

Gas filter: GF-25 T-Form

Type GF-25 T-Form for installation in pipelines

The gas filter GF-25 T-Form:

- will be installed in existing gas pipelines and is immediately ready-to-operate
- because of the variety of connections it is easy to assemble
- due to usability for many technical gases, wide range of application is achieved
- flow-enhancing design allow high flow rates
- a filter element made of chrome nickel steel or sintered bronze protects against finest mechanical contamination
- user-friendly design for simple cartridge change without disassemble

Optional:

- Condensate outlet valve
occurred condensate can be removed
- Pressure gauge
shows pressure loss, which can be caused by contaminations



Maintenance:

The gas filters are 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 at least once a year.

The filter elements are to be tested at regular intervals and replaced if required.

The filter element may be replaced by a qualified person.

If a condensate-drainage valve has been fitted, the condensate is to be drained off at regular intervals and disposed of in a correct manner.

Technical Data:

Gas types:	Acetylene (A)	Hydrogen (H) Industrial gas (C)	Natural Gas (Methane) (M) Propane (P)	Oxygen (O)	Compressed Air (D) Nitrogen (N) Carbon dioxide (N) Argon (N) Helium (N)
Working pressure:	0,15 MPa 1,5 bar	4,0 MPa 40,0 bar		4,0 MPa 40,0 bar	
Ambient/ working temperature:	-20°C up to +60°C				
Filter elements:	chrome nickel steel	sintered bronze			
Filter mesh *:	30 µm				
Threads: DIN ISO 228, ISO/ TR 28821	G1RH F/F ³⁾ 1NPT F/F ³⁾				
Measure and weight:	diameter:	length:		weight:	
	98,0 mm	180,0 mm		5,5 kg	

* The indicated filter mesh describes the size of the filtered particles, related to filtration performance using liquids according to ASTM F 795. In gas filtration, much smaller particles can be filtered due to certain physical mechanisms inside the filter.

³⁾ F = Female, M = Male

Type: GF-25 T-Form

Flow rates [air]:

pv = Primary pressure
 ph = Secondary pressure
 Δp = Primary pressure minus Secondary pressure

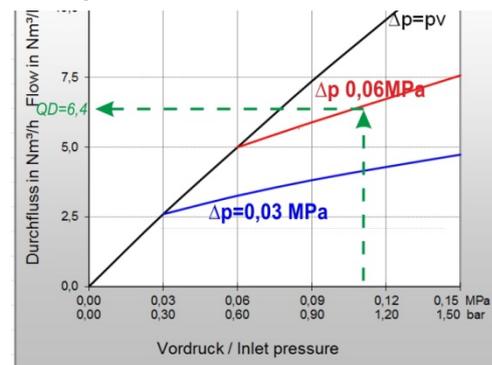
Conversion Factors:

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)

