



PATENTED INNOVATION FROM THE INDUSTRY LEADERS



ILSF-A (Inline Single Flange-A)

The ILSF-A Fav Systems SS Detonation Flame Arrester is Top quality when choosing an inline detonation flame arrester product. When comparing the FAV Systems SS ILSF-A to competitors' models, it reveals definite advantages and value in the following feature. Gasket integrity, flame propagation stoppage through the full flame spectrum, for having the longest continuous burn time ratings for an inline design, for being approved for branch line applications that use a larger header pipe versus a smaller branch line equipped with a detonation flame arrester and for cleanability. The ILSF-A incorporates a machined gasket ring on the element section that will accommodate the usage of standard spiral wound gaskets and common #150 ANSI gaskets of choice. This superior sealing option ensures resealing during cleaning and maintenance. This rugged inline design has been very popular for a wide range of uses. The inline design must be installed in a 45 degree due to the fact that if it is in the horizontal position there is a low spot for fluid build up.

The ILSF-A has been vigorously tested to common conditions found in production and processing of a variety of flammable fluids and gases. The ILSF-A testing has been verified by CSA and the United States Coast Guard to comply to appropriate test protocols for each governing body. These test reports are available upon request. The ILSF-A will perform in demanding situations. The flame quenching process is patented and incorporates the use of a ceramic bead pack to segregate and cool an approaching flame front, which quenches or snuffs out the combustion. The maximum temperature rating of the alumina ceramic is well over the melting point of carbon or stainless steels. This feature ensures the flame barrier between safety and danger remains broad for personnel and equipment protection needs.

The ILSF-A does incorporate a 1" thick continuous burn grid versus a 1 1/2" thick grid used in the OSDF and the OSSF. The ILSF-A has been tested and independently verified that it will pass the 2-hour continuous burn requirements by the USCG. The offset designs give you more protection because they are thicker which translates into an extra cost. The ILSF-A units are adequate for the general application at an affordable price. If you were to compare the continuous burn times of the V units to others on the market, the ILSF-A is way out in front. FAV Systems Inc. affords the maximum safety window for personnel to react to the situation or for the situation to change and go away. FAV Systems Inc. has invested countless hours and funds to develop the continuous burn protection that we offer in our detonation flame arrestors. We operate a production equipment rental division that has equipment subjected to all conditions. We have verified that continuous burns occur more often, or there are more chances of a continuous burn occurring than there is of having a severe flashback. Most common continuous burns are severe but only last about 1 hour. Generally they are detected and addressed or the process condition changes which in turn changes the continuous burn. Also there is a danger that during a continuous burn, if the flow is shut off and the detonation flame arrester is inadequate, the flame can jump through the element once the velocity drops and you can get a failure. If you are safety minded, invest in the best, FAV Systems Inc. SS Detonation Flame Arrestors.

**THE ILSF-A IS A GOOD ALL AROUND DETONATION FLAME ARRESTOR
THAT IS GENERALLY USED THROUGHOUT MANY INDUSTRIES.**

SPECIALIZED IN PREVENTING FUGITIVE EMISSIONS

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DETONATION
AND FLAME
ARRESTORS

FAV SYSTEMS INC.
DETONATION FLAME ARRESTOR



PATENTED STATE-OF-THE-ART TECHNOLOGY WORKING FOR YOU!

ILSF-B (In line Single Flange-B)

The ILSF-B FAV Systems Inc. SS Detonation Flame Arrester incorporates all the working features of the ILSF-A with inly one difference. The flame-quenching element does not have a machined gasket face on it. Spiral wound gaskets cannot be used. The ILSF-B uses sheet gaskets that are compressed between two machined surfaces. This sealing system on the quenching element is the most commonly used in the oil and gas industry where economics play a big key in purchase decisions. The gasket arrangement meets all code requirements and are easy to manufacture. The compression seal is more than adequate for low pressure lines that are carrying volatile vapours. Most manufacturers use this approach to cut costs so they can pass the savings onto the end user. There are hundreds of these systems in service and they are performing great.



THE ILSF-B IS THE BEST BUY FOR A GENERAL ALL AROUND DETONATION FLAME ARRESTOR WITH A REMOVABLE QUENCHING ELEMENT.

ILNF (In line No Flange)



The ILNF offers all the working characteristics of the ILSF-A and B but does not have a removable flame quenching element. The flame-quenching element is welded into the unit. The ILNF has CSA verification of performance subjected to the same testing as the ILSF-A and B. The ILNF does not require gaskets and is lightweight. The ILNF is considerably more economically priced. The ILNF is a product that will give you all the protection required, but has a different twist. The whole union has to be removed to be cleaned. In most cases there are fewer bolts required to remove the whole unit then there is just to remove the element from the ILSF-A&B models. The ILNF units can be manufactured out of stainless steel and exotic metals for much less than units with removable elements. Spare units can be purchased for marginally higher prices than spare elements and you can actually have two complete units to utilize if need be.

THE ILNF IS A NEW COMER TO THE INDUSTRY BUT IS THE PRACTICAL WAY TO GO IF YOU NEED TO HAVE PROTECTION AT A BELOW AVERAGE COST. BE ADVENTUROUS AND BE A PIONEER WHEN IT COMES TO TRYING NEW PRODUCTS.

Deflagration Detonation Flame Arrester

The Deflagration Flame Arrester has all the same working characteristics of the ILNF with two exceptions. The first is that we reduced the internal support required to handle an overdriven detonation. Overdrive Detonation Flame fronts are like standing the detonation arrester on it's end and dropping a pile driver weight onto the grid. All other flame fronts are easily contained and do not generate the force. All the other internal components are identical to the ILSF-A, ILSF-B and ILNF. The second difference is that the Deflagration Detonation Flame Arrester has been subjected to and passed internal testing only. The DDFA is designed specifically to give adequate protection at a rock bottom price. Many of the crimped ribbon flame arrestors that are sold on the general market are false security. If they were subjected to testing in comparison to the DDFA they would fail dramatically. FAV Systems has done testing and has seen these failures. The DDFA has been designed to take place of the many crimped ribbon flame arrestors out in the industry that are misapplied and are a liability if they were subjected to an event.



ALL FAV SYSTEMS SS DETONATION FLAME ARRESTORS HAVE SUPERIOR FLAME FRONT QUENCHING ABILITY, SUPERIOR CONTINUOUS BURN RATING, SUPERIOR CLEANABILITY AND WE HAVE A DESIGN TO MATCH ALL BUDGETS.

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