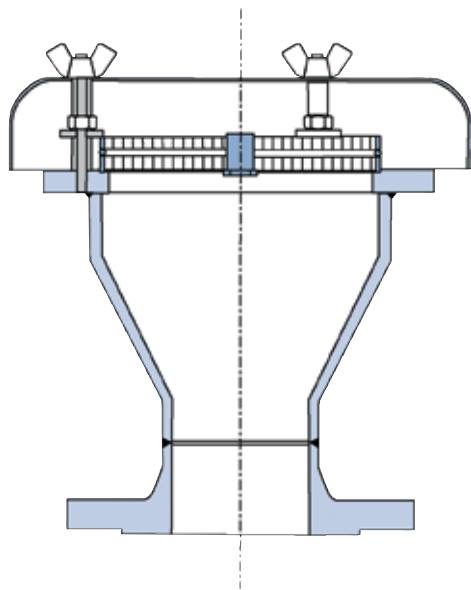


## ANDERSON GREENWOOD AMAL ERQ/ERQS FLAME ARRESTERS

End-of-line deflagration flame arresters designed to prevent the propagation of a flame



### FEATURES

- Fabricated construction.
- Replaceable element.
- Advanced crimped stainless steel element construction as standard. Other materials available.
- Independently tested and certified.
- Manufactured to ISO 9001:2008.

### GENERAL APPLICATION

ERQ and ERQS are end-of-line flame arresters which are mounted on tanks or on the end of discharge pipes to stop flames entering the process. They allow short burning only.

### TECHNICAL DATA

|                    |                                 |
|--------------------|---------------------------------|
| Materials:         | Carbon steel, stainless steel   |
| Sizes:             | DN 15 to 600 (½" to 24")        |
| Connections:       | Threaded or flanged             |
| Temperature range: | -20° to 60°C<br>(-4° to 140°F)* |
| Gas groups:        | IIA, IIB1, IIB2, IIB3, IIB, IIC |
| Certification:     | ATEX Directive 94/9/EC          |

\* Higher temperatures for certain gas groups.

# ANDERSON GREENWOOD AMAL ERQ/ERQS FLAME ARRESTERS

## MATERIALS AND CONNECTION OPTIONS

### Materials

Carbon steel and stainless steel.

### Connection pipe size

Threaded DN 15 to 50 (½" to 2")

Flanged DN 15 to 600 (½" to 24")

### Gas groups

- IIA
- IIB1
- IIB2
- IIB3
- IIB
- IIC

### NOTE

Accessories, special materials and connections are available on request.

## HIGH TEMPERATURE (+200°C (+392°F)) APPLICATIONS

| Explosion group | Gap width        | Inlet size             |
|-----------------|------------------|------------------------|
| IIB1 (IIA)      | 0.8 mm (0.032")  | DN 15 - 600 (½" - 24") |
| IIB             | 0.45 mm (0.018") | DN 15 - 600 (½" - 24") |
| IIB2, IIB3      | 0.6 mm (0.024")  | DN 15 - 300 (½" - 12") |
| IIC             | 0.3 mm (0.012")  | DN 15 - 300 (½" - 12") |

## SELECTION GUIDE

| Example:                                      | ERQ       | 50               | EC | 100 | 19 | 80 | S3 | S3 |
|---|-----------|------------------|----|-----|----|----|----|----|
| <b>Model</b>                                  |           |                  |    |     |    |    |    |    |
| <b>ERQ</b>                                    |           |                  |    |     |    |    |    |    |
| <b>ERQS</b>                                   |           |                  |    |     |    |    |    |    |
| <b>Connection diameter, mm (in)</b>           |           |                  |    |     |    |    |    |    |
| <b>Threaded</b>                               |           |                  |    |     |    |    |    |    |
| DN 15 to 50 (½" to 2")                        |           |                  |    |     |    |    |    |    |
| <b>Flanged</b>                                |           |                  |    |     |    |    |    |    |
| DN 15 to 600 (½" to 24")                      |           |                  |    |     |    |    |    |    |
| <b>Element code</b>                           |           |                  |    |     |    |    |    |    |
| <b>EC</b>                                     |           |                  |    |     |    |    |    |    |
| <b>Element diameter, mm (in)</b>              |           |                  |    |     |    |    |    |    |
| DN 50 to 100 (2" to 4") - threaded connection |           |                  |    |     |    |    |    |    |
| DN 50 to 800 (1" to 32") - flanged connection |           |                  |    |     |    |    |    |    |
| <b>Element width, mm (in)</b>                 |           |                  |    |     |    |    |    |    |
| <b>19</b> 19 mm (0.75")                       |           |                  |    |     |    |    |    |    |
| <b>Cell height, mm (in)</b>                   |           |                  |    |     |    |    |    |    |
| <b>80</b> 0.80 mm (0.032")                    | <b>45</b> | 0.45 mm (0.018") |    |     |    |    |    |    |
| <b>60</b> 0.60 mm (0.024")                    | <b>15</b> | 0.15 mm (0.006") |    |     |    |    |    |    |
| <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.

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ERQ (EC VERSION)

