

TECHNICAL DATA **Flame Arresters**

SVE Series



Light Duty End of Line Flame Arresters with Fixed Elements

Application:

The Elmac Technologies Limited, SVE series of light duty end of line deflagration arresters is designed for installation at the end of a pipeline or on an atmospheric vent from vessels where flammable gases or vapours may be present. SVE arresters provide an economical solution for situations where a simple light weight product is required. Typical applications include gas purging of equipment, sample lines and instrumentation lines.

Principle of Operation

A flame arrester uses an element with small apertures which allows gas or vapour to pass. If the apertures are smaller than the maximum experimental safe gap (MESG) for the gas or vapour then a flame cannot pass through the arrester; and is subsequently contained or extinguished.

Benefits

- Available in sizes from 15mm to 50mm nominal bore
- Suitable for gases with MESG \geq 0.65mm (gas group IIB3)
- Lightweight arresters in carbon steel or stainless steel
- BSP/NPT screwed connections in accordance with ISO7-1 and ISO7-2
- Optional weatherhood for environmental protection
- The Elmac technical team can advise on specific location queries

Gas Groups

Elmac end of line deflagration arresters in the SVE series are for use with gases in Groups I, IIA, IIB1, IIB2 and IIB3.

Standards Compliance

All Elmac end of line deflagration arresters have been tested and certified in accordance with national or international standards. Actual device performance is verified in the Elmac Technologies "state of the art" in-house test facility.



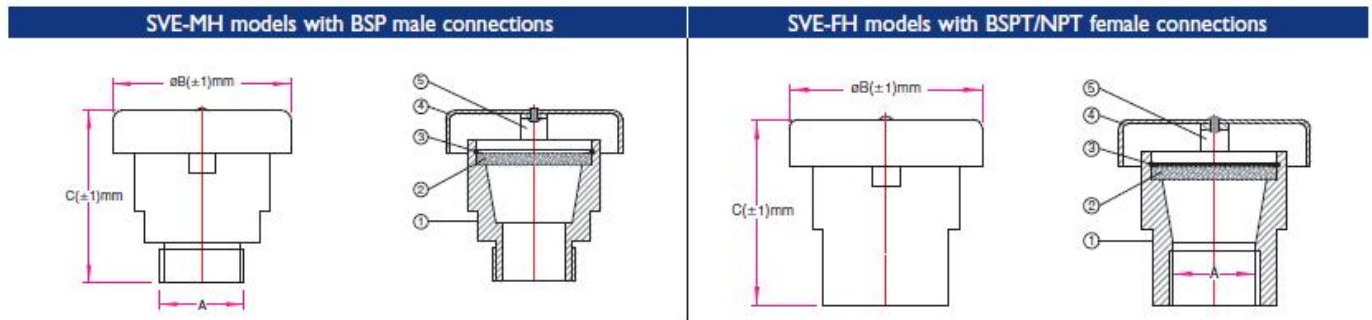
Elmac Expertise

Elmac have been manufacturing flame arresters since 1948, and bring enhanced levels of flame and explosion protection to a diverse range of applications. Elmac Technologies offers considerable technical leadership and using test facilities along with CFD capabilities, employs research teams renowned for developing solutions for the most challenging of industrial applications.

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Drawings:



Material Specifications

Ref	Description	Carbon Steel Models	Stainless Steels Models
1	Body	Mild Steel	Stainless Steel
2	Element Core	316L Stainless Steel	316L Stainless Steel
3	Element Core Retaining Ring	Stainless Steel	Stainless Steel
4	Weatherhood	Stainless Steel	Stainless Steel
5	Hood Support Clip	Stainless Steel	Stainless Steel

Model Specifications

NB (mm)	Dimensions (mm)				Weight (kg)	ø Element (mm)
	A (male)	A (female)	øB (mm)	C (mm)		
10	3/8" BSP	3/8" BSPT/NPT	41	58	0.15	25
15	1/2" BSP	1/2" BSPT/NPT	41	58	0.15	25
20	3/4" BSP	3/4" BSPT/NPT	70	67	0.3	44
25	1" BSP	1" BSPT/NPT	70	67	0.3	44
40	1 1/2" BSP	1 1/2" BSPT/NPT	112	77	0.5	79
50	2" BSP	2" BSPT/NPT	112	77	0.5	79

SVE Flow Curves

Air flow at 1atmosphere (101.325kPa) and 0°C

