

Flashback Arrestors

Model FRT

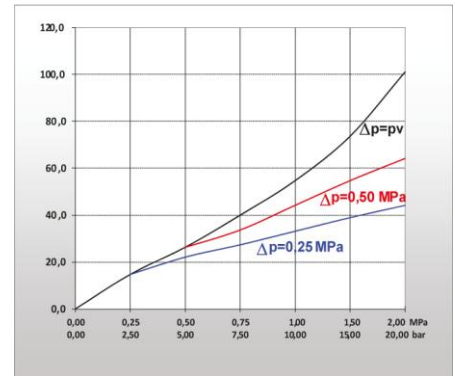
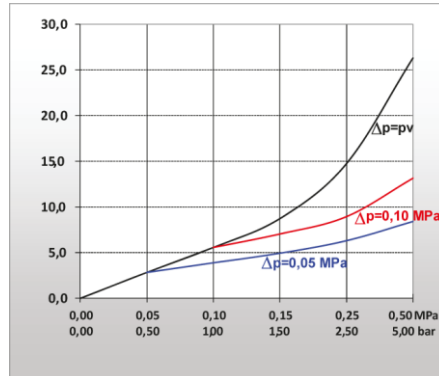
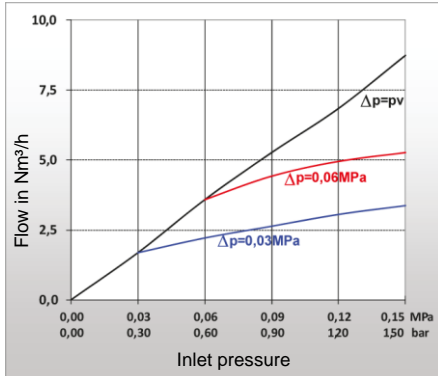
For connecting to a pressure regulator or an outlet point

The ESAB cylindrical flashback arrestors, are of advanced design giving a higher flow rate. The FRT model is designed to be connected to the regulator or outlet point. The model is equipped with a large cylindrical flame arresting element, an automatic reset non-return valve and a heat sensitive thermal cut-off.

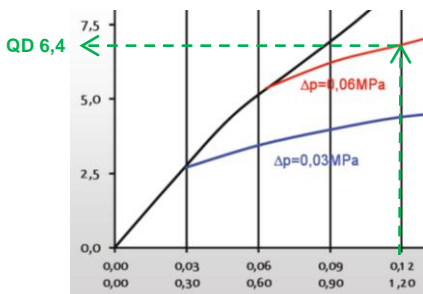
Safety elements

- Gas non-return valve NV
- Flame arrestor FA
- Thermal cut-off valve TV

Certification:



Example:



$$QG = QD \times F$$

$$QG \blacktriangleright A = 6,4 \times 1,2 = 7,68 \text{ m}^3/\text{h C}_2\text{H}_2$$

Flow rates:

pv = Primary pressure

ph = Secondary pressure

Δp = 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 \blacktriangleright	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 15 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: 22.00mm	Length: 83.00mm	Weight: 152.00g

All fuel gas models are suitable for the following gas service

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

Applications

Welding up to 30mm	Cutting up to 200mm	Heating up to 100mm
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Ordering information

Thread	Gas Type	Part No
G 3/8 RH	Oxygen	0700016554
G 3/8 LH	Fuel	0700016555

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.



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