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:

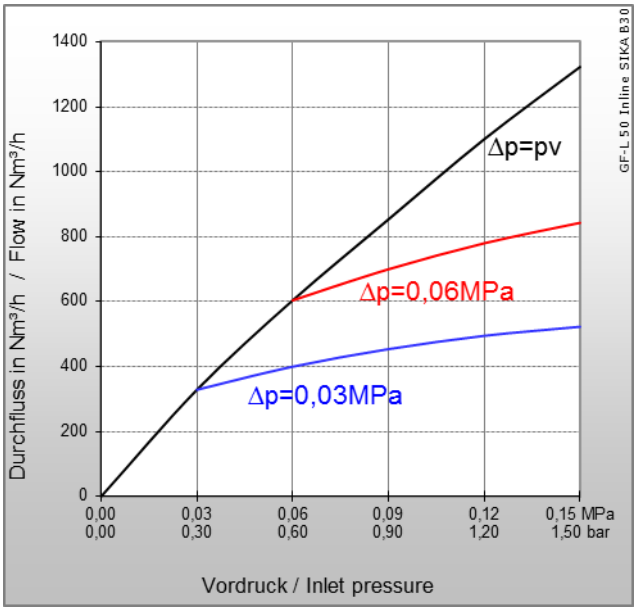
Gas-Types:	Hydrogen	(H)	Industrial Gas Ethylene Natural Gas (Methane) Propane	(C) (E) (M) (P)	Oxygen	(O)	Compressed Air Nitrogen Carbon dioxide Argon Helium	(D) (N) (N) (N) (N)
Working pressure:	2,0 MPa 20 bar				2,0 MPa 20 bar			
Ambient/ working temperature:	-20°C up to +60°C							
Filter elements:	sintered bronze							
Filter mesh *:	30 µm							
Threads: DIN ISO 228, ISO/TR 28821	G2RH F/F[3)] 2NPT F/F[3)]							

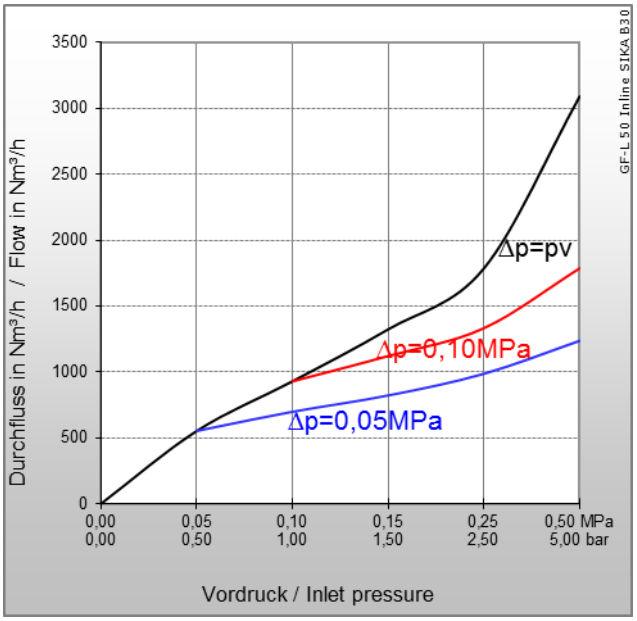
Measure and weight:	diameter:	length:	weight:
	120,0 mm	356,0 mm	11,3 kg

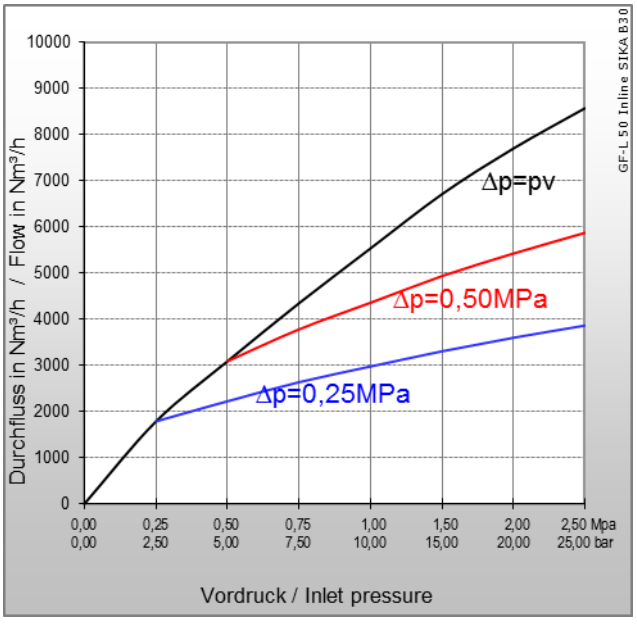
* The indicated filter mesh describes the size of the filtered particles, related to filtration performance using liquids according to ASTM F 795. In gas filtration, much smaller particles can be filtered due to certain physical mechanisms inside the filter.

[3)] F = Female, M = Male

IBEDA Sicherheitsgeräte und Gastechnik GmbH & Co. KG ● Bahnhofstr. 27 ● 53577 Neustadt (Wied)
Tel. +49 (0)2683.306-0 ● Fax +49 (0)2683.306-31 ● www.ibeda.com ● info@ibeda.de







Type*:* **GF-50 Inline**

Flow rates [air]:

pv = Primary pressure

ph = Secondary pressure

Δp = Primary pressure minus Secondary pressure

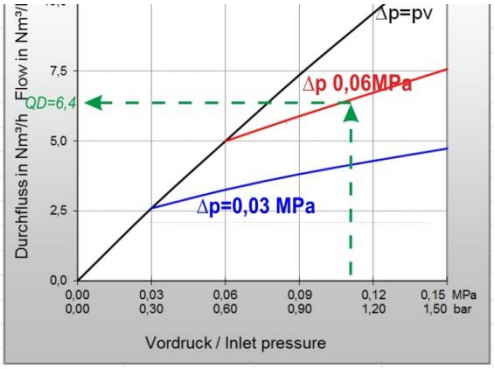
Conversion Factors:

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

1 m^3/h = 35,31 cu ft/h

	A	H	P	M	M	O	E	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

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

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)

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