

GENO-fine filter FS-B

Intended use

The GENO-fine filters FS-B are designed for the filtration of drinking water.

The filters can be used for positive and negative pressure applications.

The filters are not suitable for circulation water that has been treated with chemicals.

The filters are neither suitable for oils, greases, solvents, soaps and other lubricating media, nor for the separation of water-soluble substances.

The filters are designed according to the stipulations of DIN EN 13443-1 and DIN 19628 and are intended for installation into drinking water pipes according to DIN EN 806-2 (installation immediately downstream of the water meter).

They protect the water pipes and connected water-carrying system parts from disturbances and corrosion damage due to undissolved impurities (particles) such as rust particles, sand, etc.

Function

The unfiltered drinking water flows into the filter from the inlet side and then from the outside in through the filter element and to the pure water outlet. Thus, foreign particles of $> 80 \mu\text{m}$ in size are retained.

Depending on their size and weight, the foreign particles either stick to the filter element or they fall straight down into the filter cylinder.

In order to indicate the operating pressure, a pressure gauge with brass insert can additionally be installed on the inlet or outlet side.

Design

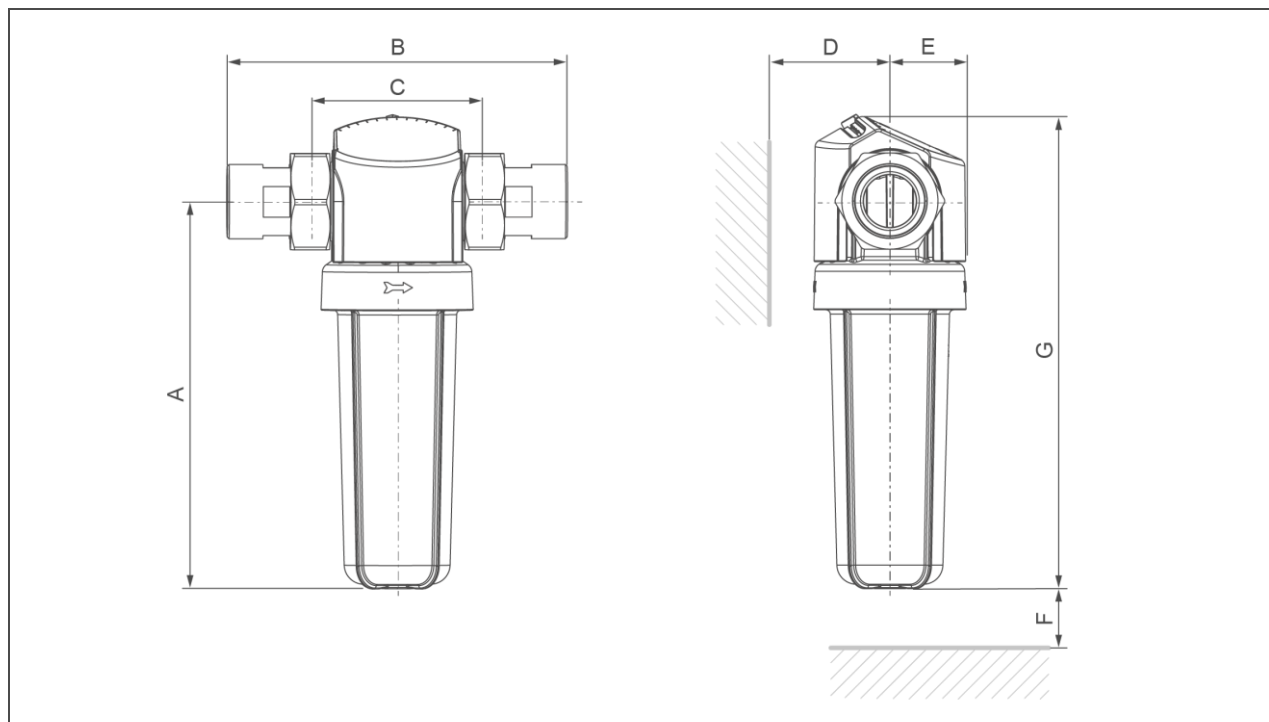
- Filter housing made of pressure-resistant, glass-fibre reinforced plastic.
- Water meter screw connections made of dezincification-resistant brass with seals.
- Filter cylinder made of transparent, high-strength plastic can be screwed on and off by hand.
- Maintenance ring to set the next maintenance date.
- Support mesh made of high-grade plastic for long-term use.

- Replaceable filter element made of polyester fabric (pore size $80 \mu\text{m}$ in the standard version; $50 \mu\text{m}$, $20 \mu\text{m}$ and $5 \mu\text{m}$ can be retrofitted).
- All water-contacting parts comply with the German Drinking Water Ordinance.
- All materials are recyclable.

