

AVC Series Flame Arresters



Protecting People, Property and our Planet.

End-of-line Deflagration Arrester with Replaceable Element for Explosion Group IIB & IIC.

Elmac Technologies® AVC Series End-of-line Deflagration Arresters are designed to be installed at the end of a pipeline or exit vent from a vessel, where the ignition source is external, to provide protection against atmospheric deflagration.



Principle of Operation

During a deflagration, the combustion products are cooled at the element surface by heat dissipation, which prevents continuation of the combustion process through the flame arrester and into the protected vent line.

Explosion Groups

Elmac AVC Series Flame Arresters are for use with gases in Explosion Groups IIB & IIC. This is the most volatile gas group and requires a more substantial element to be able to cope with the atmospheric explosion.

Standards Compliance

All Elmac End-of-line Deflagration Arresters have been tested and certified in accordance with national and international standards. Actual device performance is verified in the Elmac Technologies state-of-the-art in-house test facility.



Elmac Expertise

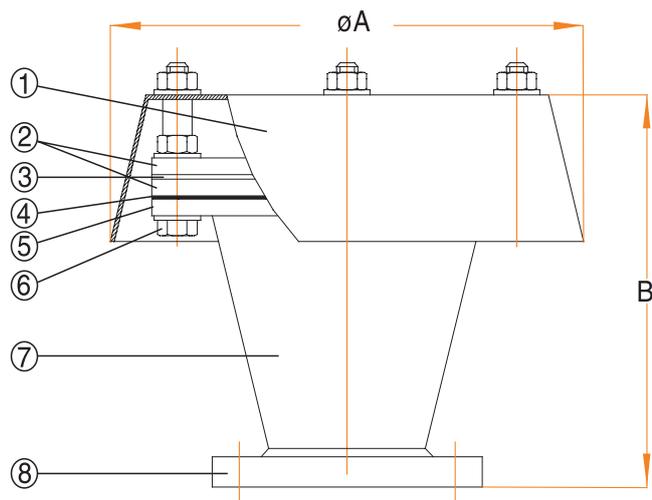
Elmac Technologies® has been manufacturing protection equipment since 1948 and brings enhanced levels of flame and explosion protection to a diverse range of applications.

Elmac offers considerable technical leadership and, utilising a range of testing facilities along with Computational Fluid Dynamics (CFD) studies, employs research teams renowned for developing solutions for the most challenging of industrial applications.

Features and Benefits

- Large variety of sizes and materials to suit a wide range of applications
- Variants available for different operating temperature range -20°C to +60°C
- Options available for sour environments
- Optional weatherhood
- Replaceable elements
- The Elmac technical team can advise on specific location queries

General Arrangement:



Materials Specifications

| Ref | Description | Carbon Steel Models | Low Temp Carbon Steel Models | Stainless Steel Models | Hastelloy Models |
|-----|-------------------|-------------------------------|------------------------------|------------------------|------------------|
| 1 | Weatherhood | Stainless Steel or Mild Steel | Stainless Steel | Stainless Steel | Hastelloy |
| 2 | Element - housing | Carbon Steel | Low Temp Carbon Steel | Stainless Steel | Hastelloy |
| 3 | Element - core | Stainless Steel | Stainless Steel | Stainless Steel | Hastelloy |
| 4 | Gaskets | Klingsil C4400 | Klingsil C4400 | Klingsil C4400 | Klingsil C4400 |
| 5 | Body ring | Carbon Steel | Low Temp Carbon Steel | Stainless Steel | Hastelloy |
| 6 | Fasteners | Carbon Steel | Stainless Steel | Stainless Steel | Hastelloy |
| 7 | Reducer | Carbon Steel | Low Temp Carbon Steel | Stainless Steel | Hastelloy |
| 8 | Fixing flange | Carbon Steel | Low Temp Carbon Steel | Stainless Steel | Hastelloy |

Dimensions

| NB (mm) | 25 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| \varnothing Element (mm) | 50 | 80 | 100 | 125 | 150 | 200 | 250 | 300 | 300 | 400 | 450 | 500 | 600 |
| $\varnothing A$ mm | 178 | 223 | 255 | 255 | 300 | 370 | 450 | 510 | 510 | 650 | 750 | 800 | 950 |
| B mm | 135 | 158 | 177 | 221 | 225 | 261 | 308 | 339 | 341 | 583 | 582 | 724 | 770 |
| Approx Wt (kg) | 3.5 | 5.0 | 6.6 | 9.5 | 14 | 23 | 32 | 43 | 46 | 106 | 130 | 163 | 212 |

Customer Support

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All specifications are correct at time of print, are for guidance purposes only and subject to change without prior notice.



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