

Spark Arrestors/ Pre-Filters

For high efficiency air
filtration systems

Introduction

VOKES Spark Arrestors/Pre-Filters are designed for installation up-stream of absolute filters in applications where there is a risk of fire. Intended to protect absolute filter media from fire damage, they are non-combustible panels which prevent glowing embers and large particles from reaching the absolute filter. There are two types of unit, a spark arrester which does not perform a filtration function and a combined spark arrester/pre-filter.

Spark arrestors/pre-filters can be fitted into ductwork using separate frames, directly fitted to an absolute filter using a mounting frame or contained within the pre-filter sections of a Unipak Containment System. Although principally designed for use with high efficiency filters, they can also be used to protect other types of equipment.

Spark Arrestors

VOKES Spark Arrestors are intended to perform the function of a spark trap and not a pre-filter. Fitted up-stream of an absolute filter, they are designed to prevent the passage of sparks and flames, while offering a minimal pressure drop.

Designed to meet performance requirements within the nuclear industry, they are also suitable for use in a wide range of air handling systems.

Construction

- Media:** Contains alternate layers of flat and crimped steel wire.
- Frame:** A rigid mild steel frame with a corrosion and heat resistant paint finish. Similarly treated mild steel grilles are fitted on both sides.
- Gasket:** Available with or without a silicone rubber gasket.
- Specification:** VOKES spark arrestors are designed to meet the requirements contained in AES 30/93700 Type 2.

Performance

- Air Volume Capacity:** Two standard spark arrestors are available with air volume capacities of 340 m³/h (94 l/s) and 1,700m³/h (470 l/s).

Initial Resistance: <25 Pa. at the rated flow.

Max. Temp.: 250°C continuous

500°C short periods only

Dimensions: 340m³/h Spark Arrester – 304 x 304 x 51mm (57mm with gasket)
1,700m³/h Spark Arrester – 609 x 609 x 51mm (57mm with gasket)

Spark Arrester/Pre-Filters

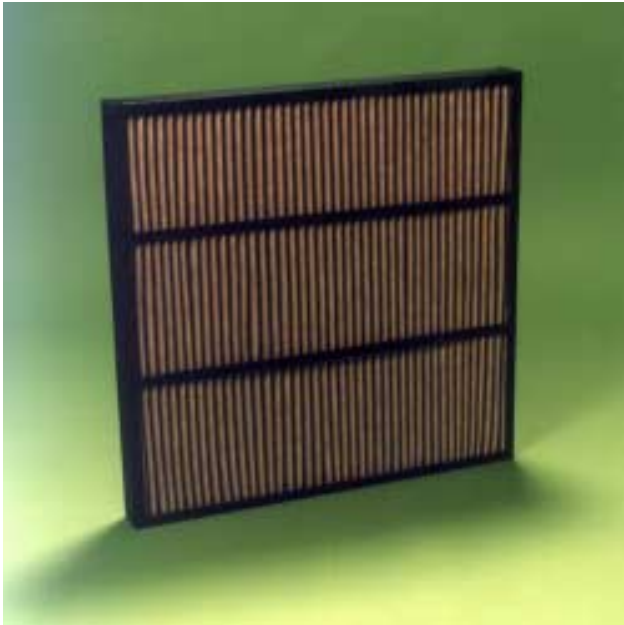
VOKES Spark Arrester/Pre-Filters are designed to be fitted up-stream of absolute filters, to provide a combined pre-filter and spark trap. In the event of a fire the glass wool filter media fuses, leaving a double layer of wire mesh to hold back the flames.

Designed to meet performance requirements within the nuclear industry, they are also suitable for use in a wide range of air handling systems. Where full fire protection is required, a separate VOKES Spark Arrester should be fitted.



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Filtration Technology



Construction

- Media:** A layer of glass wool filter media, sandwiched between two layers of steel wire mesh and pleated to give an increased surface area.
- Frame:** A rigid mild steel frame with horizontal supporting strips. The frame assembly has a corrosion and heat resistant paint finish.
- Gasket:** Available with or without a silicone rubber gasket.
- Specification:** VOKES spark arrestor/pre-filters are designed to meet the requirements contained in AESS 30/93700 Type 1.

Performance

- Air Volume Capacity:** Two standard spark arrestor/pre-filters are available with air volume capacities of 340 m³/h (94 l/s) and 1,700m³/h (470 l/s).
- Initial Resistance:** <50 Pa. at the rated flow.
- Max. Temp.:** 250°C continuous
500°C short periods only
- Dimensions:** 340 m³/h Spark Arrestor – 304 x 304 x 51mm (57mm with gasket)
1,700m³/h Spark Arrestor – 609 x 609 x 51mm (57mm with gasket)



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*The company reserves the right to change specifications without notice.
Freedom from patent restrictions must not be assumed.*



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