94406 Vertical Inline Deflagration Flame Arrester

The Shand & Jurs 94406 Vertical Inline Deflagration Flame Arresters are designed to provide a positive flame stop on low pressure tanks or piping systems containing flammable liquids or solvents having a low flash point. The 94406 not only provides exceptional protection against fire from external ignition, but also offers maximum flow capacity.

Shand & Jurs Vertical Inline Deflagration Flame Arresters are generally installed with pressure-vacuum vents, or in-line low pressure piping systems. The tube bank design consisting of a spiral-wound crimped ribbon around a solid core, maximizes flow capacity with minimum pressure drop. The standard flame arrester is Factory Mutual (FM) approved to meet the ATEX application requirements per EN 12874 and ISO 16852.

Periodic inspection, maintenance and replacement of the tube bank is easily accomplished by simply removing tie-bolts and minimally expanding the remaining jack screws. Once the upper and lower body sections are expanded, the tube bank is easily removed with the aid of a handle.

Standard body construction includes light weight cast aluminum, cast iron, ductile iron, cast steel, 304 stainless steel and 316 stainless steel body materials suitable for most environments. Tube bank is available in 304 stainless steel or 316 stainless steel as standard. A complete range of sizes from 2'' [50 mm] through 12'' [300 mm] are available with flat face or raised face flanges to match ANSI, EN1092 or JIS connections.

For highly corrosive applications, body and tube bank construction of Duplex Stainless Steel, Hastelloy C, or Alloy 20 are available.

Temperature monitor device to be installed on unprotected side of Tube Bank.

Temperature monitor device available. Consult Factory.

Features

- ISO 16852 Approved
- ATEX EN 12874 Approved
- 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 flange sizes from 2'' (50 mm) to 12'' (300 mm) ANSI, EN1092, JIS. Consult factory for larger sizes

94406
Vertical Inline Deflagration Flame Arrester

Specifications

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

Max. Static Pressure:
3.45 BARG (50 PSIG)

Max. Operating Pressure:
Sizes 2''-6'' 1.1 BARA (16.20 PSIA)
8"-12" 1.09 BARA (15.95 PSIA)

Max. Operating Temperature:
60°C (140°F)

Flange Rating:
To match drilling of ANSI 125/150 lb. flat face, raised face, EN1092 PN10/16, and JIS 10K options.

Approval:
ATEX 94/4/EC and EN 12874, ISO 16852 (Short Term Burn)
NOTE: Aluminum and Cast Iron bodies are only approved for ISO 16852.

Gas Application:
IIA (NEC Group D)

Materials of Construction

Body:
Carbon Steel, 304 Stainless Steel, 316 Stainless Steel, Aluminum, Cast Iron, Ductile Iron, Duplex Stainless Steel, Hastelloy C or Alloy 20

Tube Bank:
Carbon Steel, 304 Stainless Steel, 316 Stainless Steel, Duplex Stainless Steel, Hastelloy C or Alloy 20

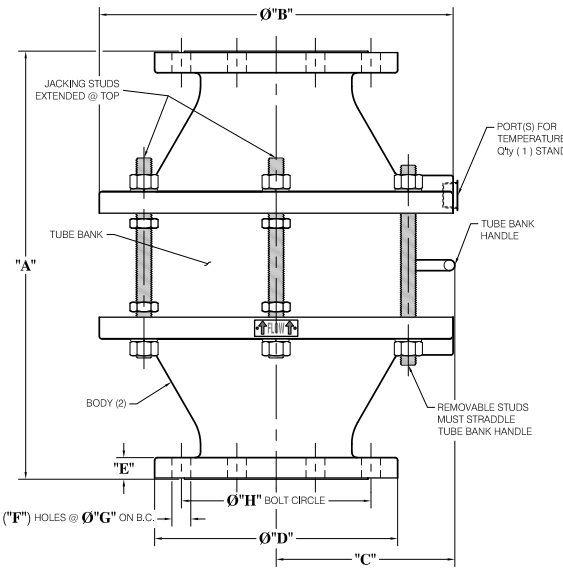
Hardware:
18-8 Stainless Steel, 304 Stainless Steel, 316 Stainless Steel, Duplex Stainless Steel, Hastelloy C or Alloy 20

Gaskets:
High Temperature Synthetic Composition

Outline Dimensions

Dimensions in Inches								
Vent Size	"A"	Diameter "B"	"C"	Diameter "D"	"E"	Holes "F"	Diameter "G"	Diameter "H"
2"	13 3/8	8 1/2	7 7/16	6	5/8	4	3/4	4 3/4
3"	15 3/8	10 1/2	8 5/16	7 1/2	3/4	4	3/4	6
4"	17 7/8	12 3/8	6 1/2	9	15/16	8	3/4	7 1/2
6"	19 7/8	16 3/8	8 1/4	11	1	8	7/8	9 1/2
8"	24 1/2	20 1/2	10 3/8	13 1/2	1 1/8	8	7/8	11 3/4
10"	28 7/8	24 1/2	12 1/4	16	1 3/16	12	1	14 1/4
12"	32 7/8	28 3/4	14 3/8	19	1 1/4	12	1	17

ANSI Connection Dimensions shown. Other Flange Types available.



Installation Note: Locate flame arrester within "x" pipe diameters of potential ignition source.

Run up length "x" =
2''-4'' size- 50 pipe diameters.
6'' size- 20 pipe diameters.
8''-12'' size- 10 pipe diameters.

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