Scope of supply

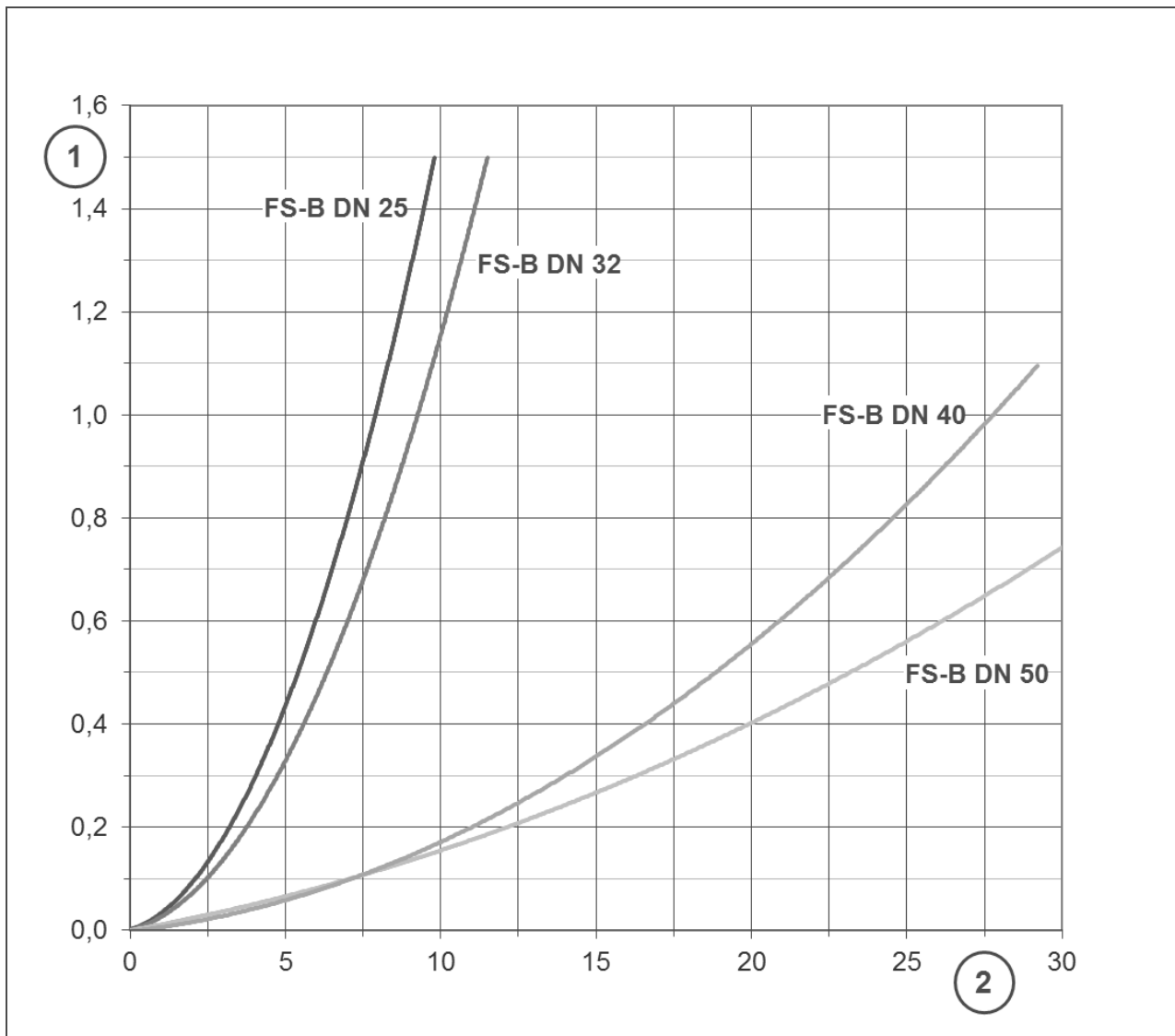
- GENO-fine filter FS-B
- Water meter screw connection
- $80 \mu\text{m}$ filter element
- Operation manual

