

Therm-X



Product features

- Stops flashback through flame arrestor (FA)
- A temperature-sensitive cut-off valve stops the gas flow when a predetermined temperature is exceeded (TV)
- Every safety device is 100% tested

Safety elements of the GasiQ Therm-X:

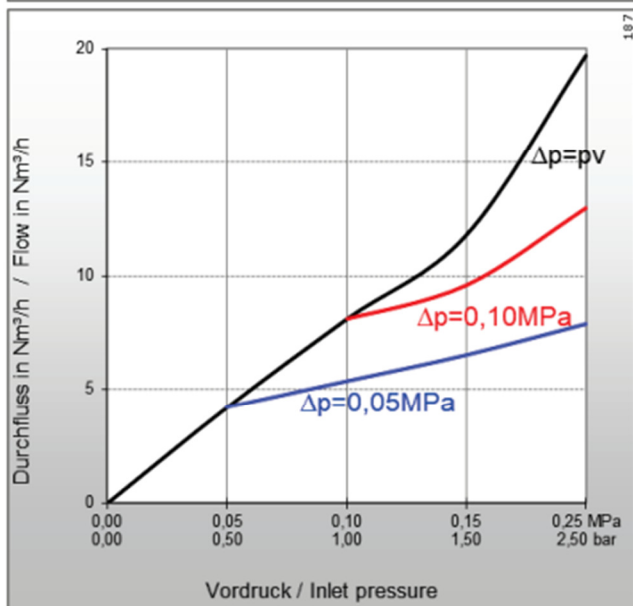
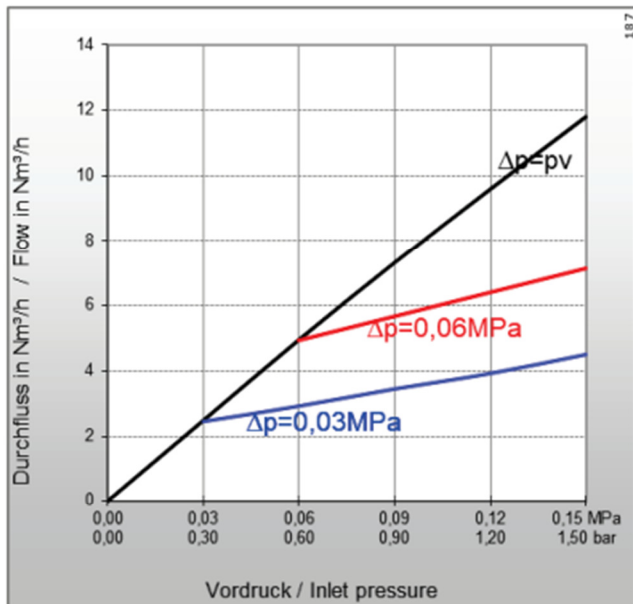
- FA, Flame arrestor
- TV, Temperature-sensitive cut-off valve

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 at least once every 24 months.

It is not allowed to open the safety device.

Flow chart



Type: Therm-X

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

Δp = Primary pressure minus Secondary pressure

Conversion Factors:

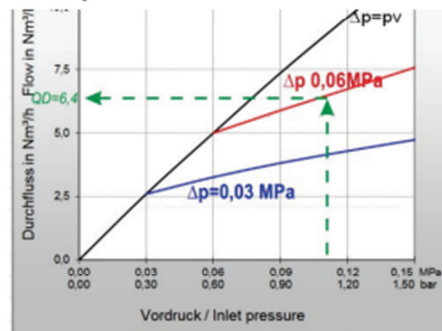
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

1 m³/h = 35,31 cu ft/h

	A	H	P	M	M	O	E	L
QG ►	C ₂ H ₂	H ₂	C ₃ H ₈	CH ₄ +C	CH ₄	O ₂	C ₂ H ₄	C ₃ H ₆
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 ► A = 6,4 x 1,2 = 7,68 m³/h C₂H₂

QG = flow / gas type

F = conversion factor

QD = flow / air

Technical data

Gas	Oxygen-Acetylene		
Working pressure	0,20 (0,03)* MPa / 20,0 (0,3)* bar		
Gas temperature	-20°C up to +50°C		
Ambient temperature	-20°C up to +50°C		
Threads ISO / TR 28821	G1/4" G3/8" G3/8L		
Measure and weight	Diameter	Length	Weight
	22,0 mm	87,0 mm	153 g
Application			
Process	Gas production by electrolysis e.g micro soldering and welding		