

Flashback Arrestors

Model FR1000

For connecting to a pressure regulator or an outlet point .

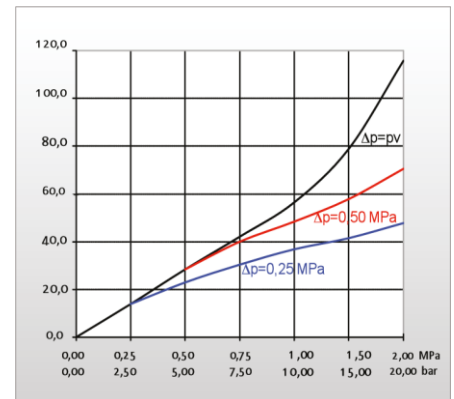
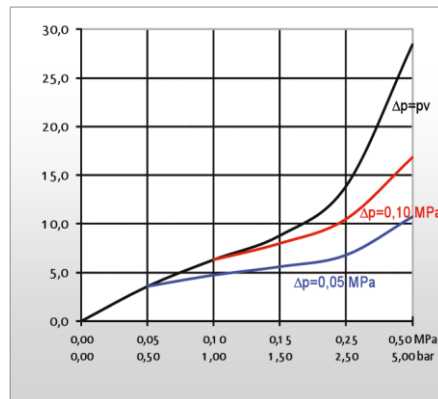
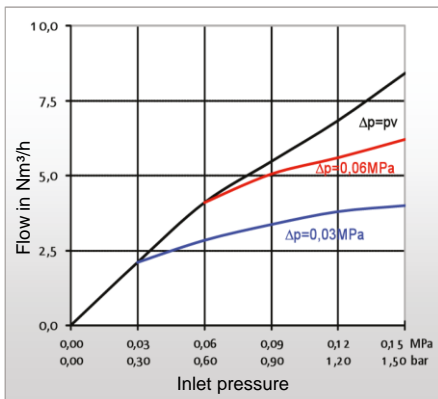
The ESAB FR1000 is a state of the art, multi-functional flashback arrestor. Models suitable for oxygen, acetylene, propane and hydrogen are available as standard. In the event of a flashback the mechanism automatically cuts off the incoming gas thereby rendering the whole system safe. Simply lift to reset.

Safety elements

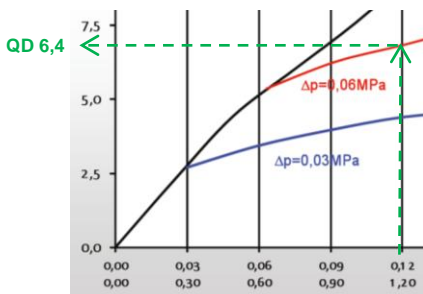
- Dust filter
- Angled outlet connection – safe hose fall angle
- Gas non-return valve NV
- Flame arrestor FA
- Thermal cut-off valve TV
- Pressure sensitive gas cut-off valve PV



Certification:



Example:



$$QG = QD \times F$$

$$QG \blacktriangleright A = 6,4 \times 1,2 = 7,8 \text{ m}^3/\text{h C}_2\text{H}_2$$

Flow rates:

pv = Primary pressure

ph = Secondary pressure

Δ p = Primary pressure minus Secondary pressure

Conversion Factors:

0.1 MPa = 1 bar = 100 kpa = 14,504 psi 1 m³/h = 35.31 cu ft

QG = flow/gas type, F = conversion factor, QD = flow/air

| | A | H | P | M | M | O |
|----|-------------------------------|----------------|-------------------------------|--------------------|-----------------|----------------|
| QG | C ₂ H ₂ | H ₂ | C ₃ H ₈ | CH ₄ +C | CH ₄ | O ₂ |
| F | 1,2 | 2,5 | 0,90 | 1,25 | 1,4 | 0,95 |

Technical data

| Gas types | Acetylene (A) | Hydrogen (H) | Industrial Gas (C) Ethylene (E) Natural Gas (M) Compressed Air (D) (Methane) Propane (P) | Compressed Air (D) Oxygen (O) |
|--------------------------------------|---------------------|----------------------|---|----------------------------------|
| Working Pressure | 0.15 Mpa 1.5 bar | 0.35 Mpa 3.5 bar | 0.50 Mpa 5.0 bar | 2.0 Mpa 20 bar |
| Threads EN 560 ISO 3253 | G 3/8 LH | G 3/8 LH | G 3/8 LH | G 3/8 RH |
| Measure and weight | | Diameter: 39.00mm | Length: 127.00mm | Weight: 364.00g |

FR1000 fuel models are suitable for the following gas service

Acetylene (A)
Propane (P)
Ethylene (E)
Hydrogen (H)
Methane (M)
Town Gas (C)

Applications

Process

| | | |
|-----------------------|------------------------|------------------------|
| Welding up to 30mm | Cutting up to 200mm | Heating up to 100mm |
|-----------------------|------------------------|------------------------|

Ordering information

| Thread | Gas Type | Part No |
|----------|----------|------------|
| G 3/8 RH | Oxygen | 0700016550 |
| G 3/8 LH | Fuel | 0700016551 |

Maintenance

In accordance with the requirements of the British Compressed Gases Association Code of Practice 7 – *Flashback* arrestors should have all threads examined for damage or contaminants as well as the joints being tested at working pressure for leak tightness. They should also be tested annually to ensure they are still operating as designed by checking for leak tightness, non return and flow cut off function. Code of Practice 7 “Guidance on Maintenance” recommends that Flashback Arrestors are replaced after 5 years in service.

Quality accessories for the quality welder

ESAB offers a wide range of accessories. The complete range, along with product information, is available at our local web-sites, look at www.esab.com or contact your local ESAB dealer.

Unrivalled service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to none. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software.

The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

Spare and wear parts are manufactured according to ESAB's quality plan. Exchange Printed Circuit Board (PCB), exchange modules and components are available for all our products in order to reduce downtime to an absolute minimum. ESAB is continuously upgrading authorised service partners for local service support. Customers who have their own service and maintenance personnel will always be offered a service-training package as part of a total ESAB offering. However, product and process training for end-users will form an additional part of the ESAB offering. Always ask your ESAB sales representative or distributor for a complete ESAB solution.

ESAB

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