



SAFETY DEVICE WITH MULTIPLE FUNCTION

## DEMAX 5N

Model DEMAX 5N for connecting at cylinder regulators avoids dangerous gas mixtures by a gas non-return valve (NV), and 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.



## DEMAX 5N

### FEATURES :

#### SAFETY ELEMENTS OF SAFETY DEVICE DEMAX 5N:

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

#### 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, BGV German Health and Safety Regulations, BGR German employer's liability insurance association rules and regulations, DVS German Association for Welding, Cutting and Allied Processes

#### Standards/ Approvals

Company certified according to ISO 9001:2000 and ISO 14001, CE-marking according to: Pressure Equipment Directive 97/23/EG

### TECHNICAL DATA :

GAS TYPES	ACETYLENE (A)	HYDROGEN (H)	INDUSTRIAL GAS (C) ETHYLENE (E) NATURAL GAS (METHANE) (M) PROPANE (P)	COMPRESSED AIR (D) OXYGEN (O)
Working Pressure	0,15 Mpa 1,5 bar	0,3 MPa 3,0 bar	0,50 MPa 5,0 bar	1,50 MPa 15,0 bar
Ambient/working temperature:	max. 100 °C			
Threads: EN 560 ISO 3253	G 3/8 LH G 1/2 LH G 5/8 LH G 3/4 LH G 1 LH G 1 RH-F* UNF 9/16-18LH			G 3/8 RH G 1/2 RH G 5/8 RH G 3/4 RH G 1 RH G 1 RH-F* UNF 9/16-18RH

MEASURE AND WEIGHT:	diameter: 60,00 mm	length: 142,00 mm	weight: 1371,00 g
APPLICATIONS:			
Process:	welding	cutting	heating
	up to 30 mm	> 700 mm	> 100 mm

OTHER MATERIALS, SURFACE FINISHING AND ADDITIONAL CONNECTIONS AVAILABLE ON REQUEST.

#### MAINTENANCE:

The safety devices have to be tested by a qualified and authorized person at regular intervals according to country specific regulations. They have to be tested for gas tightness and gas return at least once a year.

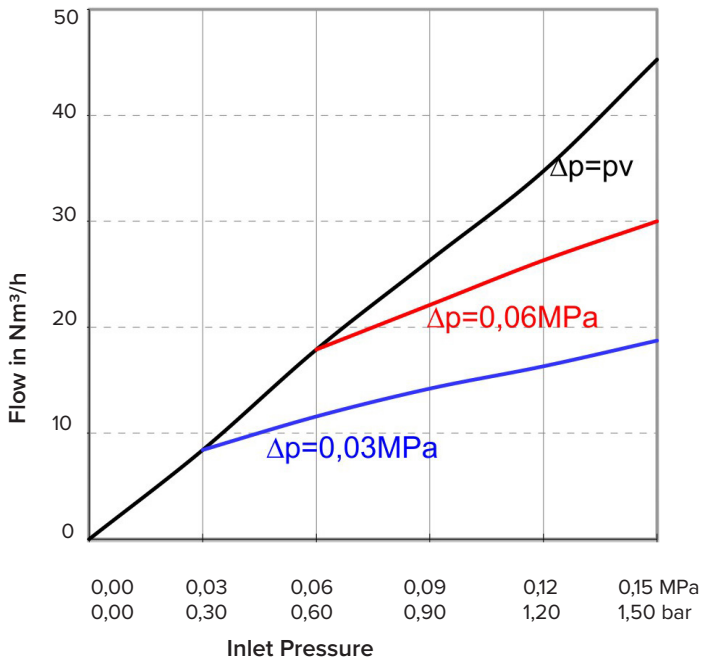
We would be pleased to offer you the flashback arrestor testing unit model: PVGD.

Safety devices are only to be opened and repaired by the manufacturer.

The dust filter may be replaced by a qualified person.

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## FLOW CHARTS:



### Flow rates:

$p_v$  = Primary pressure

$p_h$  = Secondary pressure

$\Delta p$  = Primary pressure minus Secondary pressure

### Conversion Factors:

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

1 m3/h = 35,31 cu ft

