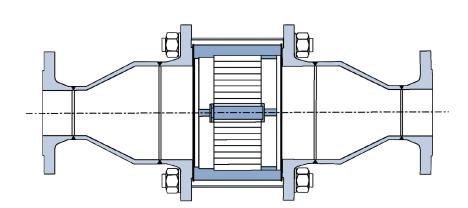


ANDERSON GREENWOOD WHESSOE MODELS 600A/600AE FLAME ARRESTERS

An in-line detonation flame arrester designed to prevent the propagation of supersonic flames.



FEATURES

- Concentric or eccentric model variants available.
- Fabricated construction.
- Replaceable elements.
- Advanced crimped stainless steel element construction as standard. Other materials available.
- Can be positioned anywhere within the pipeline.
- Bi-directional.
- Designed for unstable detonation.
- Independently tested and certified.
- Manufactured to ISO 9001:2015.

GENERAL APPLICATION

The Types 600A/600AE are used in applications with supersonic flames and mounted in process or vent lines. They are designed to handle both stable and unstable detonations.

TECHNICAL DATA

Materials: Sizes: Connections: Temperature range: Gas groups:

Certification:

Carbon steel, stainless steel DN 15 to 600 (½" to 24") Threaded or flanged

-20 to 165°C [-4 to 329°F] IIA, IIB1, IIB2, IIB3, IIB^[1], IIC^[1] ATEX Directive 2014/34/EU; PED 2014/68/EU

^{1.} Up to and including DN 150 (6")

ANDERSON GREENWOOD WHESSOE MODELS 600A/600AE FLAME ARRESTERS

STABLE AND UNSTABLE DETONATION

Detonations can be stable or unstable. A detonation is stable when it progresses through a confined system without significant variations of velocity and pressure characteristics. When a detonation is unstable, the velocity is not constant and the explosion pressure is significantly higher. This occurs in a limited zone during a combustion process from a deflagration into a stable detonation. The Types 600A/600AE are designed to handle both stable and unstable detonations.

MATERIALS AND CONNECTION OPTIONS

Materials

Carbon steel and stainless steel.

Connection pipe size

Threaded DN 15 to 80 (½" to 3") Flanged DN 15 to 600 (½" to 24")

NOTE

Accessories, special materials and connections are available on request.

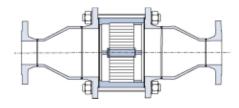
Gas groups

- ||A^[1]
- IIB1^[1]
- IIB2^[1]
- IIB3^[1]
- IIB^[2]
- IIC[2,3]

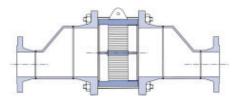
NOTES

- 1. Multiple element design on sizes DN 250 (10") and above
- 2. Only available up to and including DN 150 (6").
- 3. Multiple element design on DN 100 to 150 (4" to 6") sizes.

TYPE 600A (DT VERSION)



TYPE 600AE (DT VERSION)



TEMPERATURE RANGE

TEM ERATORE RANGE				
Gas group	Size range	Short burn	Max. temperature	Element
IIA	DN 12 to 200	Yes	-20/60°C (-4/140°F)	1 x 0.6/0.45 mm (0.039 x 0.024/0.018")
IIA	DN 250 to 450 (10" to 18")	Yes	-20/60°C (-4/140°F)	2 x 0.45 mm (0.079 x 0.018")
IIA	DN 12 to 200	No	-20/165°C (-4/329°F)	1 x 0.45 mm (0.039 x 0.018")
IIA	DN 250 to 450 (10" to 18")	No	-20/165°C (-4/329°F)	2 x 0.45 mm (0.079 x 0.018")
IIB1/IIB3	DN 12 to 150	Yes	-20/60°C (-4/140°F)	1 x 0.45/0.38 mm (0.039 x 0.018/0.015")
IIB1/IIB3	DN 200 to 400 (8" to 16")	Yes	-20/60°C (-4/140°F)	2 x 0.45/3 x 0.38 mm (0.079 x 0.018/0.12 x 0.015")
IIB1/IIB3	DN 12 to 150	No	-20/165°C (-4/329°F)	1 x 0.38 mm (0.039 x 0.015")
IIB1/IIB3	DN 200 to 400 (8" to 16")	No	-20/165°C (-4/329°F)	3 x 0.38 mm (0.12 x 0.015")
IIB	DN 12 to 150	Yes	-20/60°C (-4/140°F)	1 x 0.3 mm (0.039 x 0.012")
IIB	DN 12 to 400	No	-20/165°C (-4/329°F)	1 x 0.3 mm (0.039 x 0.012")
IIC	DN 12 to 150	Yes	-20/60°C (-4/140°F)	1 x 0.15/2 x 0.15 mm (0.039 x 0.006/0.079 x 0.006")
IIC	DN 100 (4")	No	-20/165°C (-4/329°F)	2 x 0.15 mm (0.079 x 0.006")
IIC.	DN 12 to 500	No	-20/165°C (-4/329°E)	1 x 0 15 mm (0 039 x 0 006")

NOTES

All sizing and selection must be conducted by the factory. Standard elements are double the pipe size.

ANDERSON GREENWOOD WHESSOE MODELS 600A/600AE FLAME ARRESTERS

SELECTION GUIDE 600A DT 100 76 45 **S**3 **S**3 Example: Model 600A 600AE Connection diameter Threaded DN 15 to 80 (1/2" to 3") Flanged DN 15 to 600 (1/2" to 24") Element code DT Element diameter DN 25 to 2000 (1" to 80") Element width **76** 76 mm (3.0") **114** 114 mm (4.5") **152** 152 mm (6.0") **190** 190 mm (7.5") Cell height **60** 0.60 mm (0.024") **45** 0.45 mm (0.018") **38** 0.38 mm (0.015") **30** 0.30 mm (0.012") **15** 0.15 mm (0.006") Element material **S3** Stainless steel C Carbon steel Body material **S3** Stainless steel **C** Carbon steel

/CTDS-02495-EN © 2017, 2023 Emerson Electric Co. All rights reserved 09/23. Anderson Greenwood is a mark owned by one of the companies in the Emerson Automation Solutions business unit of Emerson Electric Co. The Emerson logo is a trademark and service mark of Emerson Electric Co. All other marks are property of their respective owners.
The contents of this publication are presented for informational purposes only, and while effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.
Emerson Electric Co. does not assume responsibility for the selection, use or maintenance of any product. Responsibility for proper selection, use and maintenance of any Emerson Electric Co. product remains solely with the purchaser.
Emerson.com