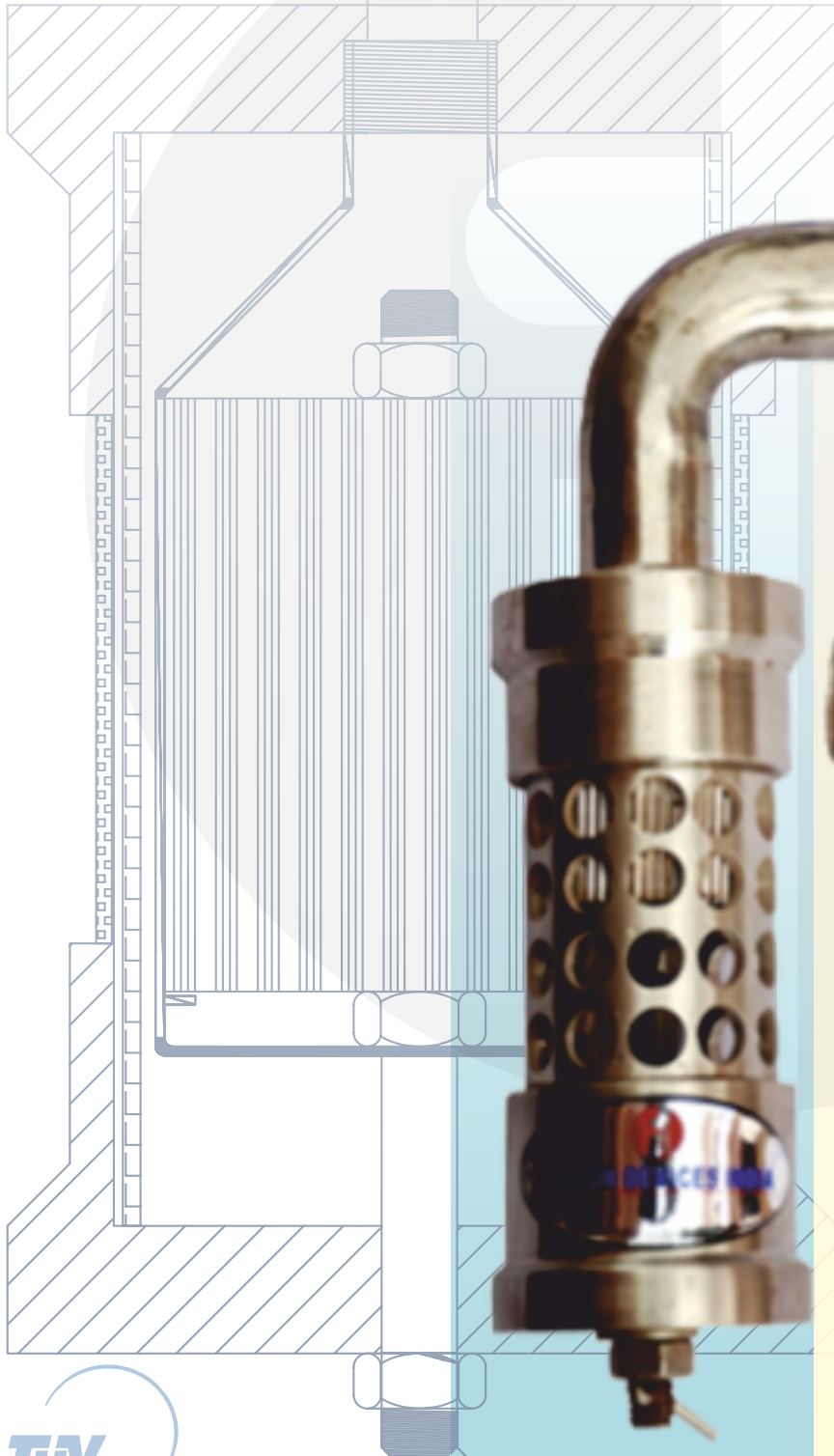


FLAME ARRESTER DRUM VENT TYPE

[FDI - FA - 711]

