

## 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 9001:2008.

### GENERAL APPLICATION

The 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:	Carbon steel, stainless steel
Sizes:	DN 6 to 1000 (NPS 1/2 to 40)
Connections:	Threaded or flanged
Temperature range:	-20° to +280°C (-4° to +536°F)
Gas groups:	IIA, IIB1, IIB2, IIB3, IIB, IIC*
Certification:	ATEX Directive 94/9/EC; PED 97/23/EC; ISO 16852

\* Up to and including DN 150 (6")

# ANDERSON GREENWOOD WHESOE 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")

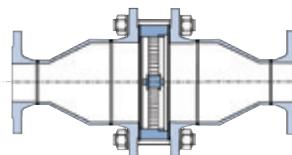
Flanged DN 6 to 1000 (1/8" to 40")

### Gas groups

- IIA
- IIB1
- IIB2
- IIB3
- IIB
- IIC\*

\* Only available up to and including DN 150 (6")

### 500A\* (DF VERSION)



\* Eccentric variants are available

## TEMPERATURE RANGE

Type	Gas group	Size range	Short burn	Max. temperature	Element
500A	IIB3	DN 200	No	-20/+260°C	1 x 0.38 mm
500A, 500AE	IIA	DN 12/450	Yes	-20/+60°C	1 x 0.8 mm
500A, 500AE	IIB1/IIB3	DN 12/450	Yes	-20/+60°C	1 x 0.8/0.6 mm
500A, 500AE	IIA	DN 12/450	No	-20/+165°C	1 x 0.6 mm
500A, 500AE	IIB1/IIB3	DN 12/450	No	-20/+165°C	1 x 0.38 mm
500A, 500AE	IIB	DN 12/400	Yes	-20/+60°C	1 x 0.45 mm
500A, 500AE	IIC	DN 12/150	Yes	-20/+60°C	1 x 0.15 mm
500A, 500AE	IIB	DN 12/400	No	-20/+165°C	1 x 0.3 mm
500A, 500AE	IIC	DN 12/500	No	-20/+165°C	1 x 0.15 mm

## SELECTION GUIDE

Example:	500A	50	DF	100	19	60	S3	S3
<b>Model</b>	500A							
<b>500A</b>								
<b>500AE</b>								
<b>Connection diameter, mm (in)</b>								
<b>Flanged</b>			<b>Threaded</b>					
DN 6 to 1000 (1/8" to 40")			DN 6 to 80 (1/8" to 3")					
<b>Element code</b>								
<b>DF</b>								
<b>Element diameter, DN (in)</b>								
DN 25 to 2000 (1" to 80")								
<b>Element width, mm (in)</b>								
<b>19</b> 19 mm (0.75")			<b>38</b> 0.38 mm (0.015")					
<b>38</b> 38 mm (1.5")			<b>15</b> 0.15 mm (0.006")					
<b>76</b> 76 mm (3.0")								
<b>Cell height, mm (in)</b>								
<b>80</b> 0.80 mm (0.032")								
<b>60</b> 0.60 mm (0.024")								
<b>45</b> 0.45 mm (0.018")								
<b>Element material</b>								
<b>S3</b> Stainless steel			<b>C</b> Carbon steel					
<b>Body material</b>								
<b>S3</b> Stainless steel			<b>C</b> Carbon steel					

### 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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