

# ANDERSON GREENWOOD WHESSOE MODELS 500A/500AE FLAME ARRESTERS

In-line deflagration flame arresters designed to prevent the propagation of subsonic flames.



#### **FEATURES**

- Concentric and eccentric model variants available.
- Fabricated construction.
- Replaceable elements.
- Advanced crimped stainless steel element construction as standard. Other materials available.
- Mounted vertically or horizontally.
- Bi-directional.
- Can be used in combination with a pressure/ vacuum valve.
- Independently tested and certified.
- Manufactured to ISO 9001:2015.

# **GENERAL APPLICATION**

The Types 500A/500AE are used in applications with subsonic flames and mounted in process or vent lines. They can be located in the pipeline or at the end of the pipe vent.

# **TECHNICAL DATA**

Materials: Sizes: Connections: Temperature range: Gas groups: Certification: Carbon steel, stainless steel DN 6 to 1000 (NPS  $\frac{1}{8}$  to 40) Threaded or flanged

-20 to 280°C (-4 to 536°F) IIA, IIB1, IIB2, IIB3, IIB, IIC<sup>[1]</sup> ATEX Directive 2014/34/EU; PED 2014/68/EU; ISO 16852

<sup>1.</sup> Up to and including DN 150 (6")

# ANDERSON GREENWOOD WHESSOE MODELS 500A/500AE FLAME ARRESTERS

## **MATERIALS AND CONNECTION OPTIONS**

#### Materials

Carbon steel and stainless steel.

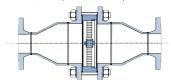
#### Connection pipe size

Threaded DN 6 to 80 (1/8" to 3")
Flanged DN 6 to 1000 (1/8" to 40")

## Gas groups

- ||A
- IIB1
- IIB2
- IIB3
- IIB
- IIC\*
- \* Only available up to and including DN 150 (6")

## TYPE 500A\* (DF VERSION)



\* Eccentric variants are available

#### TEMPERATURE RANGE

| Туре        | Gas group | Size range   | Short burn | Max. temperature     | Element                               |
|-------------|-----------|--------------|------------|----------------------|---------------------------------------|
| 500A        | IIB3      | DN 200 (8")  | No         | -20/260°C (-4/500°F) | 1 x 0.38 mm (0.039 x 0.015")          |
| 500A, 500AE | IIA       | DN 12 to 450 | Yes        | -20/60°C (-4/140°F)  | 1 x 0.8 mm (0.039 x 0.031")           |
| 500A, 500AE | IIB1/IIB3 | DN 12 to 450 | Yes        | -20/60°C (-4/140°F)  | 1 x 0.8/0.6 mm (0.039 x 0.031/0.024") |
| 500A, 500AE | IIA       | DN 12 to 450 | No         | -20/165°C (-4/329°F) | 1 x 0.6 mm (0.039 x 0.024")           |
| 500A, 500AE | IIB1/IIB3 | DN 12 to 450 | No         | -20/165°C (-4/329°F) | 1 x 0.38 mm (0.039 x 0.015")          |
| 500A, 500AE | IIB       | DN 12 to 450 | Yes        | -20/60°C (-4/140°F)  | 1 x 0.45 mm (0.039 x 0.018")          |
| 500A, 500AE | IIC       | DN 12 to 450 | Yes        | -20/60°C (-4/140°F)  | 1 x 0.15 mm (0.039 x 0.006")          |
| 500A, 500AE | IIB       | DN 12 to 450 | No         | -20/165°C (-4/329°F) | 1 x 0.3 mm (0.039 x 0.012")           |
| 500A, 500AE | IIC       | DN 12 to 450 | No         | -20/165°C (-4/329°F) | 1 x 0.15 mm (0.039 x 0.006")          |

## **SELECTION GUIDE**

|  | -+ | st. | zt. |
|--|----|-----|-----|

#### NOTES

All sizing and selection must be conducted by the factory.

Standard elements are double the pipe size.

Accessories, special materials and connections are available on request.

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