STERLITECH

Glass Fiber Capsule Filters

Glass fiber capsule filters are constructed with durable acrylic resin bonded glass microfiber media for superior performance in applications with excessive particle burden. Glass fiber filters provide excellent protection for final membrane filters and are also exceptional final filters in applications that do not require membrane filtration.

FEATURES AND BENEFITS

- Acrylic-bonded glass microfiber media
- Reliable particle retention
- Long service life with high particle loads
- Chemically resistant polypropylene structure
- Protects final membrane filters
- Ideal for batch or small-volume use

APPLICATIONS

• Pharmaceuticals
• Cosmetics
• Beverages
• Paints
• Coatings

PRODUCT DESCRIPTION

Glass fiber capsule filters can be autoclaved or steam sterilized in place at up to 257°F (125°C) for 30-minute cycles, with a maximum cumulative exposure of 10 hours. They can also be sanitized using compatible chemical agents.

Sterlitech certifies that these filters meet U.S. FDA requirements for food contact per 21 CFR regulations and comply with USP Class VI-121°C plastics standards.

Designed for broad chemical resistance, users should verify compatibility based on their specific application. For further assistance, feel free to contact us.

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MATERIALS OF CONSTRUCTION	
Membrane	Acrylic Resin-Bonded
Membrane Supports	Polypropylene Microfiber
Cage, Core, End Caps	Polypropylene
Fitting Connections	MNPT, Sanitary Flange, Hose Barb
DIMENSIONS (NOMINAL)	
Lengths Available	3.5-5.0” (9-13 cm) 7.6-9.1” (19-23 cm) 11.5-13.0” (29-33)
Diameter	3.5 in (9 cm)
Effective Filtration Area	0.5 ft^2 (465cm^2) 1.9 ft^2 (1765 cm^2) 3.7 ft^2 (3437 cm^2)
OPERATING CONDITIONS	
Max Operational Pressure	80 psi (5.5 bar) @ 70° F (21°C) in Liquid 55 psi (3.8 bar) @ 70° F (21°C) in Gas
Max Differential Pressure	60 psi (4.1 bar) @ 70°F (21°C)
Max Operating Temperature	110°F (43°C) at ≤30 psi (2.1 bar) Operating Pressure

*Varies with connection style.

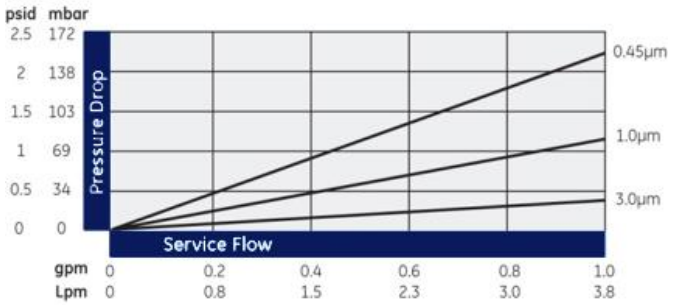

Figure 1. Small capsule flow rate performance in clean water.

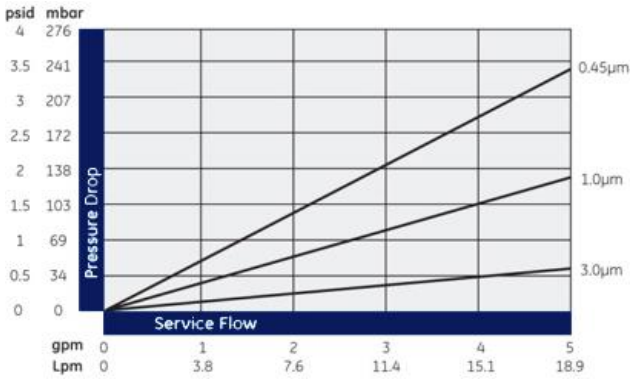

Figure 2. Medium capsule flow rate performance in clean water.

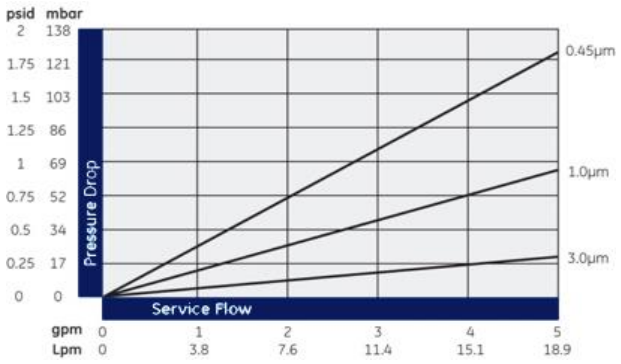

Figure 3. Large capsule flow rate performance in clean water.

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