



# EMERSON™

## ANDERSON GREENWOOD AMAL FLAME ARRESTERS

### OPERATING AND SAFETY INSTRUCTIONS (ATEX DIRECTIVE 2014/34/EU)

Additional safety instructions for flame arresters and accessories being used in a potentially explosive atmosphere under ATEX 2014/34/EU.

#### REFERENCE

These are additional safety instructions to PED document number: **VCOSI-01174**.  
See also: Emerson.com

#### MARKING

To be strictly in accordance with the requirements of ATEX 2014/34/EU and includes:

- CE and Epsilon X (EX mark)
- Equipment Group II.
- Equipment Category (1, 2 or 3, as label).
- Type of explosive atmosphere, G.
- Notified Body Certificate number, where this is applicable.

#### SELECTION

- Ensure that the equipment is marked with the correct equipment group, category and type of atmosphere for the application and that the safety instructions are followed for each item of the equipment.
- In particular, all items in a flame arrester package, including all accessories, should be CE marked to ATEX in the appropriate and/or requested category.

#### INSTALLATION

- The installer must only use tooling appropriate to the working area, see EN 1127-1 Annex A.
- Installation has to be carried out at ambient temperature.
- During installation, ensure that no metallic shocks/impacts are made to the equipment or the adjacent pipework.
- Ensure that the equipment is earthed suitably, through the pipe or individually.
- The installer should follow the operating and safety instructions provided for each individual item of equipment thoroughly.
- When the flame arrester is to handle hot fluids or fluids where exothermic reactions may take place, the end user must take all the necessary measures to ensure that the hot surface of the flame arrester cannot provide a source of ignition to the surrounding gas, vapor, mist or dust atmosphere.

- Before putting into use or during operation with a dangerous fluid, ensure that no release of the fluid to atmosphere can take place.

#### MAINTENANCE

- The operator must ensure that only personnel qualified to work in a potentially hazardous area are allowed to carry out maintenance appropriate to the category of the equipment in use.
- The end user must ensure that only tooling appropriate to the working area is used, see EN 1127-1 Annex A.
- All equipment must only be fitted with the manufacturer's original spare parts.

#### TEMPERATURE LIMITS

The flame arrester is not heat generating; the temperature is a function of the process fluid.  
Temperature limits: see nameplate on flame arrester.

Temperature class	Maximum surface temperature
T1	450°C (842°F)
T2	300°C (572°F)
T3	200°C (392°F)
T4	135°C (275°F)
T5	100°C (212°F)
T6	85°C (185°F)

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