Technical specifications



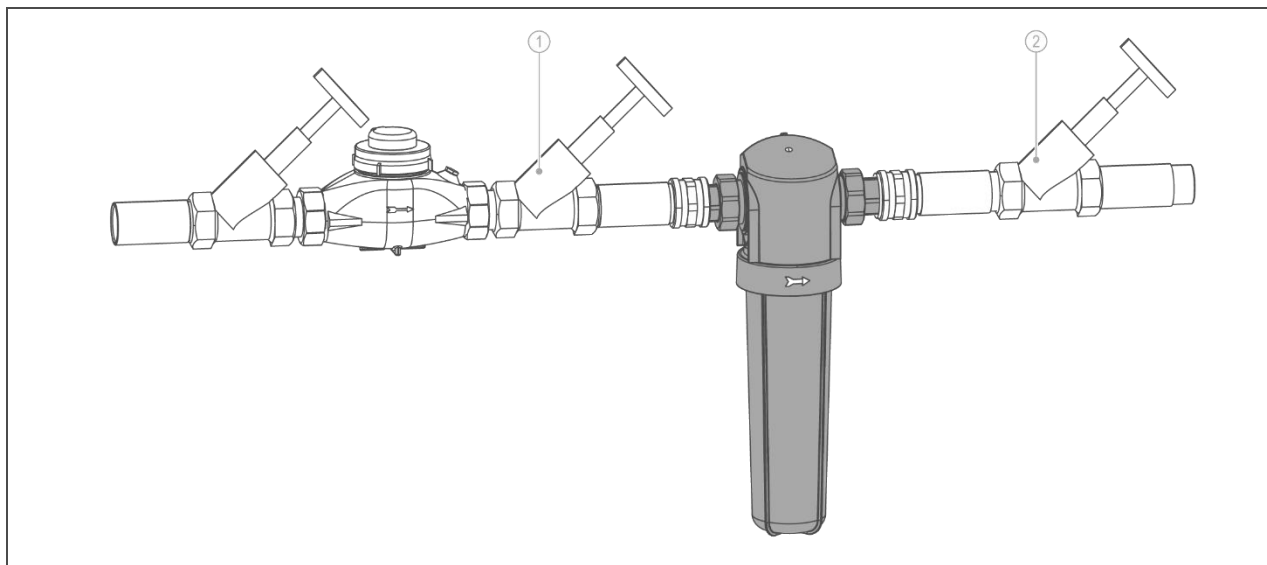
Dimensions and weights			GENO-fine filter FS-B			
Nominal connection diameter			DN 25	DN 32	DN 40	DN 50
Connection diameter			1"	1¼"	1½"	2"
A	Installation height up to centre of connection	[mm]	220		430	
B	Installation length with screw connection	[mm]	182	191	283	277
C	Installation length without screw connection	[mm]	100		160	
D	Min. distance to wall	[mm]	70		90	
E	Installation depth up to centre of connection	[mm]	45		65	
F	Clearance required to replace the filter element	[mm]	> 150		> 390	
G	Total height	[mm]	265		508	
	Empty weight, approx.	[kg]	1.2	1.4	3.7	4.4
Performance data						
Nominal flow at Δp 0.2 (0.5) bar		[m³/h]	3.7 (6.0)	4.0 (6.2)	11.1 (19.9)	13.9 (23.3)
Pore size		[µm]	80			
Largest/smallest pore size		[µm]	140/80			
Operating pressure		[bar]	2 - 16			
Nominal pressure			PN 16			
General data						
Water temperature		[°C]	5 - 30			
Ambient temperature		[°C]	5 - 40			
DVGW registration number			NW-9301BT0200			
Order no.			101 170	101 175	101 180	101 185

Pressure loss curves of GENO-fine filter FS-B



Item	Designation	Item	Designation
1	Pressure difference [bar]	2	Flow rate [m³/h]

Installation example



Item	Designation	Item	Designation
1	Shut-off valve (inlet)	2	Shut-off valve (outlet)

Installation requirements

Observe local installation directives, general guidelines and technical specifications.

The installation site must be frost-proof and ensure the filter's protection from chemicals, dyes, direct sunlight, solvents and their vapours.

The installation site must be easily accessible for maintenance purposes.

Accessories

Filter elements

2x each included in scope of supply.

DN 25 (1"), DN 32 (1¼")

103 068 Filter element	50 µm
103 071 Filter element	20 µm
103 081 Filter element	5 µm

DN 40 (1½"), DN 50 (2")

103 070 Filter element	50 µm
103 083 Filter element	5 µm

Pressure gauges

100 860 Pressure gauge	1"
100 865 Pressure gauge	1¼"
100 870 Pressure gauge	1½"
100 875 Pressure gauge	2"

Pressure gauges to indicate the operating pressure (0 - 10 bar) with brass insert for inlet or outlet side.

Black filter cylinders

101 190. Filter cylinder	1½"
101 200. Filter cylinder	2"

Optional: Black filter cylinders to protect the filter from algae growth and UV radiation.

Consumables

2x each included in scope of supply.

DN 25 (1"), DN 32 (1¼")

103 075 Filter element 80 µm

DN 40 (1½"), DN 50 (2")

103 077 Filter element 80 µm

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