

The PureFlo® PES filter capsule in its all-polypropylene construction provides excellent chemical compatibility and superior flow per surface area as compared to other membrane capsules. PureFlo® PES Filter Capsules have been specially designed for sterilizing in biopharmaceutical applications. Its hydrophilic PES membrane does not require pre-wetting agents, thereby eliminating a potential source of contamination. The PES membrane is low protein-binding.

The capsules were designed for simple and efficient filtration of small volumes used in low-flow application, laboratory, and pilot runs. No adhesives, binders, or surfactants are used in the manufacturing process of these capsules. They are rinsed with pyrogen-free water to reduce extractables and downtime. All filter capsules are 100% integrity-tested to ensure filter performance each and every time out of the package. PureFlo PES filter capsules are well-suited for pharmaceutical applications where superior flow and bacterial retention is required. The capsule can be ordered pre-sterilized.



SPECIFICATIONS

Regulatory Compliance

Manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations and USP Class VI Biological test for Plastics

Bacterial Retention

Complete retention of $\geq 10^7$ organisms/cm² of *Brevundimonas diminuta* in accordance with the current HIMA challenge methodology (ASTM F838-83). Validation Guide upon request.

Autoclavable & Sanitizable

Capsules can be autoclaved up to 25 times at 125°C for 30 minutes or chemically sanitized in situ using common sanitizing agents such as hot water at 90°C for a limited time (dependent on time and temperature).

Water Bubble Point Specification

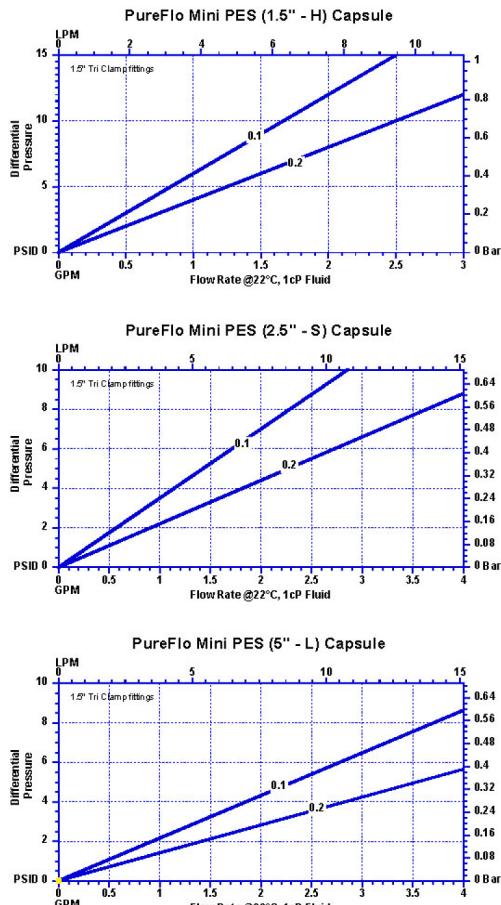
0.1um : 23psi, 0.16 MPa (IPA)
 0.2um : 47psi, 0.32 MPa

Bacterial Endotoxin

Effluent is non-Pyrogenic per USP Bacterial Endotoxin (0.25 EU/ml), determined using Limulus Amebocyte Lysate (LAL) test.

Applications	
Culture Media	Fermentation Broths
Serums	SVP (Small volume parenterals)
Vaccines	Product Sterilization
Reagents & Buffers	Biologics
Antibiotics	Beverages
WFI-POU	Scale-up processes

Features	Benefits
■ Hydrophilic PES Membrane	<ul style="list-style-type: none"> ■ Inherently hydrophilic for cleaner filtrates ■ High flow rate reduces processing time ■ Low protein-binding membrane maximizing yields ■ Biologically inert membrane ■ Bacterial retentive to produce sterile solutions
■ Small, Compact Design	<ul style="list-style-type: none"> ■ Simple, quick, and efficient filtration ■ Low hold-up volume reduces product waste
■ Low Filter Extractables	<ul style="list-style-type: none"> ■ No adhesives, binders, or surfactants are used during manufacturing resulting in superior downstream cleanliness ■ All capsules are rinsed with pyrogen-free water



Note - Graphs based on Sanitary fittings.

PureFlo PES Filter Capsule (Pharmaceutical grade) Ordering Guide

PureFlo Capsule Filters	Vent & Drain Fitting	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Vent/Drain - Valve O-ring Material	Option
70mm Diameter Capsule	L = Female Luer Lock P = M8 Threaded Plug - Limited options V = Bleed Valve N = No vent or drain fittings	S = PES	004 = 0.04um 010 = 0.1um 020 = 0.2um 050 = 0.45um 065 = 0.65um 080 = 0.8um 120 = 1.2um	H = 1.5" S = 2.5" L = 5" K = 10"	1H = 1/8" Hose barbs 1NF = 1/8" FNPT 1QF = 1/8" Female Quick Coupling with Metal latch 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Female Quick Coupling with Metal latch 2QFP = 1/4" Female Quick Coupling with Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp	1H = 1/8" Hose barbs 1NF = 1/8" FNPT 1QF = 1/8" Female Quick Coupling with Metal latch 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Female Quick Coupling with Metal latch 2QFP = 1/4" Female Quick Coupling with Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp	Blank = For Luer lock or Plug Blank = Silicone 9 = EPDM 8 = Buna N 7 = Fluoro-Elastomers	Blank = Polypro construction -PH = Pharma Grade -E = Polyethylene Shell -GP = Gamma stable polypropylene shell -NV = Nylon Construction -FB = Filling bell -ETO = Ethylene oxide -NI = No vent or drain inlet fitting -NO = No vent or drain outlet fitting -G(pore Size) = Glass Fiber PreFilter -P(pore Size) = PolyPro Media PreFilter -S(pore Size) = PES PreFilter

Example - Capsule, Luer Lock V/D, 2.5", Internal filter, 0.2 micron PES Capsule, Pharma Grade, with 1.5" Tri-Clamp fittings would be SKLS020STCTC-PH

Quick Couplings are molded. Female Quick Coupling with Plastic latch will be threaded on, compatible with C/P/C (Colder), Link Tech and others.



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