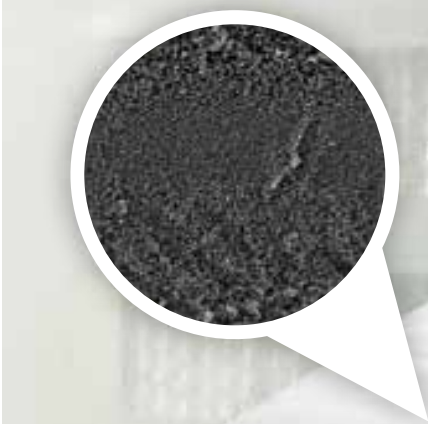
PoreFilter

SUREPORE PES MEMBRANE FILTER CARTRIDGE

PES Membrane - Sterile Liquid Filter

SurePore PES Filter Cartridges are specially designed to provide a reliable sterilizing solution at an economical cost. Hydrophilic PES membrane cartridges require no pre-wetting and are ready to use. In addition, these filters provide excellent performance in pharmaceutical applications.



FEATURES AND BENEFITS

- Low diffusion flow
- Inherently hydrophilic PES membrane
- High surface area provides excellent flow rates and extended service life while maintaining high bacteria removal efficiency
- Low protein binding

QUALITY STANDARDS

- Bacterial quantitative retention of 107 CFU/ cm2 Brevundimonas Diminuta (ATCC 19146) according to ASTM F838 methodology.
- 100% Integrity testing in manufacturing.
- Each filter is fully traceable with unique serial number.
- Manufactured in a facility which adheres to ISO 9001:2015 Practices.
- Full Regulatory Compliance with followign:

- Bacterial Endotoxin: Aqueous extraction of autocalved filter contains <0.25 EU/ml as determined by Limulus Amebcyte Lysate (LAL), USP <85>.
- Non-fiber Releasing: Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR 210.3(b)(6).
- Component Material Toxicity:
- Meet the requirement of USP <87> In Vitro Cytotoxicity Test;
- Meet the Criteria of USP <88> Biological Reactivity Test for Class VI-121°C plastics.
- TOC/Conductivity at 25°C: Autoclaved filter effluent meet the USP <643> for Total Organic Carbon and USP <645> for Water Conductivity per WFI requirements after a UPW flush of specified volume.
- Particle Shedding: Autoclaved filter effluent meet the USP <788> for large volume injections.
- Indirect Food Additive: All component materials meet the FDA indirect Food Additive requirements cited in 21 CFR 177-182, and EU framework regulation [1935/2004/EC]

TYPICAL APPLICATIONS

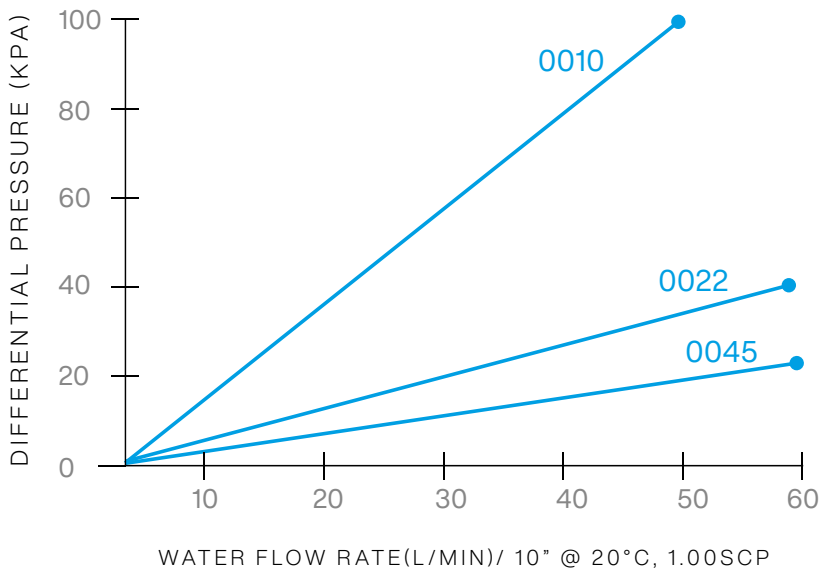
ANTIBIOTCS

LVP & SVP

LARGE BATCH SOLUTIONS

CLEANING & DISINFECTING LIQUIDS

FLOW RATE CHARACTERISTICS



MATERIALS OF CONSTRUCTION	
Filter Media	PES Membrane
Cage/Support	Polypropoylene
Core/End Caps	Polypropoylene

STERILIZATION	
Inline Steam Sterilization	up to 100 cycles (135°C for 30min < 0.3 bar per cycle)
Autoclave	up to 200 cycles (130°C for 30min per cycle)

INTEGRITY TEST DATA	
Bubble Point	BP: ≥ 0.32 MPa (water), 0.22 µm BP: ≥ 0.20 MPa (water), 0.45 µm
Diffusion Flow	DF: ≤ 25 ml/min/10" @ 0.275 Mpa, 0.22 µm DF: ≤ 25 ml/min/10" @ 0.15 Mpa, 0.45 µm

OPERATING CONDITIONS		
Max. Operating Pressure		6.9 bar (100 psi) at 25°C
		4.0 bar (58 psi) at 60°C
		2.4 bar (35 psi) at 80°C
Max. Differential Pressure	Forward	6.9 bar (100 psi) at 25°C
		4.0 bar (58 psi) at 60°C
		2.4 bar (35 psi) at 80°C
	Reverse	3.0 bar (44 psi) at 25°C
		1.0 bar (15 psi) at 80°C
Effective Filtration Area		0.58m² / ϕ 69-10inch

ORDERING INFORMATION					
PFSHR	Removal Ratings	End Cap	Minimal Length	Seal Material	-P
	0010 =0.10µm	HSF = 226/Fin (PBT Insert)	05 = 5"	S = Silicone	
	0022 =0.22µm	HSC = 226/Flat (PBT Insert)	10 = 10"	E =EPDM	
	0045 =0.45µm	HTF = 222/Fin (PST Insert)	20 = 20"	V = Viton	
		HTC = 222/Flat (PBT Insert)	30 = 20"	P = PFA/Viton	
		DOE = Double Open End	40 = 20"		

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