Safety device with multiple function: DG91NH 0,5

Type DG91NH 0,5 for connecting at cylinder regulators and tapping points

The safety device DG91NH 03,5 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 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 safety device DG91NH 0,5:

- 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.

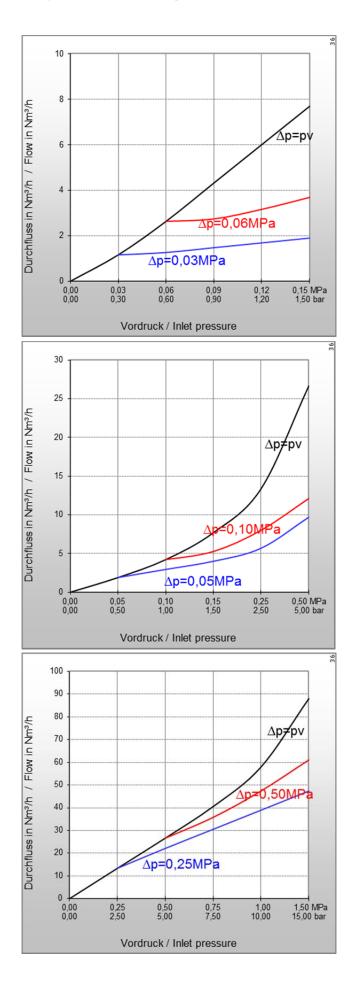
It is not allowed to open the safety devices.

Technical Data:											
Gas-Types:	Acetylene (A)	Hydrogen Industrial Gas	(H) (C)	Natural Gas (M) (Methane), Propane (P)							
Working pressure:	0,25 MPa 2,5 bar	1,0 MPa 10,0 bar		1,0 MPa 10,0 bar							
Cracking pressure:	10 mbar position-independent										
Ambient temperature:	-20°C up to +70°C										
Threads: EN 560 ISO / TR 28821	1/4NPT M/ F ³⁾			1/4NPT M/ F ³⁾							
Measure and weight:	diameter:	length:		weight:							
	32,0 mm	107,0 mm		393,0 g							
Applications:											
Process:	welding	cutting		heating							
	up to 30 mm	up to 700 mm		> 100 mm							

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

³⁾ F = Innengewinde, M = Außengewinde





Type: **DG91NH 0,5**

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

 Δp = Primary pressure minus Secondary pressure

Conversion Factors:

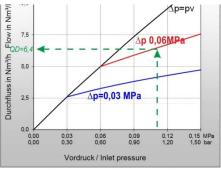
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

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

	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

^t 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 type

F = conversion factor QD = flow / air

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(Subject to alteration without prior notice)