



ALPHA VACUUM TECHNOLOGY

Plot No. 15/1, Radhe Estate Phase-4, Nr. Nika Tube Cross Road, GIDC,
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Flame Arrester

AE flame arresters represent the best value in flame arrester protection. The arresters are bi-directional and can stop low, medium, and high pressure deflagrations. This design utilizes a superior element assembly that dampens the high velocities and pressures associated with deflagrations and detonations while quenching the front flame.

Product Description

This flame arresters are designed to stop the propagation of confined low pressure deflagration. It is typically used for end-of-line and near-end-of-line applications when the system operating pressure is near atmospheric levels and when there is minimum probability of a flame stabilizing on the flame arrester element for an extended period. Designed with flanged connections, this arrester allows removal of the element for easy cleaning and replacement without removing the arrester body from the pipe connection.



Figure 1 In-line Flame Arrester

Product Type

In-line Flame Arrester:-An arrester which has been designed and tested to arrest flame fronts of varying pressures and speeds with both restricted and unrestricted protected side piping.

End-of-line Flame Arrester:-This type of flame arrester is used where the potential ignition source is located outside the vessel or flow system that is being protected. AE flame arresters are designed to allow free venting in combination with flame protection for vertical vent applications. This product is installed at the top of an atmospheric vent line or storage tank.



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Construction Materials

Body:-Carbon steel, 304 Stainless steel, 316 Stainless Steel, Aluminium

Element:- 304 Stainless steel, 316 Stainless Steel

Gasket:-Standard compressed fiber gaskets that withstands temperature of 450°F/232°C

Stainless steel Spiral wound graphite filled gasket are available on request.

Note:-Other materials on request

Connections

AE flame arresters are normally provided with 150 Class raised face or flat face flanges.

Features

- Maximum flow
- Less pressure drop
- Easy Cleaning
- Less Clogging
- Less Maintenance
- Bi-directional Design
- Removable Element Design allows for easy inspection, cleaning and replacement
- All Detonation Flame arresters are designed for unstable detonations



Figure 2 Free Vent Flame Arrester/
Tank Vent Flame Arrester