

Safety device with multiple function: DEMAX5N

Type DEMAX5N for connecting at cylinder regulators and tapping points

The safety device DEMAX5N 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 DEMAX5N:

- NV Gas non-return valve
- FΑ 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 DEMAX5N 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)	Natural Gas (Methane) Propane	(M) (P)	Oxygen	(O)	Compressed Air	(D)	
Working pressure:	0,15 MPa 1,5 bar	0,30 MPa 3,0 bar	1	0,50 MPa 5,0 bar		2,5 MPa 25 bar	2,5 MPa 2,5 MP 25 bar 25 bar			
Cracking pressure:	50 to 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									
Threads: EN 560 ISO/TR 28821			G1RH G1RH-F ³⁾							
Measure and weight:	diameter: length: weight:				weight:					
	64,0 mm			111,0 mm			1269,0 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.										

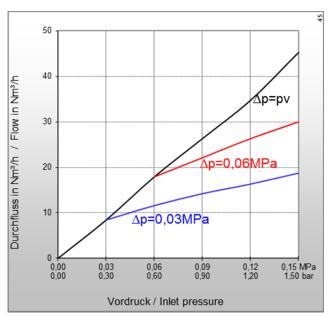
Other materials, surface finishing, gas types and additional connections available on request.

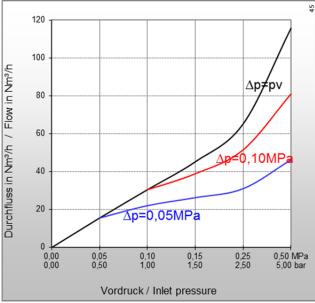
The working pressures approved by the UL are different to what is stated above.

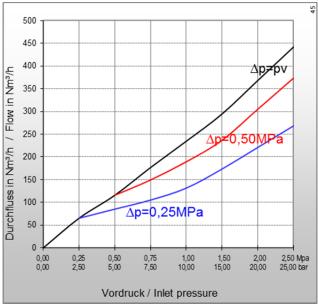
Further information in this regard can be provided on request

³⁾ F = Female, M = Male









Type: **DEMAX5N**

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

 Δp = Primary pressure minus Secondary pressure

Conversion Factors:

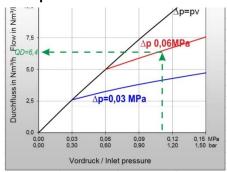
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

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

	Α	Н	Р	М	М	0	E	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

 ^{*} 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 \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 change without notice)