56 Newhall Road, Sheffield, S9 2QL Tel: 0114 349 4749 Fax: 0114 243 5297

GAS CUTTING

AND WELDING EQUIPMENT

Safety device with multiple function: **DGN** Type DGN for protection of cylinder regulators, tapping points and distribution lines.

The safety device DG91N 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 Hi-Lo UK Safety device DGN

- 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:

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Gas Types:	Acetylene (A)	Hydrogen (H) Industrial Gas (C) Propylene ²	Natural Gas (Methane) (M) Propane (P)	Ethylene ²⁾ (E)	Oxygen (O)	Compressed Air (D)			
Working Pressure:	0.15 MPa 1.5 bar	0.35MPa 3.5 bar	0.50 MPa 5.0 bar	0.40MPa 4.0 bar	2.5 MPa 25 Bar	2.5 MPa 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	G3/8LH M16x1,5LH UNF9/16-18LH UNF5/8-18LH				G1/4RH G3/8RH M16x1,5RH UNF9/16-18RH				
	1/4NPT				UNF5/8-18RH 1/4NPT				
Measure and weight	D	liameter	Length		Weight				
	2	2.0mm	87.0mm		153g				
Applications									
Process:	ν	Velding	Cutting		Heating				
	Up	to 30mm	Up to 2	00mm	Up to 100mm				

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. 2) These gas types are not covered by the BAM certification.



MADE IN BRITAIN





GAS CUTTING AND WELDING EQUIPMENT



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Type: DGN

Flow rates (air): Pv= Primary pressure Ph = Secondary pressure Δp = Primary pressure minus Secondary pressure

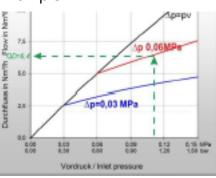
Conversion Factors:

0,1 MPa = 1 bar = 100 kpa = 14,504 psi 1 m3/h = 35,31 cu ft/h

	А	Н	Р	М	М	0	E	L
QG >	C_2H_2	H ₂	C₃H ₈	CH ₄ +C	CH ₄	O ₂	C_2H_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:



 $QG = QD \times F$ $QG \blacktriangleright A = 6,4 \times 1,2 = 7,68 \text{ m}^3/\text{h} C_2H_2$ QG = flow / gas type F = conversion factorQD = flow / air

Certification / Technical Standards / Rules

BAM Federal Institute for Materials Research and Testing, UL Underwriters Laboratories Inc., DGUV employer's liability insurance association rules and regulations, DVS German Association for Welding, Cutting and Allied Processes, TRBS German Technical rules for operation safety.

Standards/ Approvals

Company certified according to ISO 9001:2015 and ISO 14001:2015, CE-marking according to: Pressure Equipment Directive 2014/68/EU

