	For propane, see page 3		
Medium-Duty Heating Tips				
MT600 Series Heating Tips	MT603	For acetylene, see page 4		
(for use with WH100 torch handle)	MT605	For acetylene, see page 4		
	MT610	For acetylene, see page 4		
	MT615	For propane/natural gas/propylene, see page 4		
MT805 Heating Tip	MT805	For propane/natural gas/propylene, see page 4		
(for use with WH100 torch handle)				
Standard-Duty Heating Tips				
AT Series Heating Tips	AT605	For acetylene, see page 5		
(for use with AW1A torch handle)	AT60	For acetylene, see page 5		
	AT61	For propane/natural gas, see page 5		
	AT600	For acetylene/propane/natural gas, see page 6		
	AT600X6	For acetylene/propane/natural gas, see page 6		
Replacement Parts				
Tip Ends	LT103	For acetylene, see page 6		
	LT104	For acetylene, see page 6		
	LT106	For acetylene, see page 6		
	NE154	For propane/natural gas, see page 6		

Date:

**Total Quoted Price:** 

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