

Safety device with multiple function: DG91NH 0,5 VA

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

The safety device DG91NH 0,5 VA 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 stainless steel 1.4305 / spring 1.4310

Safety elements of the safety device DG91NH 0,5 VA:

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

Additional features:

DF Dust filter

Maintenance:

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.

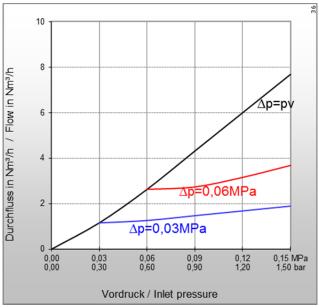
Technical Data:										
Gas-Types:	Acetylene (A)	Hydrogen (H) Industrial Gas (C)	Natural Gas (M) (Methane), Propane (P)							
Working pressure:	0,25 MPa 2,5 bar	1,0 MPa 10,0 bar	1,0 MPa 10,0 bar							
Cracking pressure:	10 mbar position-independent									
Ambient temperature:	-20°C up to +70°C									
Threads: ANSI/ASME B1.20.1	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							

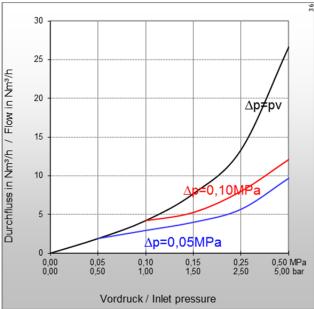
Other materials, surface finishing, gas types and additional connections available on request.

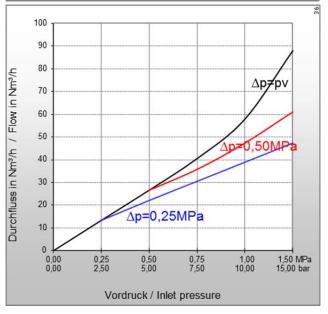


³⁾ F = Female, M = Male









Type: DG91NH 0,5 VA

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

 Δp = Primary pressure minus Secondary pressure

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Conversion Factors:

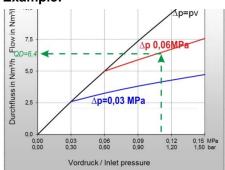
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

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

	Α	Н	Р	М	М	0	Е	L
QG ▶	C ₂ H 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

 ^{*} 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 \triangleright A = 6,4 x 1,2 = 7,68 m³/h C₂H₂

QG = flow / gas type

F = conversion factor

QD = flow / air

For further information please contact:

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(Subject to alteration without prior notice)