

# BLAST TIPS STEEL OR ALLOY

MODEL: BT,BTA,BTS

Revision: 0

BULLETIN  
3110, 3115

## DESCRIPTION

Blast Tips are accurately machined and assembled to close specifications. The design has been proven by long use and extensive testing. Series BT Tips made of cold rolled steel are suggested for most applications. Where the tips may be subjected to a great deal of radiant heat or considerable back pressure, the Series BTA made of heat resisting alloy are recommended.

Both series are identical in design and are tested to operate satisfactorily at high mixture pressures where most other tips become unstable. These are easy to install and will operate over a wide range of mixture quality. If used with rich mixtures, ample secondary air must be supplied to complete combustion.

These tips, arranged on suitable pipe manifolds, or heads, may be used for roll heating, flame hardening, annealing, preheating, soldering, or other localized heating. Also for firing tin pots, varnish kettles, tanks, ovens, furnaces and numerous other types of equipment.



**2BTS  
BLAST TIP**

## NOMINAL CAPACITY - ALL SERIES TYPES

| Catalog Number Series    | Inlet Pipe Size | 1000 Btu/Hour at Various Mixture Pressures - Inches W. C. |      |      |      |      |      |      |      |
|--------------------------|-----------------|---|------|------|------|------|------|------|------|
|                          |                 | 3   | 6    | 9    | 12   | 18   | 24   | 30   | 36   |
| 1 BT, BTA, BTS, & 301 BT | 1/8"            | 5.5   | 7.7  | 9.5  | 11.0 | 13.5 | 15.4 | 17.4 | 19.0 |
| 2 BT, BTA, BTS, & 402 BT | 1/4"            | 10.6  | 15.0 | 18.4 | 21.2 | 26.0 | 30.0 | 34.0 | 37.0 |
| 3 BT, BTA, & BTS         | 3/8"            | 14.0  | 20.0 | 23.0 | 28.0 | 34.0 | 40.0 | 44.0 | 48.0 |
| 4 BT, BTA, & BTS         | 1/2"            | 20.0  | 29.0 | 35.0 | 40.0 | 50.0 | 58.0 | 64.0 | 70.0 |
| 00 BT - 46 & HOBT - 42   | 1/4-28 NF       | 2.8   | 4.0  | 4.9  | 5.6  | 6.5  | 8.0  | 9.0  | 9.8  |
| 00 BT - 55 & HOBT - 56   | 1/4-28 NF       | 2.1   | 2.9  | 3.6  | 4.2  | 4.8  | 5.9  | 6.7  | 7.3  |

CAUTION: Operation of combustion equipment can be hazardous resulting in bodily injury or equipment damage. Each burner should be supervised by a combustion safeguard and only qualified personnel should install, make system adjustments and perform any required service.



**pyronics inc.**

COMBUSTION FOR INDUSTRY

17700 MILES AVE.  
CLEVELAND, OHIO 44128  
www.pyronics.com

PHONE: (216) 662-8800  
FAX: (216) 663-8954  
marketing@pyronics.com

NOTICE: Pyronics practices a policy of continuous improvement in the design of its products. It reserves the right to change the specifications at any time without prior notice.

