

## Safety Device according to EN 730-1, ISO 5175

Model: **DGN**



**For protection of Cylinder-Regulators and Tapping Points.**



**The standard safety device for industries and small enterprises. The model DGN covers the most applications and can be used on Tapping Points as well as on single Cylinders.**

**Safety elements:**

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

**Dust filter promotes long shelf-life**

**Threads:**

In accordance with EN 560, ISO 3253 or country specific connections

Fuel Gas: G3/8"LH, M16X1.5LH, UNF9/16"-18LH, UNF5/8"-18LH, 1/4"-NPT

Oxygen/ Compressed Air: G1/4"RH, G3/8"RH, M16X1.5RH, UNF9/16"-18RH, UNF5/8"-18RH, 1/4"-NPT

For additional connections please contact IBEDA.

**Gas-Types:**

Acetylene (A), Town Gas (C), Ethylene (E), Hydrogen (H), Natural Gas (Methane) (M), Propane (P), Oxygen (O), Compressed Air (D)

**Working Pressure:**

A 1.5 bar ; H 3.5 bar ; CEMP 5.0 bar ; DO 15.0 (25.0) bar

**Measure and weight:**

diameter:	22,00 mm
length:	83,00 mm
weight:	152,00 g

**Maintenance:**

The safety devices have to be tested by a qualified and authorised 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.

**Design:**

Other materials and surface finishing on request.



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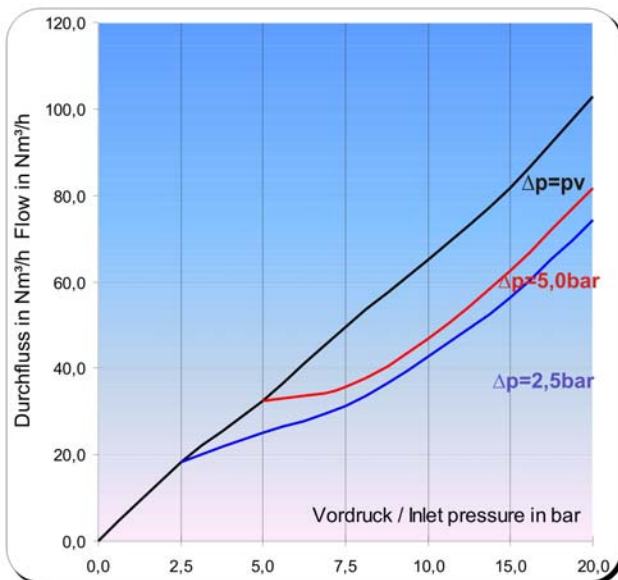
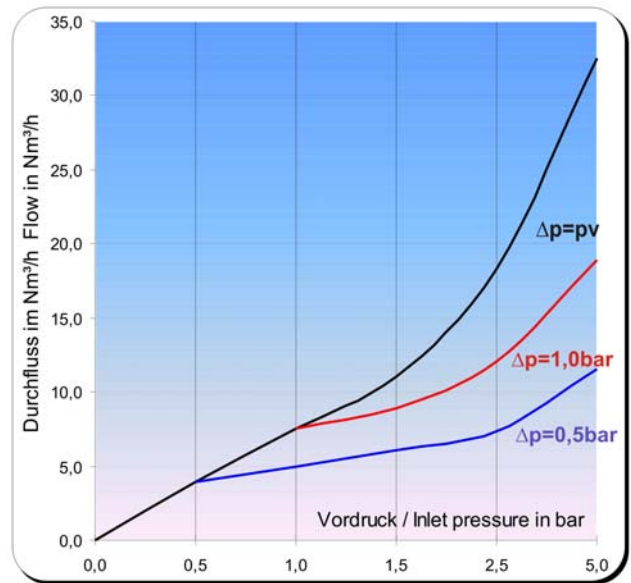
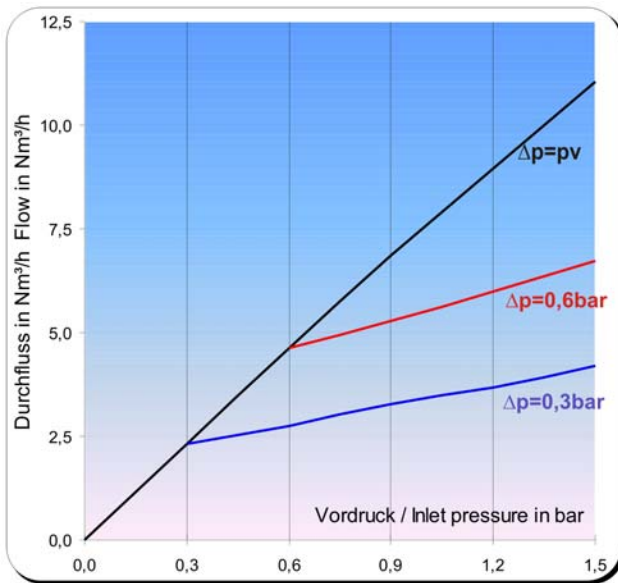
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### Flow rates:

$p_v$  = Primary pressure

$p_h$  = Secondary pressure

$\Delta p$  = Primary pressure minus Secondary pressure



### Conversion Factors

Gas type	Code	Pressure units:
Acetylen	A	1MPa = 10bar
Oxygen	O	1bar = 14,503psi
Hydrogen	H	1MPa = 145,03psi
Air	D	1bar = 100kPa
Natural Gas, Methane	M	1m³ = 35,32 ft³/h
Propane	P	
Ethene	E	

### Flow rate

Air	Air	1,00
Air	Acetylen	1,20
Air	Butane	0,86
Air	Natural Gas	1,25
Air	Methane	1,40
Air	Propane	0,90
Air	Oxygen	0,95
Air	Hydrogen	2,50
Air	Ethene	1,02



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