



PRODUCT CATALOGUE

Flame Arresters

EC TYPE TESTED & EAC CERTIFIED

Prevent flame propagation through piping, vent systems and tank openings containing flammable vapours.





Overview

PRECON® became the first Indian manufacturer to achieve EC Type Examination Certification for Flame Arresters, marking an important milestone in the development of internationally certified flame protection equipment in India. The product range is also EAC certified for applicable Eurasian markets.

In installations handling flammable gases or vapours, an ignition outside the protected system can create a rapidly travelling flame front. A flame arrester is designed to stop that flame before it can propagate further into the piping system or protected vapour space.

PRECON® Flame Arresters use a carefully engineered flame arresting element developed to absorb and dissipate heat from the advancing flame front, reducing its temperature below the level required to sustain combustion — a passive safety device that provides continuous protection without requiring external power or active intervention.

How It Works

At the heart of every PRECON® Flame Arrester is a precisely engineered corrugated wound matrix flame arresting element, manufactured by winding corrugated and flat metallic strips together to create a dense matrix of narrow, uniform flow passages.

During normal operation, process gases and vapours pass through these channels with controlled pressure drop. If a flame front enters the arrester, the narrow passages and large metallic surface area rapidly absorb and dissipate heat from the flame, preventing it from propagating through to the protected side.

Key Features

- EC Type Examination Certified — first Indian manufacturer
- EAC Certified for Eurasian Economic Union markets
- Available in In-Line and End-of-Line configurations
- Engineered flame arresting element for reliable flame quenching
- Low pressure drop across the arresting element
- Available for different gas groups and operating conditions
- Multiple materials of construction and connection options
- Designed for inspection, maintenance and element servicing

Available Configurations

PRECON® Flame Arresters are available in End-of-Line and In-Line configurations, selected based on application and certification requirements.



TYPE 01

Inline Deflagration

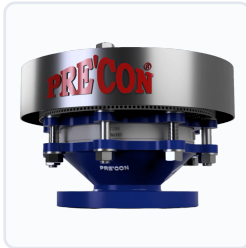
Installed within process or vapour piping to stop deflagration-type flame propagation between interconnected equipment, while allowing continuous vapour flow during normal operation.



TYPE 02

Inline Detonation

Installed within process or vapour piping for applications where flame acceleration to detonation is possible, providing a higher level of flame arresting performance.

**TYPE 03****End of Line Deflagration**

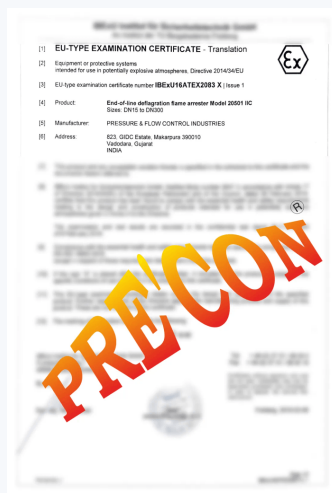
Installed at the termination of a vent line or directly on a tank vent opening to protect against flame propagation into the vent from an external ignition source.

Typical Applications

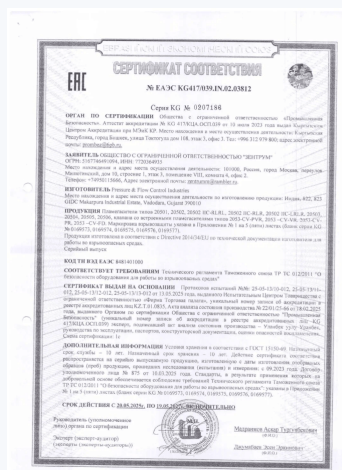
- Atmospheric and low-pressure storage tank vents
- Process vent lines
- Vapour recovery systems
- Flare and vent header systems
- Loading and unloading facilities
- Marine vapour transfer systems
- Chemical and petrochemical process lines
- Refinery and hydrocarbon storage installations

Third-Party Certification

Our certified product range reflects third-party testing and validation in accordance with applicable international flame arrester requirements.



EC Type Examination



EAC Certificate

Protection Where It Matters Most

Flammable vapours may be invisible. An ignition source may appear without warning. That is why flame protection must already be in place before an incident occurs.

PRECON® Flame Arresters are engineered to create that critical barrier between an ignition source and the protected process.

Allow the process to breathe. Stop the flame from travelling further.

WHY PRECON

Built for the demands of the global process industry.

Since 1975

Five decades engineering tank safety equipment

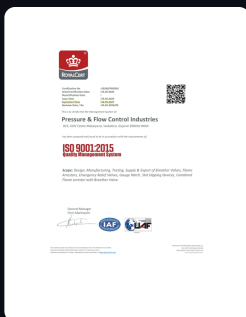
400+ Customers

Served across India and international markets

ISO Certified

9001 · 14001 · 45001 quality & safety systems

CERTIFICATIONS



ISO 9001



ISO 14001



ISO 45001

GET IN TOUCH

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