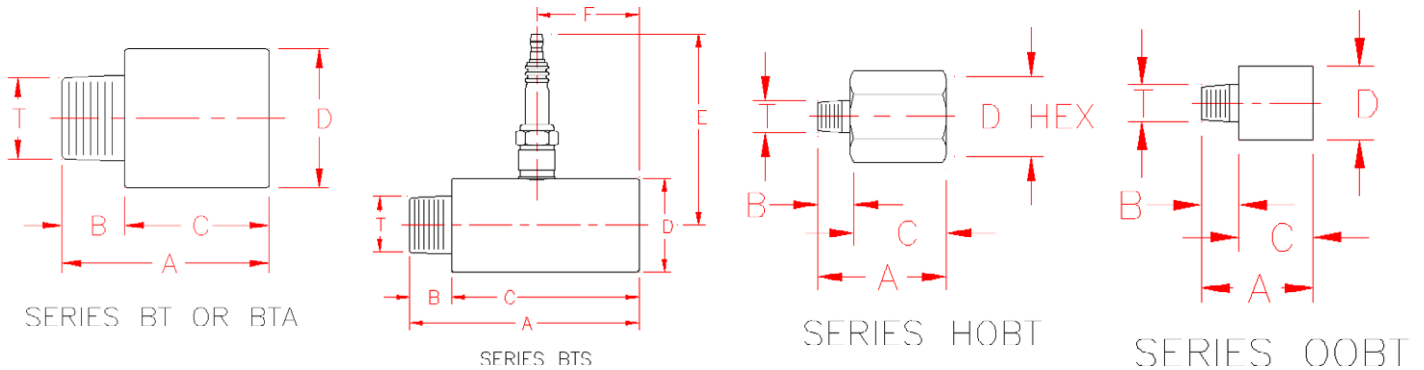
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## SPARK IGNITED TIPS

To meet the need for spark ignition two series of tips equipped with spark plugs have been developed. 10 mm Spark plugs are standard, 14 MM as requested.

### DIMENSIONS



| Catalog Number | Pipe Size T   | Burner*<br>Area Sq.<br>Inches | A        | B      | C        | D        | E        | F      | Wt. Oz. |
|----------------|---------------|-------------------------------|----------|--------|----------|----------|----------|--------|---------|
| 1 BT OR 1 BTA  | 1/8"          | 0.0264                        | 1-7/16"  | 7/16"  | 1"       | 13/16"   | -        | -      | 2.5     |
| 2 BT OR 2 BTA  | 1/4"          | 0.0510                        | 1-11/16" | 1/2"   | 1-3/16"  | 1"       | -        | -      | 4       |
| 3 BT OR 3 BTA  | 3/8"          | 0.0671                        | 1-29/32" | 17/32" | 1-3/8"   | 1-1/4"   | -        | -      | 6       |
| 4 BT OR 4 BTA  | 1/2"          | 0.0971                        | 2-1/16"  | 5/8"   | 1-7/16"  | 1-3/8"   | -        | -      | 9       |
| 1 BTS          | 1/8"          | 0.0264                        | 2-3/8"   | 7/16"  | 1-15/16" | 13/16"   | 2-13/32" | 1-1/8" | 4       |
| 2 BTS          | 1/4"          | 0.0510                        | 2-3/4"   | 1/2"   | 2-1/4"   | 1"       | 2-1/2"   | 1-1/4" | 5.7     |
| 3 BTS          | 3/8"          | 0.0671                        | 2-3/32"  | 17/32" | 2-9/16"  | 1-1/4"   | 2-5/8"   | 1-3/8" | 8       |
| 4 BTS          | 1/2"          | 0.0971                        | 3-3/8"   | 5/8"   | 2-3/4"   | 1-3/8"   | 2-11/16" | 1-1/2" | 11.5    |
| 00 BT - 46     | 1/4" -28 N.F. | 0.0116                        | 3/4"     | 1/4"   | 1/2"     | 1/2"     | -        | -      | .3      |
| **301 BT       | 3/8"          | 0.0264                        | 1-3/4"   | -      | -        | 7/8" Hex | -        | -      | 2.5     |
| **402 BT       | 1/2"          | 0.0510                        | 1-13/16" | -      | -        | 1" Hex   | -        | -      | 3.5     |
| HOBT-42        | 1/4" -28 N.F. | 0.0085                        | 1"       | 1/4"   | 3/4"     | 5/8"     | -        | -      | 0.7     |
| HOBT-56        | 1/4" -28 N.F. | 0.0033                        | 1"       | 1/4"   | 3/4"     | 5/8"     | -        | -      | 0.7     |

\*Coefficient of discharge approximately 80% \*\* Hex bodies with female threads  
Note: Spark plugs set with .045" Gap for 5,000 Volt ignition transformers.

## ORDERING INFORMATION

Orders should show the following:

1. Quantity each item required.
2. Catalog number for each item.
3. Kind of gas and pressure available.