

Aligard® PHF High-Performance PP Clarifying Filter

Polypropylene (PP)

High Dirt-Holding Capacity

Clarification Filtration

Process Economics



⊕ Product Introduction

Polypropylene (PP) membrane is suitable for depth filtration with stable physical and chemical properties and strong pressure resistance. Alioth prefilters are made of PP with high porosity and strong dirt-holding capacity. The filters are ideal for removing particles and microorganisms from a broad range of challenging pharmaceutical liquids in prefiltration process.

⊕ Key Features and Benefits

- Excellent chemical capability
- High retention efficiency
- High flow rate and low flow differential pressure
- No fiber releasing
- Robust with stable performance
- Stable performance and sturdy durability
- Traceable
- Resistance to multiple steam sterilization

⊕ Typical Applications

- Intermediate products prefiltration
- Blood products prefiltration
- Culture media prefiltration
- Prefiltration during the solution preparation process

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⊕ Product Specifications - Disc Filters

Product Specifications	Nominal Dimensions	69 mm
Materials of Construction	Membrane	Polypropylene (PP)
	Supporting layer/Housing	Polypropylene (PP)
Working Characteristics	Highest Working Temperature	60°C
	Max Inlet Pressure	3.5 bar (50 psi) @ 25°C
	Sterilization Resistance	Autoclave: 126°C, 30 min, 3 cycles
	Max Differential Pressure	Forward: 4.0 bar @ 25°C, 1.0 bar @ 60°C, Not applicable for Reverse Filtration
	Effective Filtration Area	19.6 cm²
	Pore Size	0.1 / 0.2 / 0.5 / 1.0 / 3.0 / 5.0 / 10 / 20 / 30 / 50 / 70 / 100 µm
	Connection Type	HB 7-13 mm
	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
	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>
	Biological Safety	All construction components meet the biological safety requirements referring to USP<88> Class VI plastic and USP<87>
	Quality System	Manufactured in a facility whose Quality Management System has been certified with ISO 9001
	Shelf Life	3 years at 10-35°C and below 70% humidity

⊕ Ordering Information

HAD	T P	0 1	D 5	H 6	A	1 0
Product HAD=Disc	Membrane Material TP=PP	Pore Size 01=0.1 µm 02=0.2 µm 04=0.5 µm 1 U= 1.0 µm 3 U= 3.0 µm 5 U=5.0 µm 10=10 µm 20=20 µm 30=30 µm 50=50 µm 70=70 µm 100=100 µm	Size D5=ID 50	Connection Type H6=7-13 mm HB	Sterilization A=Autoclavable	Package 10=10/PK

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⊕ Product Specifications - Capsule Filters

Product Specifications		1 inch	2 inch	4 inch	5 inch	10 inch	20 inch
Product Specifications	Membrane	Polypropylene (PP)					
	Supporting layer/Housing	Polypropylene (PP)					
	O-rings	Silicone					
Materials of Construction	Highest Working Temperature	60°C					
	Max Inlet Pressure	5.5 bar (80 psi) @ 25°C					
	Sterilization Resistance	Autoclave: 126°C, 30min, 3 cycles					
	Max Differential Pressure	Forward: 4.0 bar (58 psi) @ 25°C					
	Effective Filtration Area	0.04 m²	0.12 m²	0.24 m²	0.3 m²	0.6 m²	1.2 m²
	Pore Size	0.1 / 0.2 / 0.5 / 1.0 / 3.0 / 5.0 / 10 / 20 / 30 / 50 / 70 / 100 µm					
	Connection Type	HB 7-13 mm	TC 25 mm or TC 50 mm or HB 7-13 mm	TC 25 mm or TC 50 mm or HB 7-13 mm	TC 50 mm	TC 50 mm	TC 50 mm
	Biological Safety	All construction components meet the biological safety requirements referring to USP<88> Class VI plastic and USP<87>					
	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					
	Quality System	Manufactured in a facility whose Quality Management System has been certified with ISO 9001					
	Shelf Life	3 years at 10-35°C and below 70% humidity					

⊕ Ordering Information

HAK	T	P	0	1	0	2	0	1	S	A	1
Product HAK=Capsule	Membrane Material TP=PP	Pore Size 01=0.1 µm 02=0.2 µm 04=0.5 µm 1 U=1.0 µm 3 U=3.0 µm 5 U=5.0 µm 10=10 µm 20=20 µm 30=30 µm 50=50 µm 70=70 µm 100=100 µm	Size 01=1 inch 02=2 inch 05=5 inch 10=10 inch 20=20 inch 30=30 inch	Connection Type T2=25 mm TC H7=7-13 HB T5=50 mm TC	O-ring S=Silicone	Sterilization A=Autoclavable	Package 1=1/PK				

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⊕ Product Specifications - Cartridge Filters

Product Specifications		2.5 inch	5 inch	10 inch	20 inch	30 inch
	Nominal Dimensions	69 mm*2.5"	69 mm*5"	69 mm*10"	69 mm*20"	69 mm*30"
Materials of Construction	Membrane	Polypropylene (PP)				
	Supporting layer/Adaptor	Polypropylene (PP)				
	O-rings	Silicone, Ethylene propylene diene monomer(EPDM), FEP/PFA encapsulated O-rings				
Materials of Construction	Highest Working Temperature	80°C				
	Max Inlet Pressure	5.5 bar (80 psi) @ 25°C				
	Sterilization Resistance	Autoclave: 126°C, 30min, 30 cycles				
	Max Differential Pressure	Forward: 4.2 bar (60.9 psi) @ 23°C				
		Forward: 2.4 bar (34.8 psi) @ 80°C				
	Effective Filtration Area	0.12 m ²	0.25 m ²	0.5 m ²	1.0 m ²	1.5 m ²
	Pore Size	0.1 /0.2 /0.5 /1.0 /3.0 /5.0 /10 /20 /30 /50 /70 /100 µm				
	Adaptor Type	226/222				
	Biological Safety	All construction components meet the biological safety requirements referring to USP<88>				
		Class VI plastic and USP<87>				
Materials of Construction	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				
	Quality System	Manufactured in a facility whose Quality Management System has been certified with ISO 9001				
	Shelf Life	3 years at 10-35°C and below 70% humidity				

⊕ Ordering Information

HAC	T	P	0	1	0	2	7	S	A	1
Product HAC=Cartridge	Membrane Material TP=PP	Pore Size 01=0.1 μm 02=0.2 μm 04=0.5 μm 1 U=1.0 μm 3 U=3.0 μm 5 U=5.0 μm 10=10 μm 20=20 μm 30=30 μm 50=50 μm 70=70 μm 100=100 μm	Size 02=2.5 inch 05=5 inch 10=10 inch 20=20 inch 30=30 inch	Adaptor Type 7=226, Spearhead with fins 2=226, Flat end with fins 8=222, Spearhead with fins 3=222, Flat end with fins	O-ring S=Silicone T=EPDM B=FEP/PFA encapsulated O-rings	Sterilization A=Autoclavable	Package 1=1/PK			