Safety Device according to EN 730-1, ISO 5175, AS 4603, TRAC 207

Safety device with multiple function: SIMAX8N

Type SIMAX8N for protection of Tapping Points, Distribution Lines and Gas Manifold Systems

The safety device SIMAX8N according to EN 730-1, ISO 5175:

- avoids dangerous gas mixtures by a gas non-return valve (NV)
- stops flashback through flame arrestor (FA)
- a temperature-sensitive cut-off valve stops the gas flow when a predetermined temperature is exceeded (TV)
- a dust filter protects the gas non-return valve against contamination
- every safety device is 100% tested
- all metal components in brass 2.0401 / Spring 1.4310

Safety elements of the IBEDA Safety device SIMAX8N:

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

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 at least once a year.

We would be pleased to offer you the flashback arrestor testing unit model PVGD.

The safety device SIMAX8N can be repaired by a qualified and authorized person. The single flashback arrestor units contained in this safety device can be replaced, but they must not be opened.

Technical Data:										
Gas types:	Acetylene (A)	Hydrogen Industrial gas	(H) 5 (C)	Natural Gas (Methane) Propane	(M) (P)	Oxygen	(O)	Compressed Air	(D)	
Working pressure:	0,15 MPa 15,0 bar			0,50 MPa 5,0 bar		2,5 MPa 25 bar		2,5 MPa 25 bar		
Cracking pressure:	10 mbar position-independent									
Ambient temperature:	-20°C up to +70°C									
Threads: EN 560, ISO / TR 28821	G1RH F ³⁾					G1RH F ³⁾				
Measure and weight:	diameter:		length:				weight:			
	122,0 mm		174,0 mm				837590,0 g			
Applications:										
Process:	welding		cutting				heating			
	up to 30 n	> 700 mm				> 100 mm				

Other materials, surface finishing, gas types and additional connections available on request.

The working pressures approved by the UL are different to what is stated above.

Further information in this regard can be provided on request

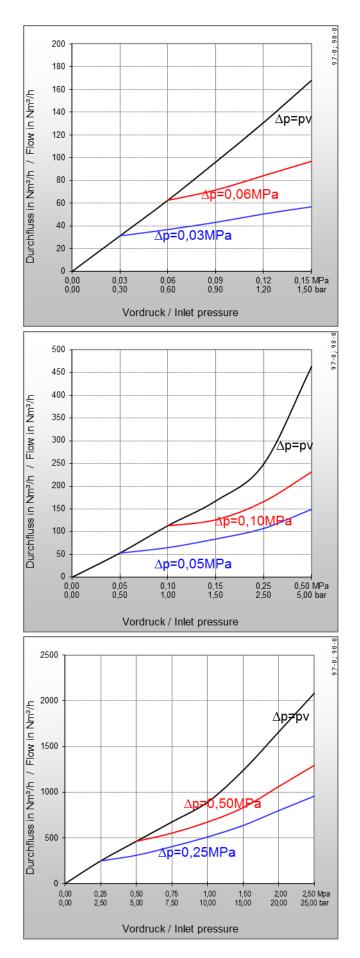
³⁾ F = Female, M = Male



EN/01/17/00







Type: SIMAX8N

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

∆p = Primary pressure minus Secondary pressure

Conversion Factors:

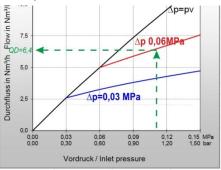
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

 $1 \text{ m}^{3}/\text{h} = 35,31 \text{ cu ft/h}$

	А	Н	Р	М	М	0	Е	L
QG ►	C_2H_2	H_2	C_3H_8	CH_4+C	CH_4	O ₂	C_2H_4	C_3H_6
F	1,2	3,8*	0,90	1,25	1,4	0,95	1,02	0,92

¹ 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 x F

QG ► A = 6,4 x 1,2 = 7,68 m³/h C₂H₂

QG = flow / gas typeF = conversion factor

QD = flow / air

Certification / Technical Standards / Rules

BAM Federal Institute for Materials Research and Testing, UL Underwriters Laboratories Inc., TRAC Technical regulations for acetylene and calcium carbide systems, DGUV employer's liability insurance association rules and regulations, DVS German Association for Welding, Cutting and Allied Processes

Standards/ Approvals

Company certified according to ISO 9001:2008 and ISO 14001:2004, CE-marking according to: Pressure Equipment Directive 2014/68/EU

(Subject to change without notice)

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