

Capsule-Clear™ PES Pleated Filters

High Surface Area Pleated PES Capsule Filters for Lab Scale and Small Volume Applications



Description

Capsule-Clear PES Pleated Filters are intended for applications where sterile filtration or bio-burden reduction cannot be compromised. Purolator Liquid Process has designed the Capsule-Clear line to provide the retention, reliability, and robustness required for the Pharmaceutical and Bio-tech industries.

Capsule-Clear PES Filters are manufactured to the most current quality standards. The asymmetric PES membrane is low protein binding; offers high flow rates and throughputs; and is compatible with a broad pH range. The capsule vent and drain are placed to allow easy handling and to minimize retained gas at the top and product hold-up volumes at the base.

Capsule-Clear PES filter capsules comply with the operating requirements of the Bio-tech and Pharmaceutical industry. Purolator's capsules are assembled in a Class 10,000 Clean Room and are 100% diffusional flow integrity tested to ensure absolute retention as correlated to a liquid bacterial challenge. All materials of construction meet the requirements of USP Class VI and are FDA listed for food and beverage contact per 21 CFR. Purolator offers Microbial, Biological, and Pharmaceutical grade PES Capsule-Clear filters. The Pharmaceutical Grade is fully flushed during the manufacturing process and tested by our laboratory to ensure that the extractable endotoxin level is below 0.125 EU/mL. A Certificate of Conformance is provided upon request for the Pharmaceutical Grade capsules.

Features and Benefits

- Asymmetric PES membrane for high flow rates and throughput
- Absolute bacterial retention for assured process sterility
- 100% diffusional flow integrity tested
- Vent placed for ease of use and maximum venting
- Minimal hold-up volume
- Robust capsule construction for use up to 75 psi
- Three sizes available for use in lab scale, pilot scale, and production applications

Materials of Construction

Membrane	Asymmetric PES
Support Media	Polypropylene
Bell and Base	Polypropylene
Core and Endcaps	Polypropylene

Applications

- Buffers
- Blood
- Growth Media
- Ophthalmic Solutions
- Vaccines and Cell Culture
- WFI drops for Points of Use
- Sterile filtration of solvents and cleaning solutions

Compliance

	USP Class VI	FDA Listed Per 21 CFR
Filter Media	Pass	Yes
Support Media	Pass	Yes
Bell and Base	Pass	Yes
Core and Endcaps	Pass	Yes

Nominal Dimensions

Series	900	1700	3300
Diameter (inches)	3.0	3.0	3.0
Body Length (inches)	2.3	3.6	6.1
Filtration Area (cm ²)	900	1700	3300

Operating Conditions

Maximum Differential Pressure	Maximum Operating Temperature
75 psid (5.2 bar)	104 °F (40 °C)

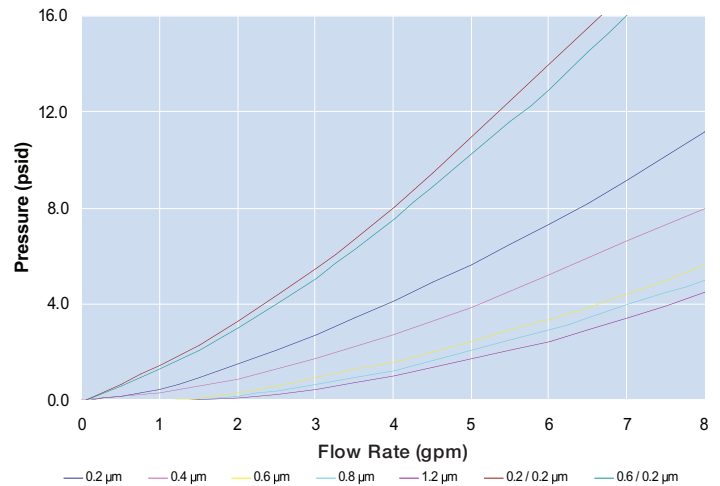
Autoclave

30 minutes	259 °F (126 °C)
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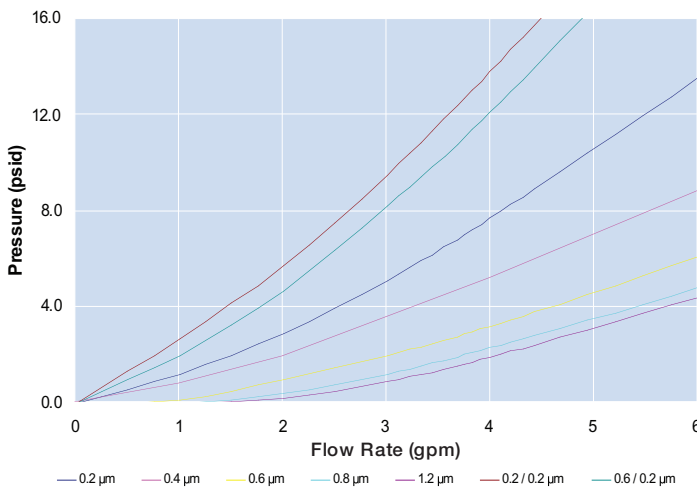
Water Flow Rate

Water Flow Rate

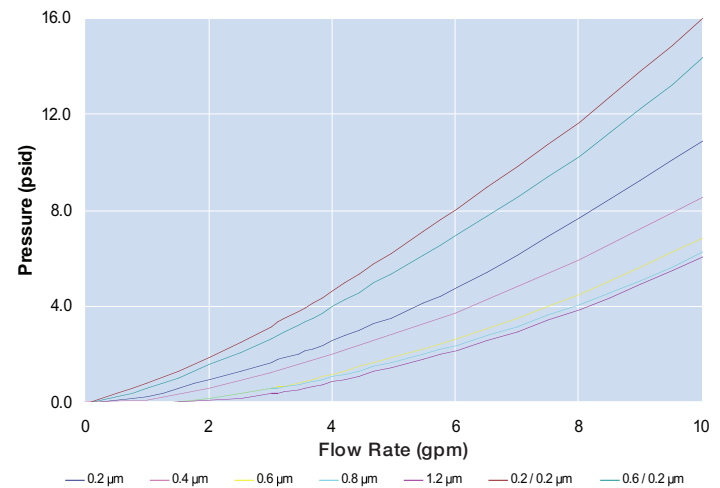
Capsule Flow Rate, 1700 Series



Capsule Flow Rate, 900 Series



Capsule Flow Rate, 3300 Series



Cartridge Selection Guide

Product	Media	Micron Rating	Series	Layers	Effective Filtration Area (cm ²)	Inlet Style	Outlet Style
W = Capsule	SM = PES	002 = 0.2 µm 004 = 0.4 µm 006 = 0.6 µm 008 = 0.8 µm 009 = 1.2 µm 022 = 0.2/0.2 µm 062 = 0.6/0.2 µm	S P = Pharmaceutical B = Biological M = Microbial	1 = Single Layer 2 = Double Layer	1 = 900 2 = 1700 3 = 3300	A = Tapered Hose Barb 3/8 inch B = Straight Hose Barb 1/2 inch C = 1/4 inch Male NPT E = 1 1/2 inch Sanitary Flange	A = Tapered Hose Barb 3/8 inch B = Straight Hose Barb 1/2 inch C = 1/4 inch Male NPT E = 1 1/2 inch Sanitary Flange

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