



Top Inline Flame Arrestors for Premix

Flame Arrestors automatically protect combustion controllers or mixers.

How It Works

Inline flame arrestors automatically prevent explosions and protect combustion controllers or mixers in industrial premix gas combustion applications when there is a flashback.

The Selas inline Flame Arrestor is basically a directed-flow release device combined with a check valve.

It includes a check valve, rupture disc, electrical switch, and a flame arresting screen.

Blowouts are normally used in pre-mixed combustion systems operating with such fuel gases as natural gas, propane, butane, or the common manufactured gases.

Applications:

- Provides overpressure protection for gas combustion controllers and blowers



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Operating Principles

In normal operation, the combustible gas/air mixture passes freely through the blowout. In the event of flashback or backfire, the increase in back pressure will cause the check valve to close and momentarily interrupt the flow of premixed gases. The pressure buildup then shatters the rupture disc thus releasing the flashback pressure and hot gases from the pipe via a vent to a safe area. (Suitable piping is required to conduct the hot gases and shattered disc material to a safe location). Rupture of the disc automatically trips the electrical switch which can be employed to command such functions as shutting off the fuel supply or sounding an alarm. The flame arresting screen delays the flame from progressing until the fuel supply is interrupted.

Features	Benefits
Includes check valve, rupture disc, switch, and flame-arresting screen	Protects combustion controller piping
Disc is designed to rupture under extreme pressure	Automatically trips switch to shut off fuel supply
Fulfills safety requirements	Protects personnel, equipment and processes



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