

94312 Detonation Flame Arresters

The Shand & Jurs Detonation Flame Arresters provide protection against flame propagation through piping runs and vapor recovery systems, while allowing maximum flow efficiencies. This design quenches a flame front approaching from either direction, even if it has transitioned to a detonation. The Arresters contain a detonation while retaining the integrity of both the arresting element and the housing. This is ensured by the design of the passages in the tube bank and the detonation resistant construction.

Standard construction of the housing is available in Carbon Steel or 316 Stainless Steel. The tube bank is Stainless Steel throughout. Special construction materials to withstand the corrosive actions of some vapors and atmospheric conditions are available upon request.

These models are available in a range of sizes from 2" through 12". Additional sizes available upon request. Standard connections are ANSI 150lb. or 300lb. Class raised face flanges.



Features

- Withstands instantaneous pressure at the Flame front in excess of 500 psig
- Tube bank design ensures consistent functioning
- Carbon steel or 316SS housing construction, 316SS tube bank
- Optional fittings for pressure taps or temperature probes
- Standard drain plug
- Pressure and temperature taps optional

Specifications

Sizes:

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

Service/Approval:

NEC Group 'D' Vapor - Marine/Offshore (USCG)

Max. Operating Pressure:

2"-12" 18 PSIA (3.3 PSIG)

Flange Rating:

ANSI 150# RF or 300#RF

Materials of Construction

Carbon Steel, 316 Stainless Steel

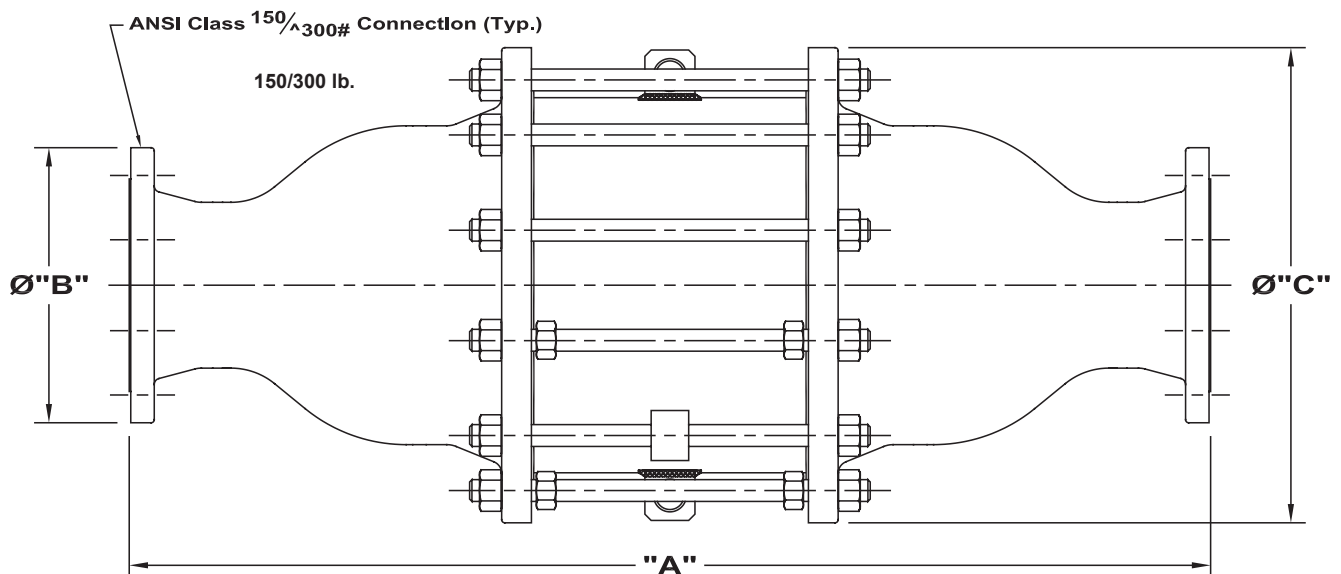
Class 300 lb.

| Size | 2" | 3" | 4" | 6" | 8" | 10" | 12" |
|------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| "A" | 30 ⁵ / ₁₆ | 35 ¹ / ₁₆ | 37 ⁵ / ₁₆ | 45 ¹ / ₁₆ | 60 ⁵ / ₁₆ | 74 ⁵ / ₁₆ | 76 ¹ / ₁₆ |
| "B" | 6 ¹ / ₂ | 8 ¹ / ₄ | 10 | 12 ¹ / ₂ | 15 | 17 ¹ / ₂ | 20 ¹ / ₂ |
| "C" | 10 | 12 ¹ / ₂ | 15 | 20 ¹ / ₂ | 25 ¹ / ₂ | 30 ¹ / ₂ | 36 |

Class 150 lb.

| Size | 2" | 3" | 4" | 6" | 8" | 10" | 12" |
|------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|
| "A" | 29 ¹ / ₁₆ | 33 ⁵ / ₁₆ | 36 ¹ / ₁₆ | 43 ¹ / ₁₆ | 58 ¹ / ₁₆ | 71 ¹⁵ / ₁₆ | 73 ⁵ / ₁₆ |
| "B" | 6 | 7 ¹ / ₂ | 9 | 11 | 13 ¹ / ₂ | 16 | 19 |
| "C" | 9 | 11 | 13 ¹ / ₂ | 19 | 23 ¹ / ₂ | 27 ¹ / ₂ | 32 |

Dimensions



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

94312 Ordering Guide

Model Number Selection

The model number will consist of a base number **94312** followed by 8 digit numbers. These digits will represent 8 option tables.

94312 - AB - CD - EF - GH

Ordering Information

Specify:

1. Model 94312 Detonation Flame Arrester
2. Size, Body Material, and Service
3. Optional Body Taps (for pressure or temperature sensing or additional drains)
4. Optional Materials of Construction as Required



Table AB - Inlet & Outlet Size

| Table AB | Size |
|----------|------|
| 02 | 2" |
| 03 | 3" |
| 04 | 4" |
| 06 | 6" |
| 08 | 8" |
| 10 | 10" |
| 12 | 12" |

Table CD

| Option CD | Body & Shell | Hardware |
|-----------|---------------------|---------------------|
| 01 | Painted* Steel | 316 Stainless Steel |
| 02 | 316 Stainless Steel | 316 Stainless Steel |

* Salt Resistance Primer and Epoxy Finish per RA800-338

Table EF - Flange Size

| Option EF | Description |
|-----------|------------------------|
| 01 | ANSI 150 lb. Flange RF |
| 02 | ANSI 300 lb. Flange RF |

Table G - Body Taps

| Option G | Description |
|----------|-------------|
| 0 | None |
| 1 | NPT |
| 2 | Socket Weld |
| 3 | Flanged |

Table H - Number of Taps (on each side)

| Option G | Description |
|----------|-------------|
| 1 | 1 |
| 2 | 2 |

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