



Selas Automatic Firecheck

The Selas Automatic Firecheck is a specialized safety device that prevents flashbacks in premix combustion systems. It confines flashbacks to a flame screen until heat sensors trigger valve closure. The device includes a shut-off valve, check valve, corrugated fire screen, and thermal latch. Its stainless-steel valve stem and bronze bushing ensure noncorrosive, long-lasting operation, providing quick and positive closure to stop gas/air mixture flow. Additionally, the firecheck is available with self-contained, heavy-duty, splash-proof, or explosion-proof switches, making it dependable in hazardous areas. This combination of features makes it ideal for meeting safety requirements in premix combustion systems.

Applications:

- Meets safety requirements on premix combustion systems

How It Works

To ensure safe operation with Selas Automatic Firechecks, follow these steps: During regular operation, the combustible fuel/air mixture flows freely through the firechecks. If a flashback occurs, the sudden increase in back pressure will cause the check valve to close, momentarily interrupting the forward flow of the mixture. This reduced flow, combined with the firecheck's internal configuration, allows the backward-traveling flame to sit on the fire screen. The tiny holes and chilling capacity of the fire screen hold the flame until the thermal element heats up and releases the latch to close the shut-off valve. This valve closure stops the fuel/airflow, preventing the flashback from proceeding past the firechecks. The shut-off valve will remain closed until it is manually reset.

Features	Benefits
Fire screen with chilling capacity	Confines flashback until trigger valve closes
Installs in fuel mixture supply line close to burner	Configured to stop a backward-traveling flame at the fire screen
Fulfills safety requirements	Protects personnel, equipment, and processes from harm
Flashback confinement to flame screen	Ensures safety by containing flashbacks within the flame screen until heat sensors trigger valve closure
Stainless steel valve stem and bronze bushing	Provides noncorrosive, long-lasting operation, reducing maintenance needs
Manual reset mechanism	Enhances safety by requiring manual reset after shut-off, ensuring the system is checked and safe before restarting



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