

# Flotrex\* GF

## FACT SHEET

### Pleated filters with glass microfiber media



Figure 1: Flotrex GF Filters

### Description and Use

The Flotrex GF (FGF) filter (Figure 1) is an absolute-rated, glass microfiber filter. The filters do not leach any flavor-altering substances and are ideal for final filtration applications. FGF filters have the important International Bottled Water Association (IBWA)-recommended 1.0-micron absolute rating.

The FGF filter is just one example of our strong commitment to liquid, air and gas treatment. Our complete portfolio includes filters for every stage of processing, and we offer custom solutions for your unique applications. Veolia is your complete source for filters, housings, and other filtration equipment.

### Applications

Flotrex GF filters are specifically designed for high throughput and long service life. Typical applications include:

- Final Filtration for Bottled Water
- Prefiltration of Pharmaceuticals and Biologicals
- Cosmetic Oil, Gel and Shampoo Filtration
- Beverage Clarification
- Paints and Coatings
- Ink

### General Properties

Flotrex GF filters are available the following absolute pore size micron ratings: 0.45 and 3.0  $\mu\text{m}$  and 1.0  $\mu\text{m}$ . Tables 1, 2, 3, and 4 show further details on materials of construction, Flotrex GF filters are available the following absolute pore size micron ratings: 0.45 and 3.0  $\mu\text{m}$  and 1.0  $\mu\text{m}$ . Tables 1, 2, 3, and 4 show further details on materials of construction, dimensions, operational limits, and flow performance in air and water.

### Safety Precautions

A Safety Data Sheet containing detailed information about this product is available on request.

Table 1: Materials of Construction

Filtration Media	Acrylic Resin-Bonded Glass Microfiber
Support Layers	Polypropylene Microfiber
Core and Cage	Polypropylene
Endcaps and Adapters	Polypropylene

**Table 2: Dimensions**

Filter Model	Nominal O.D.	Nominal I.D.	Effective Filtration Area
FGF94	2.75" (70 mm)	1.25" (31mm)	3.8 ft <sup>2</sup> (0.35m <sup>2</sup> )
FGF01	2.75" (70 mm)	1.25" (31mm)	4.4 ft <sup>2</sup> (0.41m <sup>2</sup> )
FGF03	2.75" (70 mm)	1.25" (31mm)	4.4 ft <sup>2</sup> (0.41m <sup>2</sup> )

**Table 3: Operational Limits**

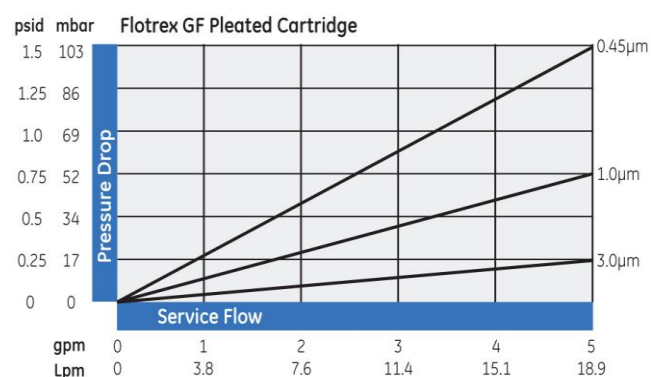
Maximum Forward Differential Pressure	60 psi (4.1 bar) at 70°F (21°C)
Maximum Reverse Differential Pressure	30 psi (2.1 bar) at 70°F (21°C)
Maximum Operating Temperature	180°F (82°C) at 10 psid (0.69 bar) in water

## Additional Information

- Flotrex GF filters may be autoclaved or in situ steam sterilized (up to 257°F [125°C] 30-minute cycles) for a maximum accumulated exposure of 10 hours. Alternatively, the filters may be sanitized with compatible chemical agents.
- Veolia certifies that the materials contained in its Flotrex GF pleated filters meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR. For further information, contact Veolia technical services. Flotrex GF filters meet the test criteria for USP Class VI-121°C Plastics.

- Aqueous extracts from Flotrex GF filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.
- Veolia Filter cartridges are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact your Veolia distributor for more information.

**Table 4: Flow Performance in Clean Water<sup>1</sup>**



<sup>1</sup> Data based on 10" length filter

**Table 5: Ordering Information**

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
FGF	94 = 0.45 µm	1 = 10 inch (25 cm) 2 = 20 inch (51 cm) 3 = 30 inch (76 cm) 4 = 40 inch (102 cm)	A = Open End Gasket B = 120 O-Ring C = 213 O-Ring E = 222 O-Ring F = 226 O-Ring J = 020 O-Ring Q = 222 O-Ring Stainless Steel Insert <sup>2</sup> Z = 226 O-Ring Stainless Steel Insert <sup>2</sup>	A = Open End Gasket B = 120 O-Ring C = 213 O-Ring G = Closed End Cap H = Fin Adapter	B = Buna-N E = EPDM S = Silicone T = Teflon <sup>3</sup> Encapsulated Viton <sup>3</sup> (only in 222 and 226 sizes) V = Viton
	01 = 1.0 µm				
	03 = 3.0 µm				
	<b>Example: FGF013EHS</b>				

<sup>2</sup>Q or Z Adapters normally require G or H adapters.

<sup>3</sup>Teflon and Viton (trademarks of The Chemours Company).



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