Flotrex* GF Capsules

With Glass Microfiber Media

Description and Use

Flotrex GF Capsule Filters (CFGF) are constructed with durable acrylic resin bonded glass microfiber media for superior performance in applications with excessive particle burden. CFGF filters provide excellent protection for final membrane filters and are also exceptional final filters in applications that do not require membrane filtration. Figure 1 shows the variety of Flotrex GF Capsule Filters.

- Flotrex GF has acrylic resin-bonded glass microfiber media
- Reliable particle retention
- Excellent service life in applications with severe particle loads
- Polypropylene structure for enhanced chemical resistance
- Excellent protection for final membrane filters
- Ideal for batch or small volume processes

Typical Applications

- Pre-filtration for a wide variety of pharmaceuticals including serums, tissue culture media, and protein solutions
- Pre- and final filtration of cosmetics
- Pre-filtration of beverages
- Final filtration of beverages that do not require membrane filtration
- Filtration of water for protozoan reduction
- Filtration of compatible paints and coatings

Figure 1: Flotrex GF Capsule Filters

Available Absolute Micron Ratings

Flotrex GF Capsule Filters are available in 0.45, 1.0 and 3.0 μm micron ratings.

Materials of Construction

- Filtration Media: Acrylic Resin-Bonded Glass Microfiber
- Support Layers: Polypropylene Microfiber
- Structural Components: Polypropylene

Table 1 details the dimensions of the Flotrex GF Capsule Filters.

FS1072EN 0602

Table 1: Filter Dimensions

Diameter	3.5" (9cm)	
Capsule Size	Effective Filtration Area	Length**
Small	0.8 ft² (748 cm²)	3.5 – 5.0" (9 – 13 cm)
Medium	3.0 ft² (2806 cm²)	7.6 – 9.1" (29-23 cm)
Large	5.9 ft² (5500 cm²)	11.5–13.0" (29–33 cm)

** Varies with connection style.

Operational Limits

- **Maximum Operating Pressure:**
  80 psi (5.5 bar) @ 70°F (21°C) in Liquid
  55 psi (3.8 bar) @ 70°F (21°C) in Gas

- **Maximum Differential Pressure:**
  60 psi (4.1 bar) @ 70°F (21°C)

- **Maximum Operating Temperature:**
  110°F (43°C) at ≤ 30psi (2.1 bar)
  Operating Pressure

Additional Information

Flotrex GF filters may be autoclaved or in-situ steam sterilized (up to 257°F [125°C], 30 minute cycles) for a maxium accumulated exposure of 10 hours. Alternatively, the filters may be sanitized with compatible chemical agents.

GE certifies that the materials contained in its Flotrex GF Capsule filters meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR. For further information, contact the GE Technical Services Department. Flotrex GF filters meet the test criteria for USP class VI-121°C Plastics.

GE Water & Process Technologies filter capsules 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 GE distributor for more information.

Figures 2, 3 and 4 show the test data results of flow performance for the small, medium and large Flotrex GF Capsule Filters using a 10-inch length filter.
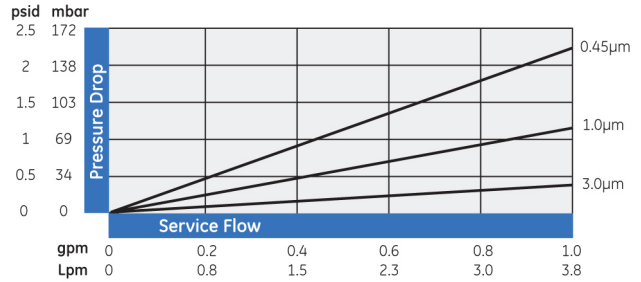

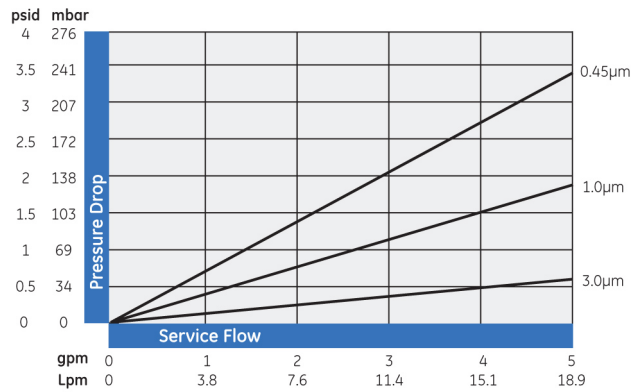**Figure 2: Flotrex small capsule flow performance in clean water[1]**

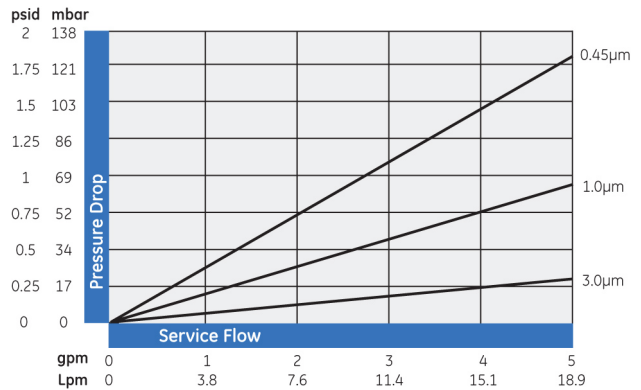**Figure 3: Flotrex medium capsule flow performance in clean water[1]**

Figure 4: Flotrex large capsule flow performance in clean water[1]

[1] Data Based on 10-inch length filter

For more information

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