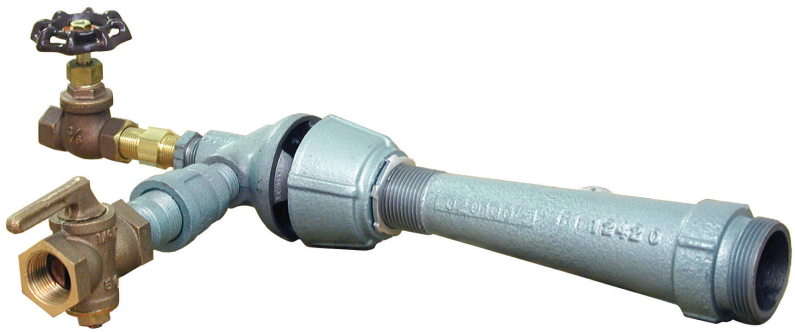
Capacity Range:
40,000 - 3,000,000 BTU/hr



High Blast Torches

High Blast Torches use a small amount of high-pressure air to entrain incoming gas at the mixer. This produces a hard, sharp, clear blue, typical blast burner flame. Only ten percent of the total air required is at 20 to 100 psi. This air is passed through a high-pressure venturi which inspirates the gas flow and elevates its pressure. The resultant mixture of one part air and one part gas is delivered to the main orifice at approximately 40% of the inlet air pressure.

The venturi efficiently entrains large quantities of combustion air and delivers the mixture to the burner nozzle. The high-pressure air valve and primary air shutter provide for wide ranges of adjustment. The design of the high-pressure injector stage prevents air feedback into the gas line. Capacities listed on the data sheet are for 90% primary air and may be increased where adequate secondary air is available.

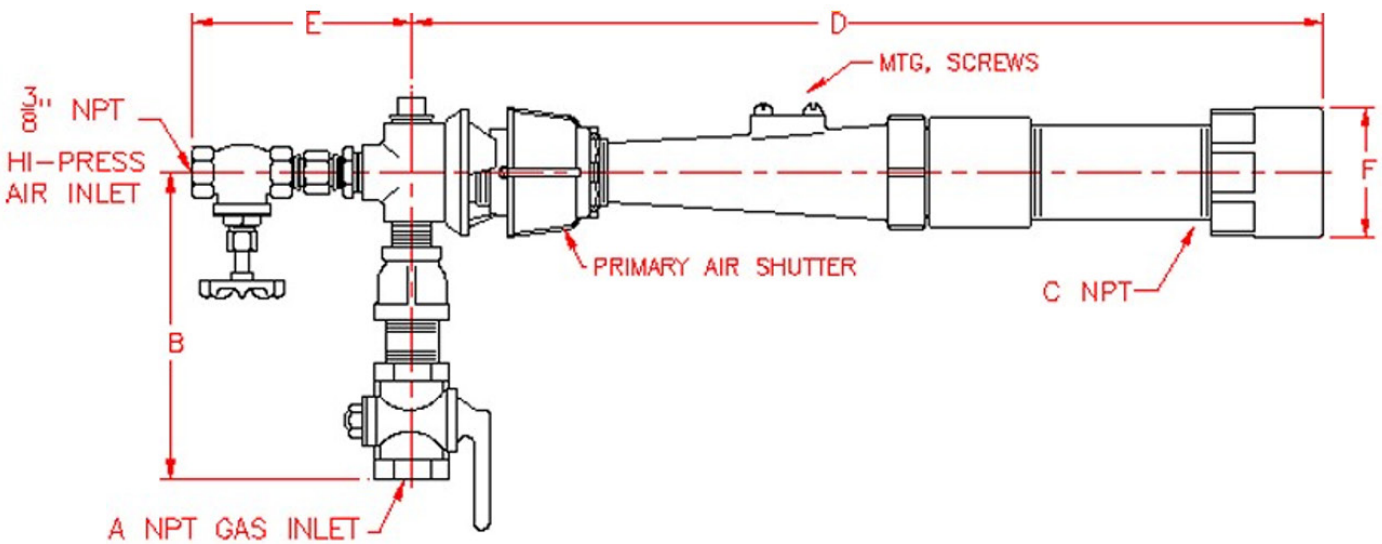
Features

Available in 7 sizes
Blast torch flames
High heat capacities – 40,000 to 3,000,000 BTU/hr
Portable
Air blower not required
Available with cast iron standard or optional alloy steel nozzles
Rugged, heavy-duty construction
Air and gas orifices easily removed for cleaning and inspection

Applications

- Cupola Lighting
- Direct flame mold drying
- Ladle heating
- Crucible preheating
- Pouring spout heating
- Die heating
- Soldering, brazing
- Welding preheating
- Flame heat treating and flame annealing
- Nonferrous metal melting
- Other spot heating applications

Dimensions



Gas Capacity and Air CFM Multiplier Table

Torch Model Number	Nat. Gas Capacity in CFH	CFMAIR 40 PSI	Dimensions					
			A NPT	B	C NPT	D ± 1/4	E	F DIA
6 HBT	55	1.2	½″	5-3/8″	¾″	11-1/2″	4-1/8″	1-9/16″
8 HBT	90	2.4	½″	5-3/8″	1″	15-1/2″	4-1/8″	1-7/8″
10 HBT	205	5.5	¾″	6-1/8″	1-1/4″	18-3/8″	4-3/8″	2-3/8″
12 HBT	320	7.3	¾″	6-1/8″	1-1/2″	18-3/8″	4-3/8″	2-5/8″
16 HBT	565	10.0	1″	7-1/4″	2″	22-3/4″	4-7/8″	3-1/4″
20 HBT	770	13.8	1″	7-1/4″	2-1/2″	26-1/2″	4-7/8″	3-7/8″
24 HBT	960	17.3	1-1/4″	8-5/8″	3″	33-3/4″	5-1/8″	4-1/2″

Air Pressure	20	25	30	35	40	45	50	55	60	65	70	80	90	100
Factor	0.71	0.79	0.87	0.94	1.00	1.06	1.12	1.18	1.23	1.28	1.32	1.42	1.50	1.58

NOTE: Multiply gas and air capacities by factor for air pressure.

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SCAN FOR MORE INFORMATION