

Central Gas Manifold Systems

Gas filter: **GF-50 inline**

Type GF-50 inline for installation in pipelines

The gas filter GF-50 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
- a filter element made of sintered bronze protects against finest mechanical contamination
- user-friendly design for simple cartridge change.



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.

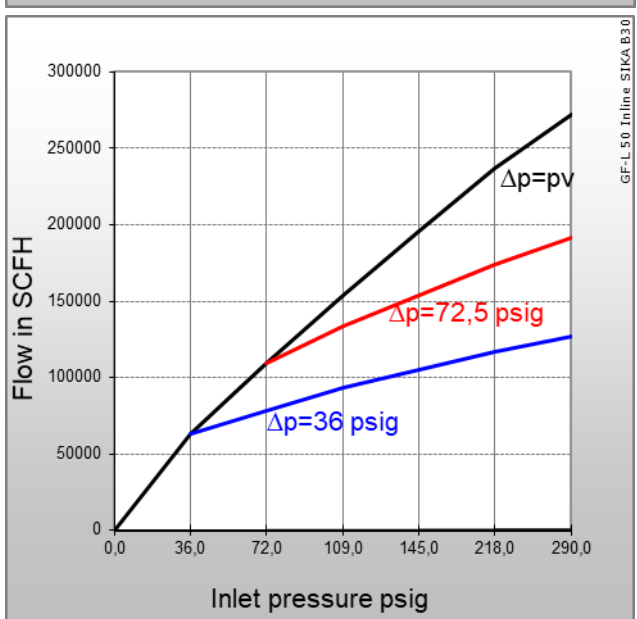
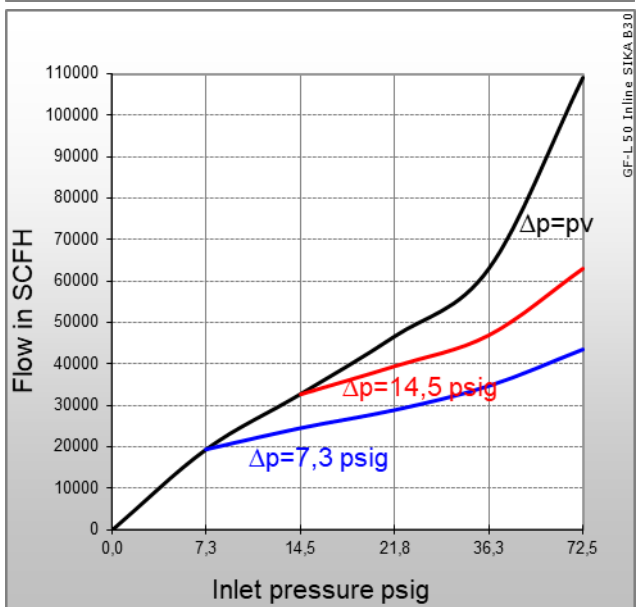
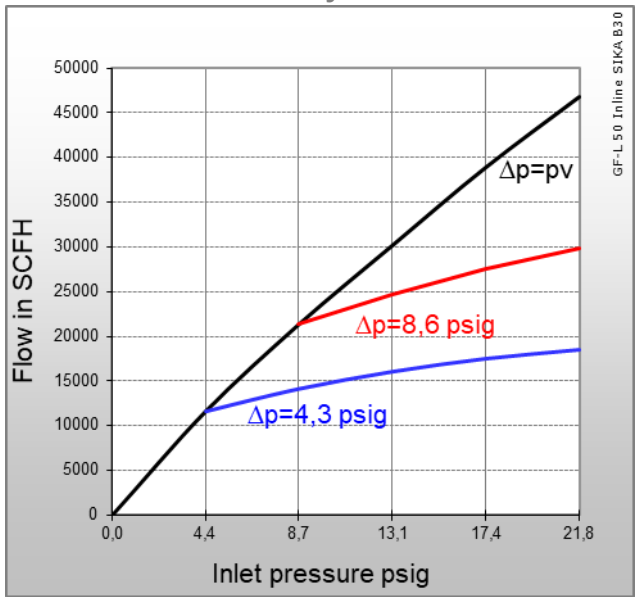


Technical Data:				
Gas-Types:	Hydrogen (H)	Industrial Gas (C) Ethylene (E) Natural Gas (Methane) (M) Propane (P)	Oxygen (O)	Compressed Air (D) Nitrogen (N) Carbon dioxide (N) Argon (N) Helium (N)
Working pressure:	290.1 psig		290.1 psig	
Ambient/ working temperature:	-68°F up to +140°F			
Filter elements:	Sintered bronze			
Filter mesh *:	30 µm			
Threads: DIN ISO 228, ISO/TR 28821	G2RH F/F ³⁾ 2NPT F/F ³⁾			
Measure and weight:	diameter:	length:	weight:	
	4.72 inch	14.02 inch	24.91 lb	

* 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

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Flow rates [air]:

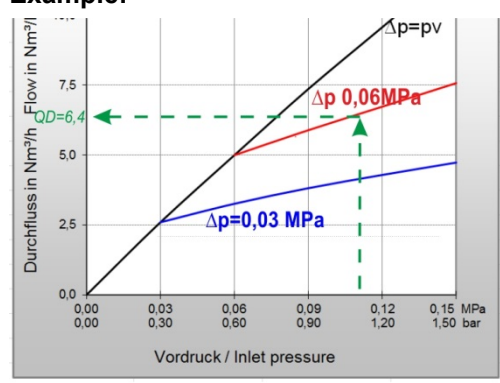
pv = Primary pressure
 ph = Secondary pressure
 Δp = Primary pressure minus Secondary pressure

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

Example:



$$QG = QD \times F$$

QG ► 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

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)