

## Flashback arrestor



### Product features

- Safety device according to DIN EN ISO 5175-1.
- Avoids dangerous gas mixtures by a gas non-return valve (NV).
- Stops flashback through flame arrestor (FA).
- A dust filter protects the gas non-return valve against contamination.
- All metal components in brass 2,0401 / spring 1,4310.

Every safety device is 100% tested.

### Safety elements of the GasiQ flashback arrestor:

- NV, Gas non-return valve.
- FA, Flame arrestor.

### Additional features:

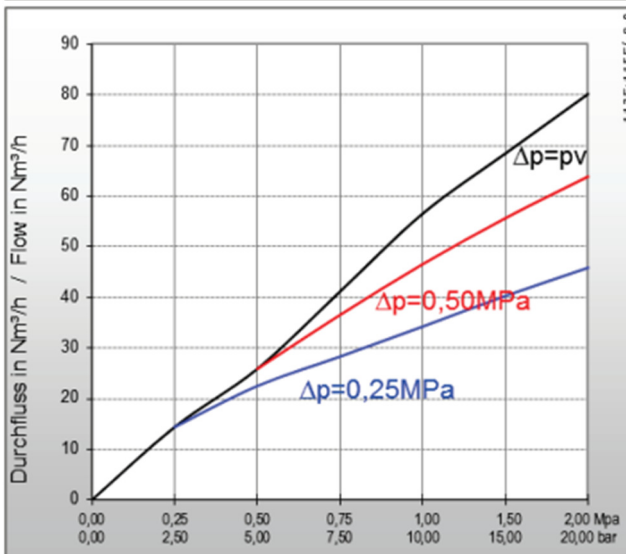
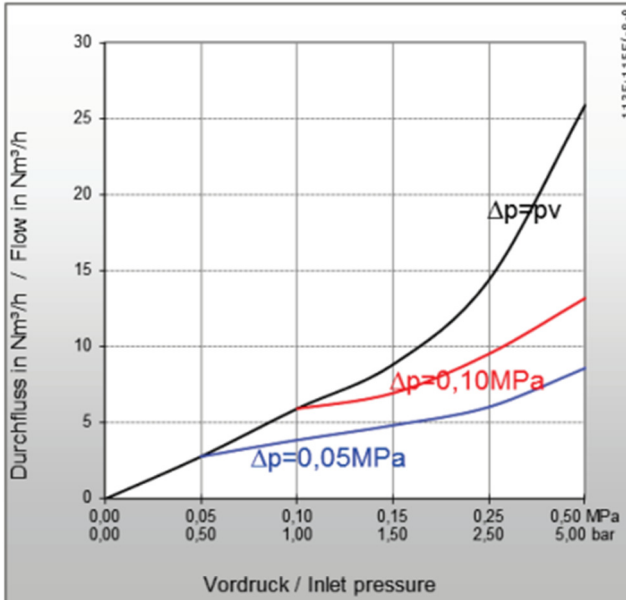
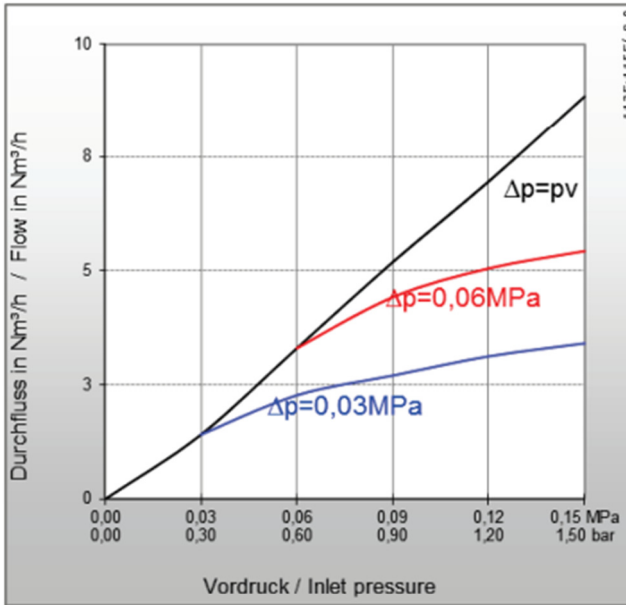
- DF, Dust filter

### Maintenance:

The safety devices are to be tested by a qualified and authorised person at regular intervals according to country specific regulations. The safety device is to be tested for gas tightness, gas flow and gas return every 24 months.

We would be pleased to offer you the flashback arrestor testing unit-**Flashback arrestor testing equipment nordic.**

## Flowchart



### Flow rates [air]:

$p_v$  = Primary pressure

$p_h$  = Secondary pressure

$\Delta p$  = Primary pressure minus Secondary pressure

### Conversion Factors:

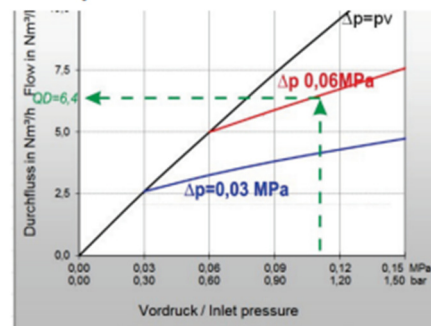
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

1 m³/h = 35,31 cu ft/h

	A	H	P	M	M	O	E	L
QG ▶	C <sub>2</sub> H <sub>2</sub>	H <sub>2</sub>	C <sub>3</sub> H <sub>8</sub>	CH <sub>4</sub> +C	CH <sub>4</sub>	O <sub>2</sub>	C <sub>2</sub> H <sub>4</sub>	C <sub>3</sub> H <sub>6</sub>
F	1,2	3,8*	0,90	1,25	1,4	0,95	1,02	0,92

\* Conversion factor 2.5 for devices comprising a flame arrester  
The conversion factor for free flow is 3.8.  
(Reference: BAM report 220, D. Lietze)

### Example:



$$QG = QD \times F$$

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

QG = flow / gas type

F = conversion factor

QD = flow / air

### Technical data

Gas	Acetylene	Propane	Oxygen
Working pressure	0,15MPa 1,5 bar	0,40 MPa 4,0 bar	2,0 MPa 20 bar
Cracking pressure	50-70 mbar position independent		
Gas temperatur	-20°C up to +70°C (Oxygen -20°C up to +60°C)		
Ambient temperature	-20°C up to +70°C		
Hose-pin	5,0 mm/ 6,0mm/ 8,0mm/ 10mm		
Thread connection	G3/8"LH G1/4"LH 9/16"LH		G3/8"RH G1/4"RH 9/16"RH
Measure & weight	Diameter	Length	Weight
	21,0 mm	73,0 mm	86,0 g
Applications			
Process	Welding	Cutting	Heating
	Upp till 30 mm	Upp till 700 mm	> 100 mm