

## 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:

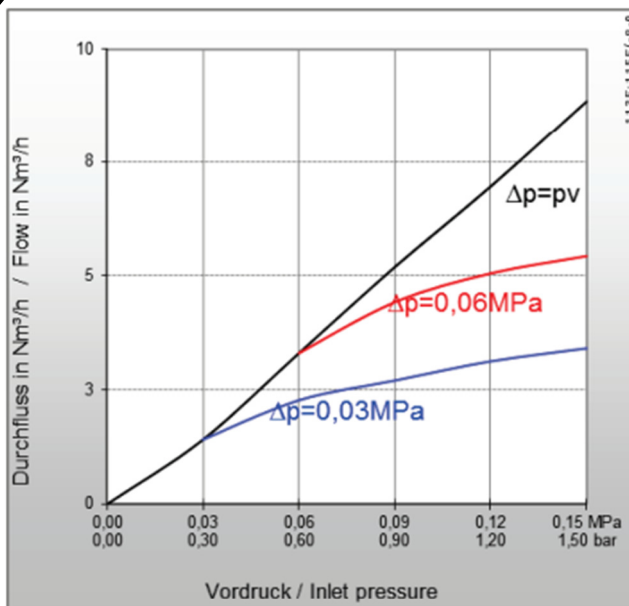
- DF, Dust filter

### 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:

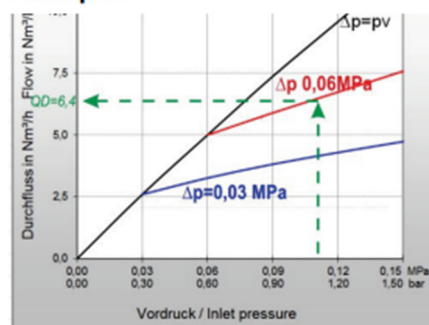
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

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 arrestor  
The conversion factor for free flow is 3.8.  
(Reference: BAM report 220, D. Lietze)

### Example:



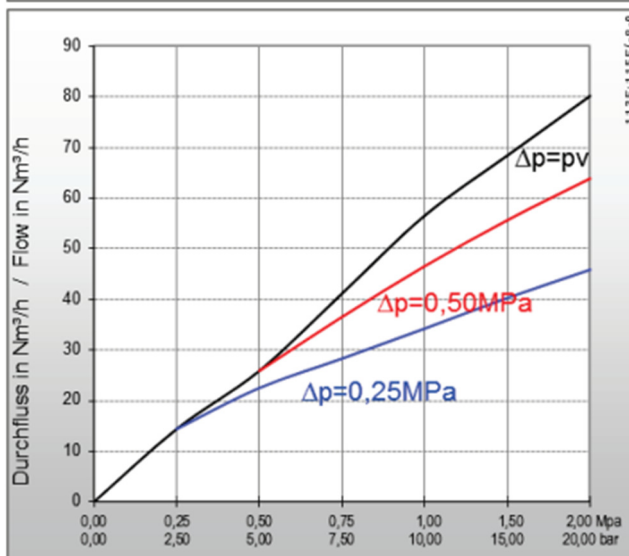
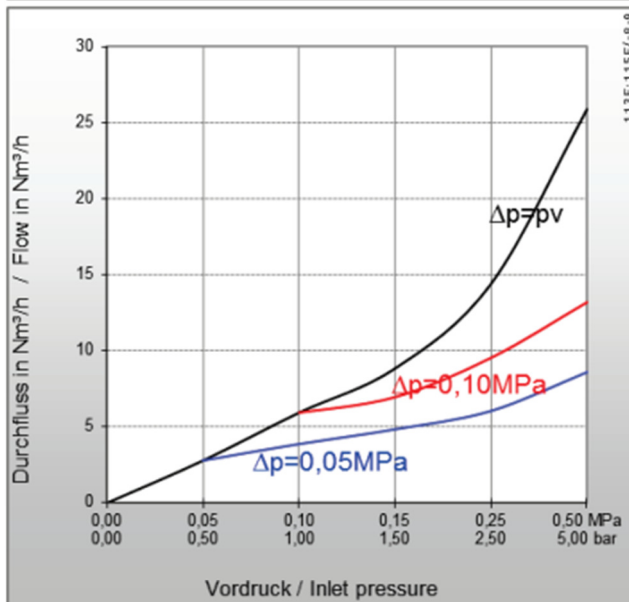
$$QG = QD \times F$$

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

QG = flow / gas type

F = conversion factor

QD = flow / air



## Technical data

Gas type	Acetylene (A)		Propane (P)	Oxygen (O)	
Working pressure	0,15 MPa, 1,5 bar		0,40 MPa, 4,0 bar	2,0 MPa, 20 bar	
Cracking pressure	50-70 mbar position-independent				
Gas temperature	-20°C up to +70°C (Oxygen –20°C up to 60°C)				
Ambient temperature	-20°C up to +70°C				
Connection-hose pin	5,0 mm/ 6,0mm/ 8,0 mm/ 10 mm				
Threads	G3/8"LH			G3/8"RH	
EN 560	G1/4"LH			G1/4"RH	
ISO / TTR 28821	9/16"LH			9/16"RH	
Measure and weight	Diameter		Lenght		Weight
	21,0 mm		73,0 mm		86,0 mm
Applications					
Process	Welding		Cutting		Heating
	Up to 30 mm		Up to 200 mm		Up to 30 mm