

## 94307 Horizontal End Of Line Flame Arrester

The Shand & Jurs 94307 Horizontal Flame Arrester is designed to provide a positive flame stop in gas piping systems. The 94307 not only provides exceptional protection against propagation of flame from external source, but also offers maximum flow capacity. It is specifically designed to prevent liquid accumulation in the tube bank assembly.

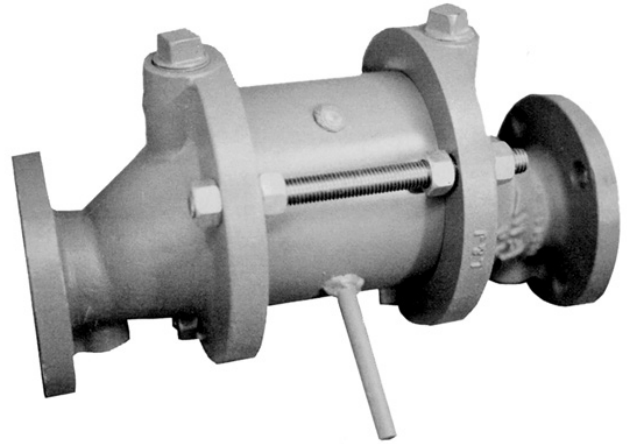
The tube bank design, consisting of a spiral wound crimped ribbon around a solid core, maximizes flow capacity with minimum pressure drop.

Standard construction includes cast aluminum, cast steel and 316 stainless steel body materials suitable for most environments. The tube bank is available in aluminum, and 316 stainless steel. The 94307 is gasketed for maximum of 10 psi static pressure standard.

Periodic inspection, maintenance and replacement of tube bank is as simple as removing tie-bolts and expanding the remaining jack screws. Once the body sections are expanded, the tube bank and shell are easily removed with the aid of a handle.

Available with flat face flanges for aluminum only or flat face raised or face flanges for cast steel, and stainless steel to match ANSI, EN1092-1 connections.

For in-line deflagration arrester, see the Shand & Jurs 94407.



### Features

- Unitized tube bank design
- Maximum protection and efficiency with minimum pressure drop
- Wide range of standard construction materials
- Easy inspection and maintenance, due to simple removal of tube bank
- Complete range of sizes from 2" through 12"
- NEC Group D gas applications
- Location within 10 pipe diameters of potential atmospheric ignition source

# 94307

## Horizontal Flame Arrester



### Specifications

#### Sizes:

2", 3", 4", 6", 8", 10" and 12"

#### Max. Static Pressure:

24.7 PSIA (10 PSIG)

#### Max. Pressure Operating:

15.7 PSIA (1.0 PSIG)

#### Flange Rating:

To match drilling of ANSI 150 lb. flat face or 150 lb. raised face (cast aluminum body option available with flat face only). EN1092-1 PN16 FF/RF.

#### Gas Application:

NEC Group D Gas

### Materials of Construction

#### Body:

Cast Steel, Cast Aluminum, or 316 Stainless Steel

#### Hardware:

316 Stainless Steel

#### Tube Bank:

Aluminum or 316 Stainless Steel

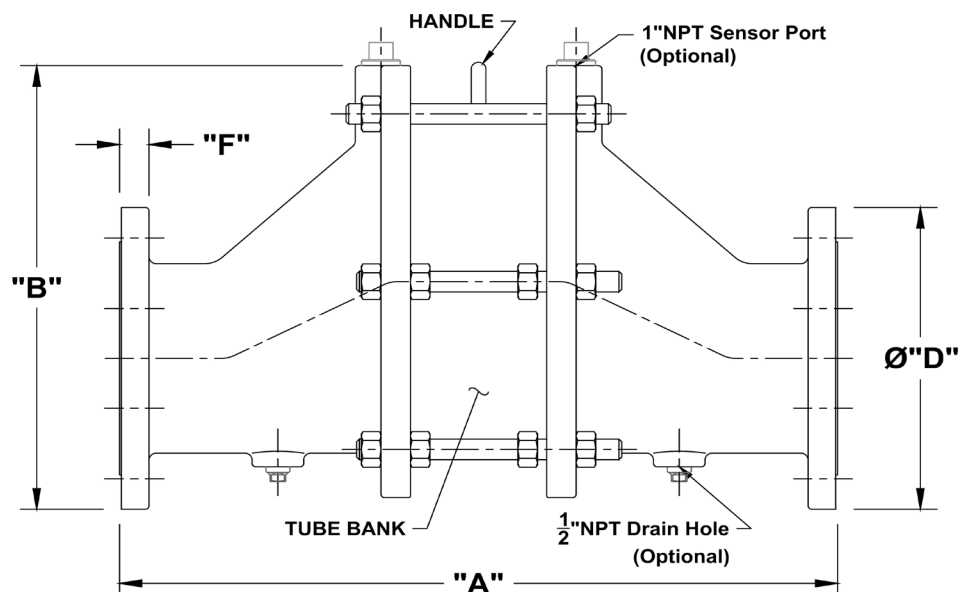
#### Gaskets:

