



Prevent Flame Propagation

AT EVERY LEVEL!

TODAY'S CHOICE COULD **Prevent A Mishap Tomorrow**

Your choice in flashback protection for your vapor control system is an important decision in preventing mishaps and the Flame Arrester is a critical safety device in its safe operation. Flame Arresters are passive devices with no moving parts that prevent flame propagation. **All flame arrestors operate on the same principle: remove heat from the flame as it attempts to travel through narrow passages of the tube bank, but they are not all created equal.** The type of arrester you choose depends on the device approvals for its end-of-line or in-line application.

Shand & Jurs designs, manufactures and tests a complete line of end-of-line and in-line flashback protection including flame, deflagration, and detonation arresters with approvals for end-of-line or in-line applications.

Shand & Jurs 9431X
In-Line Detonation Arrester.

Shand & Jurs 94306
End-of-Line Flame Arrester.



Shand & Jurs 94407
In-Line Horizontal
Deflagration Arrester.

Contact us today, 708-236-6000 or sales@ljtechnologies.com and let us help you with your Industrial Storage Tank Safety Equipment.

an **L&J TECHNOLOGIES** company

5911 Butterfield Road | Hillside, IL 60162 | 708.236.6000 | www.ljtechnologies.com



The complete line of Shand & Jurs Arresters are tested and approved for their end-of-line and in-line applications.



The 94306 End-of-Line Flame Arrester is designed and Factory Mutual (FM) approved to isolate and prevent unconfined atmospheric flame fronts with low flash points on storage tanks. They are generally installed in conjunction with pressure-vacuum conservation vents and maximize flow capacity with minimum pressure drop.



The In-Line Vertical (94406) and Horizontal (94407) Deflagration Arresters are in-line tested per the ATEX Directive in conjunction with ISO 16852 to stop flammable flame fronts that have higher pressures/velocities that end-of-line flame arresters cannot prevent from propagating within vapor piping systems. Deflagration Arresters not only provide exceptional protection against propagation of flame, but also offer maximum flow capacity. They are also designed with taps to accommodate temperature monitoring devices to activate a quick closing valve when a flame is detected.



Vertical and Horizontal In-Line Deflagration Flame Arresters Shown With Temperature Probe.



The In-Line 9431X Detonation Arresters are Factory Mutual (FM), NEC Group D or C & D, and United States Coast Guard (USCG) approved, depending on the model, to stop flame fronts in vapor piping systems while allowing maximum flow efficiencies. Detonation flame arresters give the best protection and can be mounted anywhere in the piping system. They can stop the flame propagation at supersonic velocity characterized by a shock wave of all types of deflagrations that transition to stable and unstable detonations in long and complex piping to isolated ignition sources.



Benefits

Tested and Approved

The complete line of Shand & Jurs Arresters are tested and approved for their end-of-line and in-line applications. Factory Mutual (FM), ATEX, NEC Group D and C&D, and United States Coast Guard (USCG) Approvals depending on model in 2" through 12" sizes.

Spiral Wound Technology

Shand & Jurs Spiral Wound Technology allows for a straight through vapor path for less clogging and reduced pressure drop maximizing protection and efficiency with minimum pressure drop.

Removable Core

Our Shand & Jurs line of arresters use removable cores (Tube Banks) to allow easier inspection, cleaning, and/or replacement.

Unitized Tube Bank Construction

The core (Tube Bank) is of unitized construction, which ensures flame quenching capability.

Wide Range of Construction Materials

We use a wide range of standard material construction; Aluminum, 304SS, and 316SS.

Taps for Optional Sensors

Our Arresters are designed with optional taps for pressure and temperature sensor mounting.

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L&J Technologies or any of its subsidiaries assume no responsibility and shall not be liable for any damage, injury or death caused the mis-application or improper installation of the products that it provides. Installation shall be per manufacturer's instructions in accordance to any applicable local, state or federal regulations. It is the responsibility of the purchaser to ensure these guidelines are followed and that the products are applied properly.

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