SteriPS® Filter Cartridges

PES Membrane·Sterile Liquid Filter

SteriPS® 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 10^7 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 following :
  - •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℃ plastics
  - •TOC/Conductivity at 25 ℃: 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].

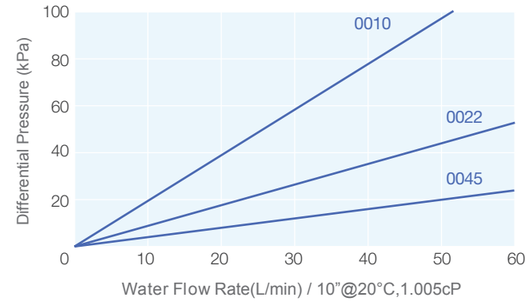
Typical Applications

- Antibiotics
- LVP & SVP
- Large Batch Solutions
- Cleaning & Disinfecting Liquids

Materials of Construction

Filter Media	PES Membrane
Cage/Support	Polypropylene
Core/End Caps	Polypropylene

Flow Rate Characteristics



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 69-10 inch

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

Ordering Information

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