Synthetic Composition

### Outline Dimensions

Dimensions in Inches				
Vent Size	"A"	"B"	Diameter "D"	"F"
2"	14 ½	8 ⅝	6	⅝
3"	16	10 ⅛	7 ½	¾
4"	20	12 ⅜	9	15/16
6"	24 ⅜	16 1/64	11	1
8"	32 ⅛	20 7/8	13 ½	1 ⅛
10"	33 ⅜	24 ¾	16	1 ⅜
12"	34 ⅜	29 ⅝	19	1 ¼

Installation Note: Locate flame arrester within 10 pipe diameters of potential atmospheric ignition source.



All designs subject to change. Certified dimensions and specifications available upon request.



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## 94307 Ordering Guide

### Model Number Selection

The model number will consist of a base number **94307** followed by 6 digit numbers. These digits will represent 2 option tables.

**94307 - AB - CD - EF**

### Ordering Information

Specify:

1. Model 94307 Horizontal Flame Arrester
2. Size and Body Material

3. Tube Bank and Shell Material

4. Type of Flange Option

5. Special Materials or Coatings, If Required

**Table AB - Size and Body**

Option AB	Size	Body Material
12	2"	Cast Aluminum
14	3"	Cast Aluminum
15	4"	Cast Aluminum
16	6"	Cast Aluminum
17	8"	Cast Aluminum
18	10"	Cast Aluminum
19	12"	Cast Aluminum
52	2	Cast Steel
42	2	Cast 316 Stainless Steel
54	3	Cast Steel
44	3	Cast 316 Stainless Steel
55	4	Cast Steel
45	4	Cast 316 Stainless Steel
56	6	Cast Steel
46	6	Cast 316 Stainless Steel
57	8	Cast Steel
47	8	Cast 316 Stainless Steel
58	10	Cast Steel
48	10	Cast 316 Stainless Steel
59	12	Cast Steel
49	12	Cast 316 Stainless Steel

**Table CD - Tube Bank and Shell**

Option CD	Tube Bank Material	Shell Material
12	Aluminum	Aluminum
23	316 Stainless Steel	316 Stainless Steel
12	Aluminum	Aluminum
23	316 Stainless Steel	316 Stainless Steel
12	Aluminum	Aluminum
23	316 Stainless Steel	316 Stainless Steel
12	Aluminum	Aluminum
23	316 Stainless Steel	316 Stainless Steel
12	Aluminum	Aluminum
23	316 Stainless Steel	316 Stainless Steel
12	Aluminum	Aluminum
23	316 Stainless Steel	316 Stainless Steel
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23	316 Stainless Steel	316 Stainless Steel
22	316 Stainless Steel	316 Stainless Steel
23	316 Stainless Steel	316 Stainless Steel
22	316 Stainless Steel	316 Stainless Steel
23	316 Stainless Steel	316 Stainless Steel

HARDWARE: 18-8 SS Standard; Use CD (XX) option for 316 SS; 316 SS Standard for 316 SS Body

**Table EF - Flange Type and Drain Plugs**

Flange Style	With Drain Plugs Option EF
ANSI 150lb. FF	71
ANSI 150lb. RF	81
EN1092-1 PN16 FF	21
EN1092-1 PN16 RF	31

Note: 1. Raised faced flanges with smooth finish are standard.  
For optional serrated raised faced flanges, consult factory.  
2. Raised Face Flanges not available with Aluminum bodies.

### Tube Banks Only

Parts Number	Size (Inches)	Tube Bank Material	Shell Material	Shipping Weight (lbs.)
9430-10150	2	Aluminum	Aluminum	9
9430-11110	2	316 Stainless Steel	316 Stainless Steel	25
9430-10151	3	Aluminum	Aluminum	14
9430-11111	3	316 Stainless Steel	316 Stainless Steel	35
9430-10152	4	Aluminum	Aluminum	20
9430-11112	4	316 Stainless Steel	316 Stainless Steel	60
9430-10153	6	Aluminum	Aluminum	35
9430-11113	6	316 Stainless Steel	316 Stainless Steel	100
9430-10154	8	Aluminum	Aluminum	55
9430-11114	8	316 Stainless Steel	316 Stainless Steel	160
9430-10155	10	Aluminum	Aluminum	85
9430-11115	10	316 Stainless Steel	316 Stainless Steel	240
9430-10156	12	Aluminum	Aluminum	120
9430-11116	12	316 Stainless Steel	316 Stainless Steel	320

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