

Flashback Arrestors

Model: FRT

For protection of single cylinder and tapping points

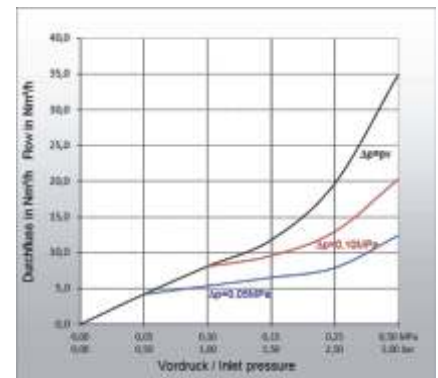
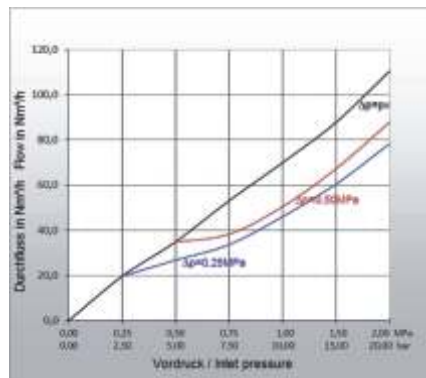
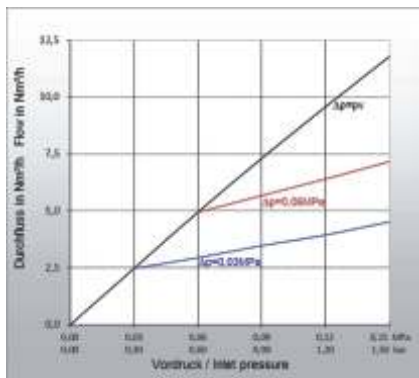
The ESAB cylindrical flashback arrestors, are of advanced design giving a higher flow rate. The FRT model is designed to be connected to the regulator or tapping point, model is equipped with a large cylindrical flame arresting element, an automatic reset non-return valve and a heat sensitive thermal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

Certification:

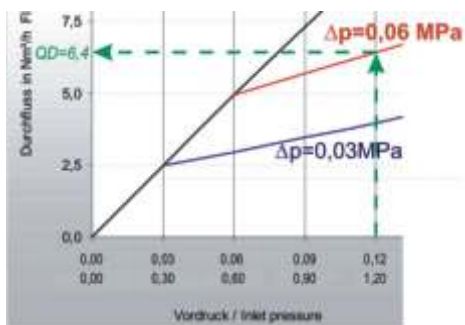


Safety elements:

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



Example:



$$QG = QD \times F$$

$$QG \blacktriangleright A = 6,4 \times 1,2 = 7,68 \text{ m}^3/\text{h } C_2H_2$$

Flow rates:

- pv = Primary pressure
- ph = Secondary pressure
- Δp = Primary pressure minus Secondary pressure

Conversion Factors:

$$0.1 \text{ MPa} = 1 \text{ bar} = 100 \text{ kpa} = 14,504 \text{ psi} \quad 1 \text{ m}^3/\text{h} = 35.31 \text{ cu ft}$$

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

Flashback Arrestors

Model: FRT

Technical Data:				
Gas types:	Acetylene (A)	Hydrogen (H)	Industrial Gas (C) Ethylene (E) Natural Gas (M) (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	1.5 MPa 15 bar
Threads: EN 560 ISO 3253	G 3/8 LH M16x1,5 LH UNF 9/16-18LH UNF 5/8-18LH	G 3/8 LH M16x1,5 LH UNF 9/16-18LH UNF 5/8-18LH	G 3/8 LH M16x1,5 LH UNF 9/16-18LH UNF 5/8-18LH	G 1/4 RH G 3/8 RH M16x1,5 RH UNF 9/16-18RH UNF 5/8-18RH
Measure and weight:		Diameter: 22.00mm	Length: 83.00mm	Weight: 152.00g

Applications:			
Process:	Welding: up to 30mm	Cutting: up to 200mm	Heating: up to 100mm

Models available:

Part No:	Gas Type	Thread
1300100373	Oxygen	G 3/8 RH
1300100372	Fuel	G 3/8 LH

All fuel gas models are suitable for the following.

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

Maintenance:

The safety devices have to be tested by a qualified and authorized person at regular intervals according to country specific regulations. They have to be tested for gas tightness and gas return at least once a year.



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