STERLITECH

PTFE Capsule Filters

PTFE Capsule filters consistently achieve absolute filtration with low extractables. Constructed using a 100% PTFE membrane, they are especially designed for reliable general chemical and air filtration.

FEATURES AND BENEFITS

- Naturally Hydrophobic PTFE Membrane
- Wide Chemical & Thermal Compatibility
- Low Filter Extractables
- Quality Manufacturing

APPLICATIONS

- Acids
- Bases
- Solvents
- Fine Chemicals
- Plating Solutions
- Process Water
- Beverages
- Ink Jets
- Electronics
- Pharmaceuticals
- Biologics
- Dyes
- Lacquers
- Parts Cleaning

PRODUCT DESCRIPTION

Sterlitech PTFE filter capsules are highly retentive hydrophobic PTFE membrane filters that have been specially designed for critical applications. The PTFE membrane in an all-polypropylene construction provides excellent chemical compatibility and superior flow per surface area as compared to other membrane capsules. No adhesives, binders, or surfactants are used in the manufacturing process and all cartridges are rinsed with high purity water to reduce extractables and downtime.

The hydrophobic PTFE membrane is ideally suited for aggressive chemicals such as acids, bases, and solvents. In addition, the hydrophobic membrane provides superior flow and pressure drop characteristics per surface area for gas filtration and tank venting applications. All filter capsules are 100% integrity tested to ensure filter performance each and every time out of the package. Sterlitech PTFE filter capsules are well suited for critical applications where superior flow and particle removal efficiency at 0.1, 0.2, 0.45 and 1.0 micron is required.

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MATERIALS OF CONSTRUCTION	
Membrane	Hydrophobic PTFE
Membrane Supports	Polypropylene
Cage, Core, End Caps	Polypropylene
Fitting Connections	MNPT, FNPT, Compression, Flare, Hose Barb, Sanitary Flange
DIMENSIONS (NOMINAL)	
Lengths Available	3.5-5.0” (9-13 cm) 7.6-9.1” (19-23 cm) 11.5-13.0” (29-33 cm)
Diameter	3.5 in (9 cm)
Effective Filtration Area	0.8 ft² (748 cm²) 3.0 ft² (2806 cm²) 5.9 ft² (5500 cm²)
OPERATING CONDITIONS	
Max Forward Differential Pressure	80 psi (5.5 bar) @ 70°F (21°C) in Liquid 55 psi (3.8 bar) @ 70°F (21°C) in Gas
Max Reverse Differential Pressure	60 psi (4.1 bar) @ 70°F (21°C)
Max Operating Temperature	110°F (43°C) at ≤30 psi (2.1 bar)

Regulatory Compliance:
Manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations.

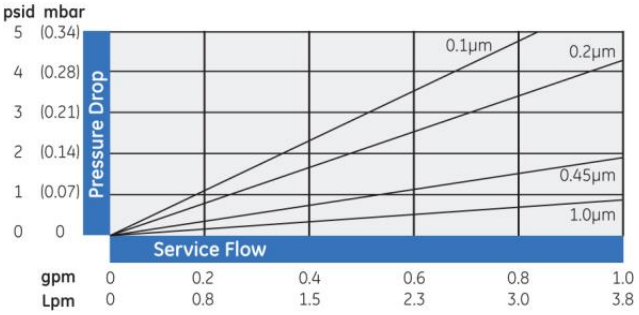

Figure 1. Small capsule flow rate performance in clean water.

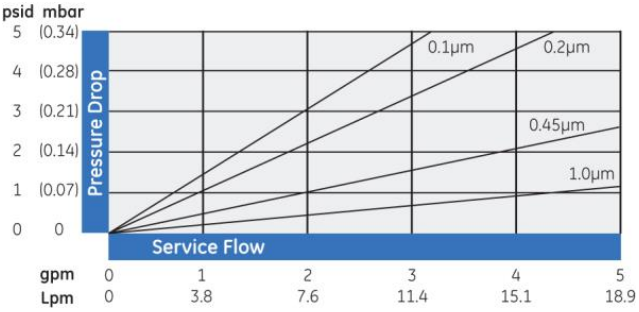

Figure 2. Medium capsule flow rate performance in clean water.

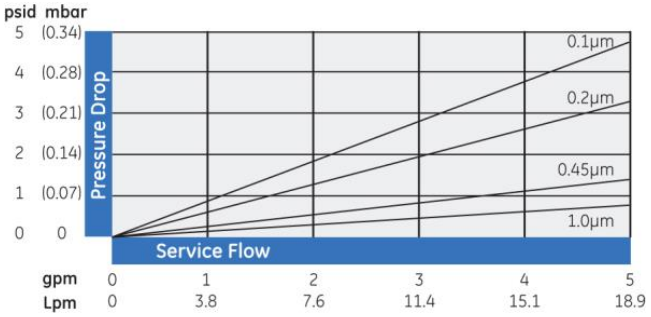

Figure 3. Large capsule flow rate performance in clean water.

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