

# Flashback Guards & Spark Arresting Panels



A conventional flame arrester is not usually a cost-effective way of protecting air intakes or fuel/air intakes on larger burners and oxidizers from the risk of flashback into flammable atmospheres. Flashback guards are normally used for these duties. Spark arresting panels behave as filters to remove incandescent particles from the process gas stream.



## Principles of Operation

A knitted mesh panel placed in an air stream allows a continuous flow of air, with a much lower pressure drop than that afforded by a flame arrester, but restricts the passage of particles (including sparks), from one part of a plant, system or process into another.

## Benefits

Fitting a flashback guard or spark arresting panel provides an extra layer of protection to plant personnel working on or near to equipment which releases incandescent particles such as burners and oxidisers.

The panels also offer a physical barrier which can prevent unwanted items such as rubbish, dropped tools, or animals and birds from entering the protected equipment. The guards are manufactured from stainless steel and custom-designed in modular or single-piece units for each individual application, allowing for ease of installation and retro-fitting.

## Features

- Corrosion resistant stainless steel materials
- Single piece or modular designs
- Standard circular or rectangular designs
- Alternative geometries/arrangements on request
- Sizes to order, available in 1mm increments
- Frames and mounting tailored to customer requirements
- Panels use KnitMesh Technologies® knitted wire mesh
- Simple method of reducing hot particle emissions
- Very low air-flow resistance

## Quality Assurance

KnitMesh Technologies® is accredited to:  
ISO9001:2008, ISO14001:2004, OHSAS18001:2007,  
PAS 99:2006 and ISO/TS16949:2009



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