

Safety Device according to DIN EN ISO 5175-1, AS 4603
with Hose Coupling compatible with EN 561, ISO 7289

Safety device with multiple function: **DKSRT**

Type DKSRT for pressure regulators with outlet-pin according to EN 561/ ISO 7289

The safety device DKSRT 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)
- every safety device is 100% tested
- all metal components in brass 2.0401 / spring 1.4310

Safety elements of the IBEDA Safety Device DKSRT:

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



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.

Couplings are wearing parts and have to be tested by a qualified and authorised person (at least once a year). The tests have to be performed when the couplings are connected as well as disconnected.

Leakage tests are to be performed with inert gas or air (free from oil and grease) or the operating gas.

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 Industrial gas (H) (C)	Natural Gas (Methane) Propane (M) (P)	Oxygen (O)
Working pressure:	0,15 MPa 1,5 bar	0,35 MPa 3,5 bar	0,40 MPa 4,0 bar	2,0 MPa 20 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 UNF5/8-18RH	
Inlet:	coupling compatible with EN 561, ISO 7289, depending on the gas type			
Measure and weight:	diameter:	length:	weight:	
	21,0 mm	75,0 mm	----	
Applications:				
Process:	welding	cutting	heating	
	up to 30 mm	up to 200 mm	up to 30 mm	

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

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Type: DKSRT

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

Δp = Primary pressure minus Secondary pressure

Conversion Factors:

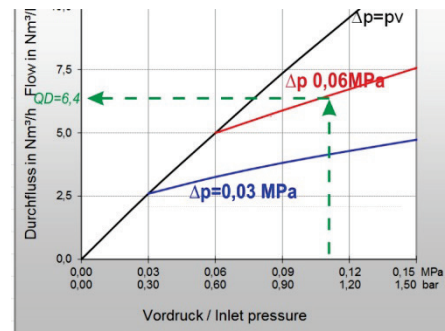
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

1 m³/h = 35,31 cu ft/h

	A	H	P	M	M	O	E	L
QG ▶	C ₂ H ₂	H ₂	C ₃ H ₈	CH ₄ +C	CH ₄	O ₂	C ₂ H 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 arrester
The conversion factor for free flow is 3.8.
(Reference: BAM report 220, D. Lietze)

Example:



$$QG = QD \times F$$

$$QG \blacktriangleright A = 6,4 \times 1,2 = 7,68 \text{ m}^3/\text{h C}_2\text{H}_2$$

QG = flow / gas type

F = conversion factor

QD = flow / air

Certification/ Technical Standards/ Rules

TRBS German Technical rules for operation safety, DVS German Association for Welding, Cutting and Allied Processes, DGUV German Employer's liability insurance association rules and regulations.

Standards/ Approvals

Company certified according to

ISO 9001:2015 and ISO 14001:2015,

CE-marking according to: Pressure Equipment Directive 2014/68/EU

(Subject to change without notice)

