

Flame arresters and low pressure venting equipment



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Elmac Technologies® is renowned for bringing enhanced levels of safety protection to the world's most challenging industrial environments.

In this brief guide, we outline our range of flame arresters and low pressure venting equipment.

Elmac's range of products are designed for various applications and conditions, please visit our website www.elmactechnologies.com email info@elmactechnologies.com or call + 44 (0) 1352 717600 for specific advice.

Flame Arresters (ATEX Accredited)

End-of-Line deflagration flame arresters

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.



AVA Series

- Replaceable element
- Gas groups I and IIA
- 15 – 400mm NB



FE-EXH Series

- Replaceable element
- Gas groups up to IIB3
- 15 – 400mm NB



AVC Series

- Replaceable element
- Gas groups up to IIC
- 25 – 150mm NB



SV Series

- Light duty
- Fixed element models
- Gas groups up to IIB3
- 10 – 50mm NB



SVE Series

- Light duty
- Fixed element models
- Gas groups up to IIB3
- 15 – 50mm NB



FE-IE Series

- For use with Pressure / Vacuum Relief Valves
- Gas groups up to IIB3
- 15 – 300mm NB

In-Line deflagration flame arresters

In-line deflagration arresters are designed for pipeline installation close to the potential source of ignition.

In-Line detonation flame arresters

Elmac models are designed for the worst-case unstable detonation conditions in pipelines.



SGE-IB Series

- Replaceable element
- Gas groups up to IIB3
- 15 – 400mm NB



DFB Series

- Replaceable element
- Gas groups up to IIB3
- 25 – 150mm NB



DFC Series

- Replaceable element
- Gas groups up to IIC
- 25 – 150mm NB



MB-IB Series

- Microbore units for gas sampling/analysis
- Gas groups up to IIB3
- 15 – 20mm NB



CE-IB Series

- Replaceable element
- Gas groups up to IIB3
- 15 – 200mm NB

Low Pressure Venting Equipment

Storage tank and vessel protection

Elmac tank fittings are designed to protect tanks from rupture or implosion during filling and/or emptying cycles. They limit product loss and environmental discharges whilst also protecting tanks during thermal changes.



Pressure/Vacuum Relief Valves

- Pressure-only, vacuum-only or combined
- Weight or spring loaded
- 50 – 300mm NB



Tank Blanketing Valves

- Prevent ingress of air / moisture
- Reduce evaporation of stored product to negligible amount
- 15 – 100mm NB



Bursting Discs

- Wide choice of materials and designs
- Forward and reverse acting
- 50 – 400mm NB

Tank access and ventilation



Manways

- Pressure-only and pressure/vacuum relief emergency manways
- PV models have additional spring-loaded vacuum valve
- 250 – 600mm NB



Gauge Hatches

- For measurement and sampling
- Safety pedal for 'hands-free' operation
- Pressure relief option available



Vents

- Free vents and filter vents
- Wide range of sizes/materials
- Customised designs for individual applications

Ancillary Equipment



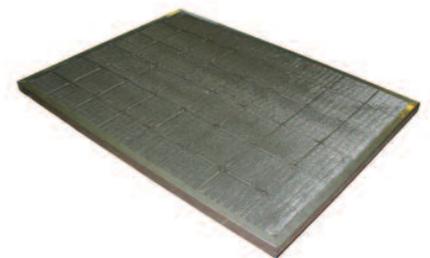
Thermocouples

- For use with deflagration and detonation arresters
- Temperature measurement of process flow
- Tailored to customer requirements



Pressure Transducers

- For inclusion in Elmac in-line deflagration and detonation arresters
- Enable valuable process monitoring/creation of data streams



Flashback Guards & Spark Arresters

- 304L and 316L stainless steel
- Knitted mesh panels
- Customised design for individual applications
- Tailored frames and mountings

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