

ANDERSON GREENWOOD AMAL IRQ/IRQE/IRQS 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 IRQ/IRQE/IRQS 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 1/8 to 40) Threaded or flanged

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

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

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MATERIALS AND CONNECTION OPTIONS • IIA Materials Carbon steel and stainless steel. • IIB1 • IIB2 • IIB3 Connection pipe size Threaded DN 6 to 80 [⅓" to 3"] Flanged DN 6 to 1000 [⅓" to 40"]

TYPE IRQ^[2] (DF VERSION)

TEMPERATURE RANGE

TEM ENATURE NATURE											
Туре	Gas group	Size range Short burn Max. temperature		Max. temperature	Element						
IRQ	IIB3	DN 200 (8")	No	-20/260°C (-4/500°F)	1 x 0.38 mm (0.039 x 0.015")						
IRQ, IRQE, IRQS	IIA	DN 12 to 450	Yes	-20/60°C (-4/140°F)	1 x 0.8 mm (0.039 x 0.031")						
IRQ, IRQE, IRQS	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")						
IRQ, IRQE, IRQS	IIA	DN 12 to 450	No	-20/165°C (-4/329°F)	1 x 0.6 mm (0.039 x 0.024")						
IRQ, IRQE, IRQS	IIB1/IIB3	DN 12 to 450	No	-20/165°C (-4/329°F)	1 x 0.38 mm (0.039 x 0.015")						
IRQ, IRQE, IRQS	IIB	DN 12 to 400	Yes	-20/60°C (-4/140°F)	1 x 0.45 mm (0.039 x 0.018")						
IRQ, IRQE, IRQS	IIC	DN 12 to 150	Yes	-20/60°C (-4/140°F)	1 x 0.15 mm (0.039 x 0.006")						
IRQ, IRQE, IRQS	IIB	DN 12 to 400	No	-20/165°C (-4/329°F)	1 x 0.3 mm (0.039 x 0.012")						
IRQ. IRQE. IRQS	IIC	DN 12 to 500	No	-20/165°C (-4/329°F)	1 x 0 15 mm (0 039 x 0 006")						

SELECTION GUIDE

Example:		IRQ	50	DF	100	19	60	S3	S 3
Model									
IRQ									
IRQE									
IRQS									
Connection diameter									
Flanged	Th	readed							
DN 6 to 1000 (1/8" to 40")	DN	6 to 80 (1/8" to 3")							
Element code									
DF									
Element diameter									
DN 25 to 2000 (1" to 80")									
Element width									
19 19 mm (0.75")									
38 38 mm (1.5")									
76 76 mm (3.0")									
Cell height									
80 0.80 mm (0.032")	38	0.38 mm (0.015")							
60 0.60 mm (0.024")	15	0.15 mm (0.006")							
45 0.45 mm (0.018")									
Element material									
S3 Stainless steel	С	Carbon steel							
Body material									
S3 Stainless steel	С	Carbon steel							

NOTES

All sizing and selection must be conducted by the factory.

Standard elements are double the pipe size.

- 1. Only available up to and including DN 150 (6")
- 2. Eccentric variants are available

Accessories, special materials and connections are available on request.