

PS INSTRUMENTS

FLOW • LEVEL • MEASUREMENT

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Flame Arrester Manufacturers

A flame arrester is a safety device designed to prevent the spread of fire from one area to another through an opening in a partition or a pipe.



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Flame Arrester Manufacturers

P S Instruments is a specialty [Safety Equipments](#) Manufacturers A flame arrester is a safety device designed to prevent the spread of fire from one area to another through an opening in a partition or a pipe. It functions by allowing fluid or gas to pass through it while preventing a flame from propagating. Flame arresters are commonly used in industries such as petrochemical, oil and gas, and chemical processing where flammable liquids and gases are stored, processed, or transported. The type of flame arrester used depends on the application, the operating conditions, and the type of flammable material being handled.

Product Details

SPECIFICATION

Size	: 15NB TO 800NB (ANSI/ASA/ASME B16.5/PN/NPT)
Temperature	: Upto 300 Deg C
Pressure	: Upto 100 bar
Color	: Red, Orange as per requirment
Material	: ASTM A216 GR. WCB(CS), SS 316, SS 304, FORGED STEEL ASTM A105, ALUMINIUM, MS, BOROSILICATE TOUGHENED, SS 316TI, PTFE, RUBBER, CAF, FEP, METALLIC SPIRAL WOUND GRAPHITE, and other as per customer requirement.
Usage	: Prevent a Larger Fire or Explosion

Flame Arrester Operation

The operation of a flame arrester depends on the type of device and the specific application. Generally, flame arrestors are installed at the inlet and/or outlet of a tank, vessel, or pipeline where flammable gases or vapors are present. When a flame or explosion occurs inside the system, the flame arrester prevents the flame from reaching the outside by extinguishing it or preventing it from propagating.

There are several types of flame arrestors, including deflagration and detonation flame arrestors. Deflagration flame arrestors are designed to stop low-velocity flames, while detonation flame arrestors are used to stop high-velocity flame fronts. Some flame arrestors use a mesh or perforated plate to disrupt the flame's path and quench it. Others use a chemical reaction or an active suppression system to extinguish the flame.

Proper installation and maintenance of flame arrestors are essential to ensure their effectiveness. Flame arrestors can become clogged or damaged over time, so regular inspection and cleaning are necessary to maintain



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Flame Arrester Usage And Application :

Flame arresters are used in various industries where flammable liquids and gases are stored, processed, or transported, including:

- Petrochemical Industry
- Oil and Gas Industry
- Chemical Processing
- Mining
- Agriculture
- Pulp & Paper
- Oil – Exploration & Production, Landfills
- Storage Tanks Etc..



**Flame Arrester
(In of Line Deflagration Type)
(FDI-FA-710)**

The specific type of flame arrester used and its application depend on various factors, including the type of flammable material being handled, the operating conditions, and the design and layout of the system. Proper selection and installation of flame arresters are critical to ensure effective protection and prevent fire or explosion.

SAFETY

A flame arrester is a device that prevents the spread of flame from one area to another. It is commonly used in the oil and gas industry to prevent fires and explosions in pipelines, storage tanks, and other areas where flammable liquids are stored or transported. A flame arrester works by disrupting the flame front and dissipating heat, making it difficult for the flame to continue to propagate. To ensure safety, flame arresters must be properly selected, installed, and maintained to ensure they function as intended in the event of a fire or explosion.

APPROVAL

Portotype testing as CMRI standard.

Categories of Flame Arrester



**Flame Arrester
(Drum Type) (FDI-FA-711)**







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