

SHF Polysulfone Membrane Filter

Polysulfone (PSF)

High Throughput

Process Economics

Reduced Process Time



⊕ Product Introduction

Alioth SHF polysulfone (PSF) filters feature a highly asymmetrical polysulfone (PSF) membrane and pleated construction for high flow and low pressure drop. It has good high temperature resistance and wide chemical compatibility. It is suitable for pre- and final filtration of process cooling and deionized water, and is widely used in the pharmaceutical industry and chemicals.

⊕ Key Features and Benefits

- High flow, low differential pressure
- Wide chemical compatibility
- Excellent high temperature resistance

⊕ Typical Applications

- Pre-filtration and final filling filtration of chemicals
- Pre-filtration and final filling filtration in the pharmaceutical industry
- Pre-filtration and final filling filtration of process cooling water
- Pre-filtration and final filling filtration of deionized water

SHF Polysulfone Membrane Filter

Product Specifications - Alicap® Capsule Filters

		L300	L600	L02	L04	L5	L10	L20
Product Specifications	Body Diameter	67 mm	67 mm	72 mm	72 mm	85 mm	85 mm	85 mm
	Maximum Width	75 mm	75 mm	97 mm	97 mm	147 mm	147 mm	147 mm
	Maximum Length	98.5 mm	120 mm	161 mm	214 mm	220 mm	319 mm	569 mm
Materials of Construction	Membrane	Polysulfone (PSF)						
	Supporting Layer	Polypropylene (PP)						
	O-rings	Silicone						
	Core/Cage/End caps/Housing	Polypropylene (PP)						
Integrity Testing	Bubble Point	≥4000 mbar (58 psi) (wetted with H ₂ O, 20°C, compressed air) (0.2 μm)						
Working Characteristics	Maximum Differential Pressure	Forward: 5.0 bar (72.5 psi) @ 25°C/3.0 bar (43.5 psi) @ 80°C Reverse: 2.0 bar (29.0 psi) @ 25°C						
	Sterilization Resistance	Alicap® L300/L600/L02/L04: Autoclave(A&G): 131°C, 30 min, 3 cycles Gamma-compatible (G): 45 kGy *Capsule filters can't be sterilized by SIP, sterile type capsule filters can't be sterilized again			Alicap® L5/L10/L20: Autoclave(A&G): 131°C, 30 min, 5 cycles Gamma-compatible (G): 45 kGy *Capsule filters can't be sterilized by SIP, sterile type capsule filters can't be sterilized again			
	Effective Filtration Area	200 cm ²	400 cm ²	0.12 m ²	0.24 m ²	0.3 m ²	0.6 m ²	1.2 m ²
	Pore Size	0.2 μm/0.45 μm						
	Biological Safety	All construction components meet the biological safety requirements referring to USP<88> Class VI plastic and USP<87>						
	Indirect Food Additive	All component materials meet the requirements of Indirect Food Additive cited in EU 1935/2004/EC and FDA 21 CFR 177-182						
	Cleanliness	Meets the requirements for a 'non-fiber releasing' filter defined in FDA 21 CFR 211.72 and 210.3 (b) (5) (6), and particulate matter meets the requirements of USP<788>						
	Endotoxin	Endotoxin<0.25 EU/mL by LAL test method, which complies with the requirements of USP<85>						
	TOC/Conductivity	TOC<0.5 mg/L, Conductivity<1.3 μS/cm						
	Manufacturing Integrity	100% integrity test passed						
	Manufacturing Environment	Manufactured in conformance with cGMP						

Ordering Information

Format	Membrane material	Membrane series	Pore size	Length
K=L-type Capsule	S=PSF	A=A series	02=0.2 μm 04=0.45 μm	S2: Alicap® L300 S3: Alicap® L600 M1: Alicap® L02 M3: Alicap® L04 5: Alicap® L5 1: Alicap® L10 2: Alicap® L20
Capsule connector	O-ring	Package	Sterilization	
T1: 38 mm(1 1/2") Sanitary flange inlet and outlet T3: 19 mm(3/4") Sanitary flange inlet and outlet B5: 13 mm(1/2") Multistage hose inlet and outlet B6: 7-13 mm(1/4"-1/2") Hose barb inlet and outlet B7: 6 mm(1/4") Multistage hose inlet and outlet	S=Silicone	1=1/PK	A=Autoclavable G=Gamma compatible S=Sterile	

Connector:

Alicap® L300/L600, available with B6 Connector; Alicap® L02/L04, available with T1, T3, B5, B7 Connector; Alicap® L5/L10/L20, available with T1 Connector.

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⊕ Product Specifications - Cartridge Filters

Product Specifications	Nominal Dimensions	5 inch	10 inch	20 inch	30 inch
		69 mm*5"	69 mm*10"	69 mm*20"	69 mm*30"
Materials of Construction	Membrane	Polysulfone (PSF)			
	Supporting Layer	Polypropylene (PP)			
	O-rings	Silicone, Ethylene propylene diene monomer (EPDM) 、FEP/PFA encapsulated O-rings			
	Core/Cage/End caps/Adaptor	Polypropylene (PP)			
Integrity Testing	Bubble Point	≥4000 mbar (58 psi) (wetted with H ₂ O, 20°C, compressed air) (0.2 μm)			
	Maximum Differential Pressure	Forward: 5.0 bar (72.5 psi) @ 25°C/3.0 bar (43.5 psi) @ 80°C			
		Reverse: 2.0 bar (29.0 psi) @ 25°C			
	Effective Filtration Area	0.3 m ²	0.6 m ²	1.2 m ²	1.8 m ²
	Pore Size	0.2 μm/0.45 μm			
	Biological Safety	All construction components meet the biological safety requirements referring to USP<88> Class VI plastic and USP<87>			
	Indirect Food Additive	All component materials meet the requirements of Indirect Food Additive cited in EU 1935/2004/EC and FDA 21 CFR 177-182			
	Cleanliness	Meets the requirements for a 'non-fiber releasing' filter defined in FDA 21 CFR 211.72 and 210.3 (b) (5) (6), and particulate matter meets the requirements of USP<788>			
Working Characteristics	Endotoxin	Endotoxin<0.25 EU/mL by LAL test method, which complies with the requirements of USP<85>			
	TOC/Conductivity	TOC<0.5 mg/L, Conductivity<1.3 μS/cm			
	Manufacturing Integrity	100% integrity test passed			
	Manufacturing Environment	Manufactured in conformance with cGMP			

⊕ Ordering Information

Format	Membrane material	Membrane series	Pore size	Length	Cartridge adaptor
C=Cartridge	S=PSF	A=A series	02=0.2 μm 04=0.45 μm	0=2.5 inch 5=5 inch 1=10 inch 2=20 inch 3=30 inch	7=226, Spearhead with fins 2=226, Flat end with fins 8=222, Spearhead with fins 3=222, Flat end with fins 9=215, Spearhead with fins 4=215, Flat end with fins
O-ring	Package				
S=Silicone T=EPDM B=FEP/PFA encapsulated O-rings	1=1/ PK 3=3/PK(20&30 inch)	A			