

Safety device with multiple function: TT

Type TT for in-hose installation

The safety device TT according to EN 730-1, ISO 5175:

- avoids dangerous gas mixtures by a gas non-return valve (NV)
- stops flashback through flame arrestor (FA)
- 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 IBEDA Safety Device TT:

- NV Gas non-return valve
- FA Flame arrestor

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.

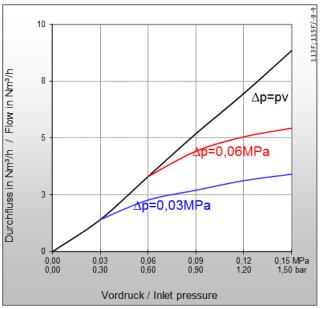
It is not allowed to open the safety devices.

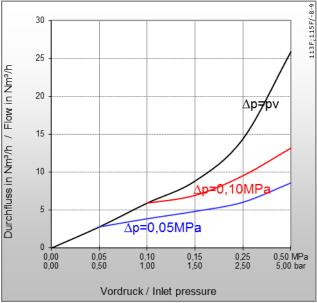
Technical Data:												
Gas types:	Acetylene (A)	Hydrogen Industrial gas	(H)	Natural Gas (Methane) Propane	(M) (P)	Oxygen	(O)	Compressed Air	(D)			
Working pressure:	0,15 MPa 1,5 bar	· · · · · · · · · · · · · · · · · · ·		,		2,0 MPa 20,0 bar		2,0 MPa 20,0 bar				
Cracking pressure:	50 to 70 mbar position-independent											
Ambient temperature:	-20°C up to +70°C											
Connection-hose pin:	4,0 mm; 5,0 mm; 6,3 mm; 8,0 mm; 9,0 mm											
Measure and weight:	diamete	r:		length:			weight:					
	19,5 mr	82,0 mm				66,0 g						
Applications:												
Process:	welding			cutting			heating					
	up to 30 mm			up to 200 mm			up to 30 mm					

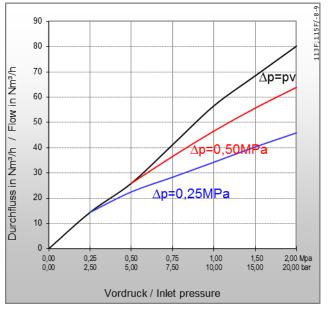
Other materials, surface finishing, gas types and additional connections available on request.











Type: **TT**

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

 Δp = Primary pressure minus Secondary pressure

Conversion Factors:

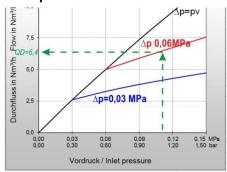
0,1 MPa = 1 bar = 100 kpa = 14,504 psi

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

	Α	Н	Р	М	М	0	Е	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

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 9001:2008 and ISO 14001:2004, CE-marking according to: Pressure Equipment Directive 2014/68/EU

(Subject to change without notice)