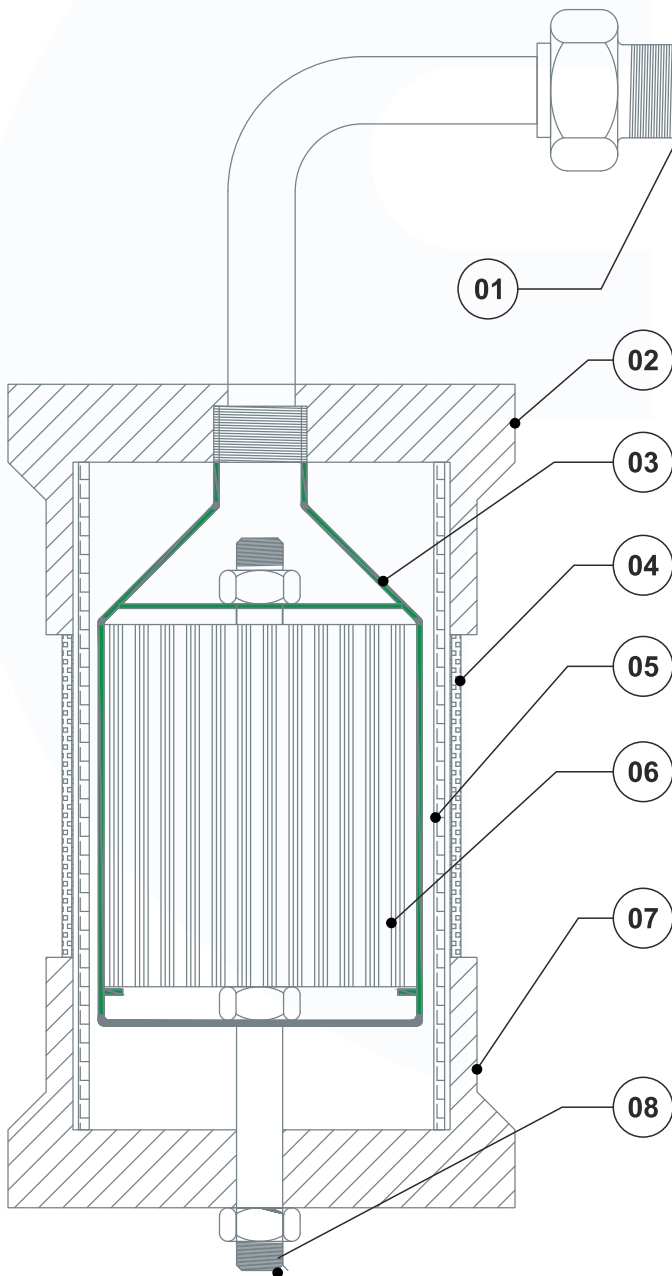


WORKING PRINCIPLE

Drum Vent Flame Arrester works on similar principle as other categories, where the flame banks are typically made from the crimped metal ribbon strips maintaining the gap required for the gas as per IEC 60079. This type of Flame Arrester Arrangement is Generally used on Drums, Small Reactors and process tanks, where nature of the chemical is non toxic and hazardous, it extinguishes the flame propagating and allows breathing of the tank naturally free vent to atmosphere.

The Construction of the Device is made such as a Coupler Body is generally holding the assembly and flame bank and it has a perforated sheet and combinations of mesh screen to prevent external debris to enter into it. End connection is mostly of the threaded type and it has a 90 Degree Bend, making product easy to mount and use.

Application of the Explosion is Mostly, Flashback prevention and deflagration proof as the distance between the potential ignition source and the flame arrester is practically very low and direct, ISO 16852 shall be used to determine the type of the explosion category your application falls in and shall be installed the same.



Further in Assembly Housing is prepared of the cone geometry and cylindrical housing that helps in the flow contours remain smooth and pressure drop. Flame Bank Elements are Assembled in it which has a optimal porosity, that choked flow condition does not occur. Product requires very minimal periodic maintenance also varies based on the chemical properties,

Size : up to 6"

Connection Type : Threaded (BSP / NPT)

Type : Open to Atmosphere

Mounting : End of the Line / Top of the Tank

For Preferred Hazardous Zone : 02

Gas Group : as per customer's specs.

Flow Capacity : up to 2000 Nm³/Hr of Air @ NTP.

Pressure Rating : up to 50 kg/cm²

Temperature Rating : up to T1 Class (450 Degree C)

Explosion Category : Deflagration, Anti Flash Back

Pressure Drop : Approx. 100 ~ 1000 mmwc

01	End Connection
02	Coupler - Body
03	Flame Bank Housing
04	Perforated Bird Screen
05	Mesh Screen
06	Flame Bank
07	End Coupler - Body
08	Fasteners