STERLITECH

Polypropylene Capsule Filters

Polypropylene Capsule Filters have a broad chemical compatibility. Constructed with high purity polypropylene membranes, hardware, and supports, they are ideal for the filtration of aggressive gases, liquids, and solutions from a wide variety of chemical and engineering processes.

FEATURES AND BENEFITS

- High flow, highly hydrophobic polypropylene membrane
- Ideal extractables, high throughput, long service life
- 100% polypropylene construction
- Individually integrity tested during manufacturing

APPLICATIONS

- Etchants
- Photoresists
- Developers
- Solvents
- Acids
- Bases
- Fine Chemicals
- Vent/Process air filtration

PRODUCT DESCRIPTION

Sterlitech Polypropylene filter capsules may be sanitized with a variety of commonly used chemical agents. The capsules may be repeatedly autoclaved for up to 5 cycles.

Sterlitech certifies that the materials contained in its Polypropylene Capsule filters meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR.

Sterlitech 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. Available in absolute micron ratings of 0.1 and 0.2.

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MATERIALS OF CONSTRUCTION	
Membrane	Hydrophobic Polypropylene
Membrane Supports	Polypropylene Microfiber
Cage, Core, End Caps	Polypropylene
Fitting Connections	MNPT, FNTP, Compression, Flare, 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	0.8 ft2 (748 cm2) 3.0 ft2 (2806 cm2) 5.9 ft2 (5500 cm2)
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.

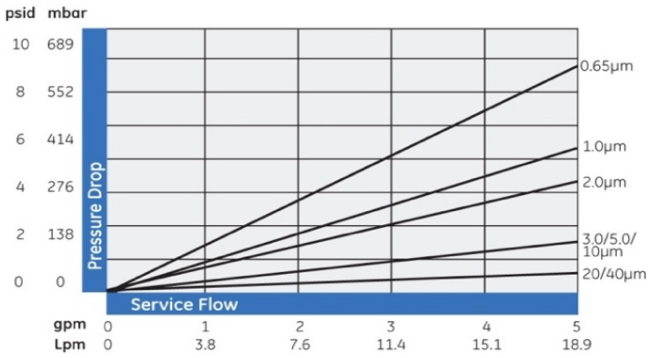

Figure 1. Small capsule flow rate performance in clean water.

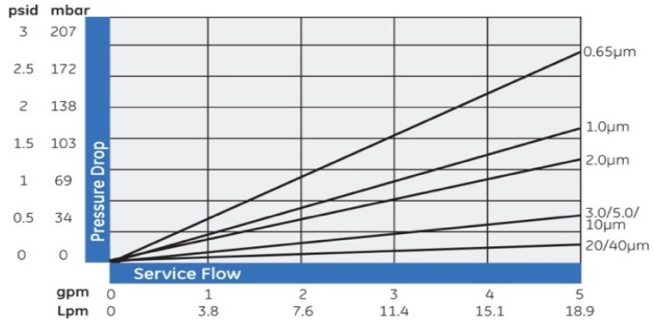

Figure 2. Medium capsule flow rate performance in clean water.

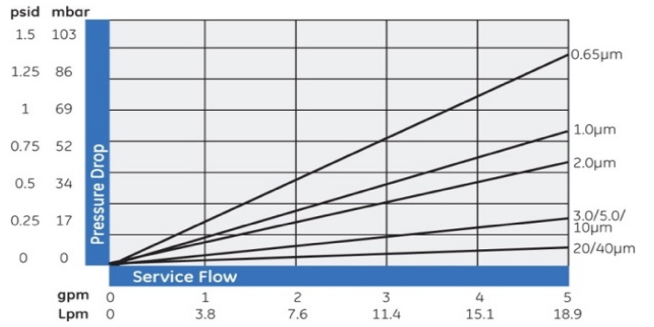

Figure 3. Large capsule flow rate performance in clean water.

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