Central Gas Manifold Systems

Gas filter: GF-25 Inline

Model for installation in pipelines GF-25 Inline

The gas filter GF-25 Inline:

- for installation in horizontal and vertical gas pipelines.
- 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.
- by the filter cartridge, out of chrome-nickel steel or sintered bronze, finest filtering of mechanic contaminations
- user-friendly design for simple cartridge change.

Maintenance:

The filter cartridge has to be checked regularly and if necessary to be exchanged.

The dust filter may be replaced by a qualified person.

Technical Data:

Gas types:	Acetylene (A)	Hydrogen (H)	Industrial gas (C) Ethylene (E) 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: EN 560, ISO/ TR 28821	G 1 IG NPT 1 IG				

Measure and weight:	diameter:	length:	weight:
	90.0 mm	187.0 mm	4.1 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.

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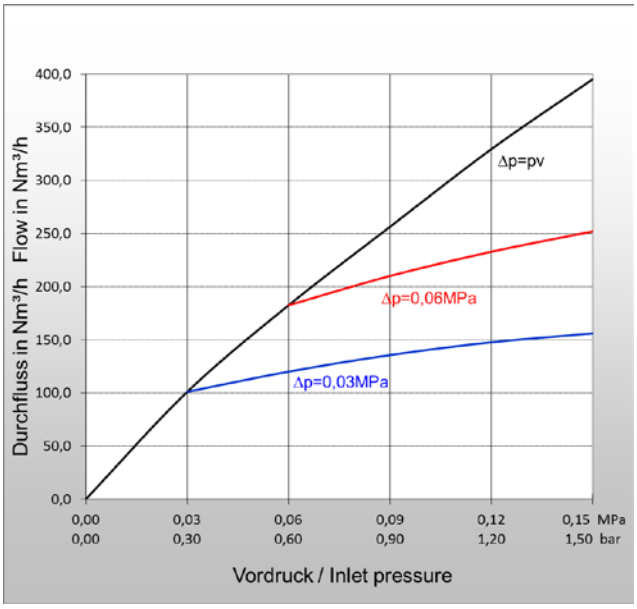
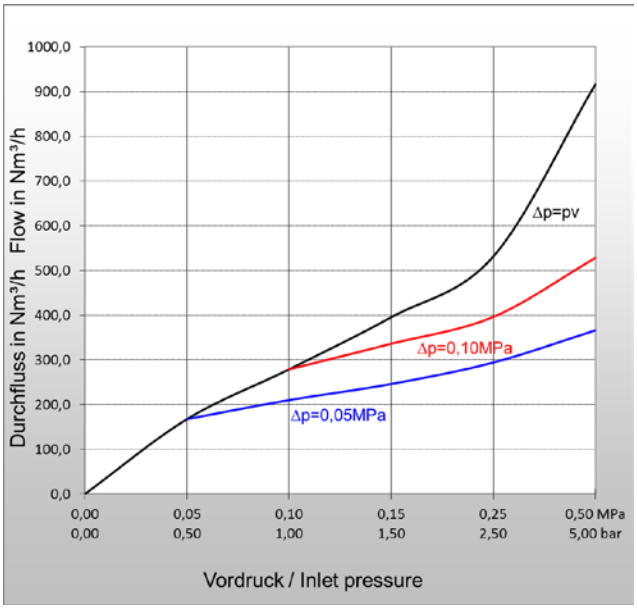
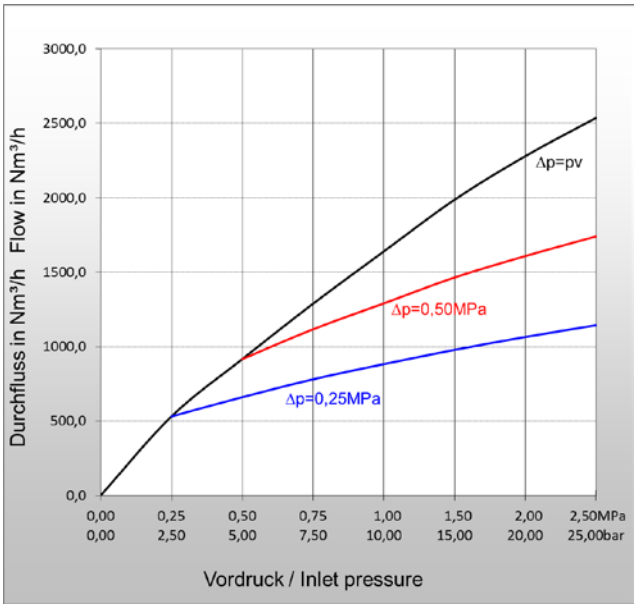






Model: **GF-25 Inline**

Flow rates [air]:

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

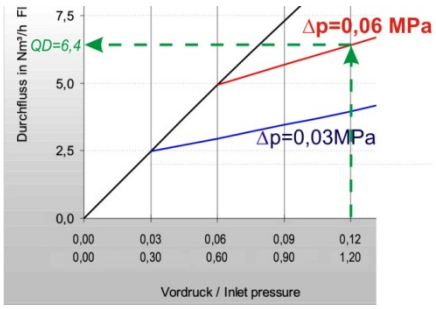
Conversion Factors:

0,1 MPa = 1 bar = 100 kpa = 14.504

psi 1 m3/h = 35.31 cu ft

	A	H	P	M	M	O
QG ►	C_2H_2	H_2	C_3H_8	CH_4+C	CH_4	O_2
F	1.2	2.5	0.90	1.25	1.4	0.95

Example:



QG = QD x F

QG ► A = 6,4 x 1,2 = 7,68 m^3/h C_2H_2

QG = flow/ gas type
F = conversion factor
QD = flow /air

Certification/ Technical Standards/ Rules

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 9001:2008 and ISO 14001:2004,
CE-marking according to: Pressure Equipment Directive 97/23/EG

(Subject to change without notice)

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