

Flotrex* GF-C

pleated cartridge filters with glass microfiber media certified to NSF/ANSI standard 53 for cyst retention



description and use

The Flotrex GF-C (FGF-C) filters are designed for the removal of Cryptosporidium and Giardia cysts from potable water sources. The cysts from these parasitic microorganisms are a significant cause of water born disease. Because of their small size and resistance to chlorine disinfection, they are not reliably controlled by conventional water treatment methods. By meeting NSF/ANSI Standard 53, the FGF-C filters retain >99.95% of these cysts and can help prevent the illnesses they cause.

The FGF-C 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. SUEZ is your complete source for filters, housings and other filtration equipment.

applications

Flotrex GF filters are used for cyst reduction and clarification. Typical applications include:

- Filtration of Bottled Water
- Beverage Clarification
- Potable Water

general properties

As required by NSF/ANSI Standard 53, the Flotrex GF-C filters have a 1.0 micron absolute pore size rating. Tables 1, 2, 3 and 4 provide details on materials of construction, dimensions, operational limits and water flow performance.

Table 1: Materials of Construction

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

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Table 2: Dimensions

Nominal O.D.	Nominal I.D.	Effective Filtration Area
2.75" (70 mm)	1.25" (31mm)	4.4 ft ² (0.41m ²)

Table 3: Operational Limits

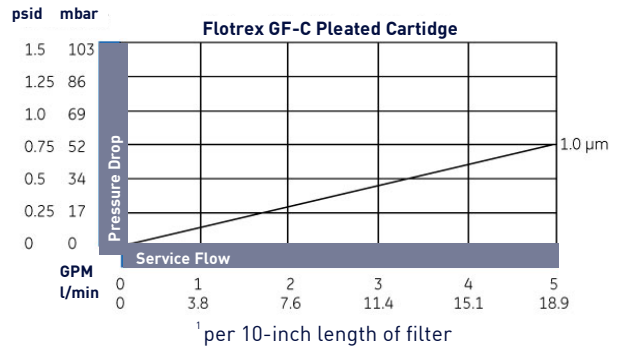
Description	Operational Limits
Maximum Forward Differential Pressure	60 psi (4.1 bar) at 70°F (21°C)
Maximum Reverse Differential Pressure	30 psi (2.1 bar) at 70°F (21°C)
Maximum Operating Temperature	180°F (82°C) at 10 psid (0.69 bar) in water
Maximum Recommended Water Flow	5 gpm (18.9 L/min) per 10-inch length of filter

additional information

- Flotrex GF-C filters with stainless steel insert supported o-ring adapters (Q or Z adapter) may be autoclaved or in situ steam sterilized at 125°C (30 minute cycles) for a maximum accumulated exposure of 10 hours. Alternatively, the filters may be sanitized with compatible chemical agents.
- SUEZ certifies that the materials contained in its Flotrex GF-C filters meet US FDA requirements for food contact under the applicable regulations in 21 CFR. For further information, contact SUEZ technical services.
- Flotrex GF-C filters meet the test criteria for USP Class VI-121°C Plastics. Aqueous extracts from the filters typically contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.

Flotrex GF-C filters have been certified by NSF International to meet Standard 53 and retain >99.95% of Cryptosporidium and Giardia cysts.

Table 4: Flow Performance in Clean Water¹



COMPONENT

This Flotrex GF-C filter is tested and certified by NSF International against NSF/ANSI Standard 53 for cyst reduction and material requirements.



Table 5: Ordering Information

Type	Absolute Pore Size Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material	Grade
FGF	01 = 1.0µm	1 = 10 inch (25cm) 2 = 20 inch (51cm) 3 = 30 inch (76cm) 4 = 40 inch (102cm)	E = 222 O-Ring F = 226 O-Ring Q = 222 O-Ring with Stainless Steel Insert Z = 226 O-Ring with Stainless Steel Insert	G = Closed End Cap H = Fin Adapter	E = EPDM S = Silicone T = Teflon ² Encapsulated V = Viton	-C = certified by NSF to meet Standard 53 requirements for cyst retention
	Example: FGF013EHS-C					

²Teflon and Viton are registered trademarks of DuPont.