



mdi Polyethersulfone (PES) Membrane Cartridge filters Type *AseptiSure KS* are serial filtration devices with a layer Pore size upstream PES membrane layer to protect the downstream final PES membrane layer from Premature clogging and to give enhanced throughputs, thus resulting in better economics.

mdi *AseptiSure KS* filters are validated for key performance parameters such as retention efficiency, chemical compatibility, extractables, heat stability and flow rates. These are available in a variety of pore sizes to suit specific microfiltration needs in critical and specialized process applications.

Special Features

- Large filtration area
- High throughputs
- Long service life
- Pre-flushed to minimize particulate release after installation
- Non-toxic material of construction
- Multiple autoclavable
- Heat sealed, no glues or adhesives
- Low protein binding

Applications

- Sterile liquid filtration
- Filtration of proteinaceous liquid where minimum protein loss is desired, such as sera, culture soups and recombinant proteins, antibodies etc.
- Filtration of media, buffers etc.
- Water filtration

Microbially Validated as per ASTM F 838-05

Complies with USDFA 21 CFR 210.3(b)(6)

Meets and Exceeds USDFA 21 CFR 177.1520

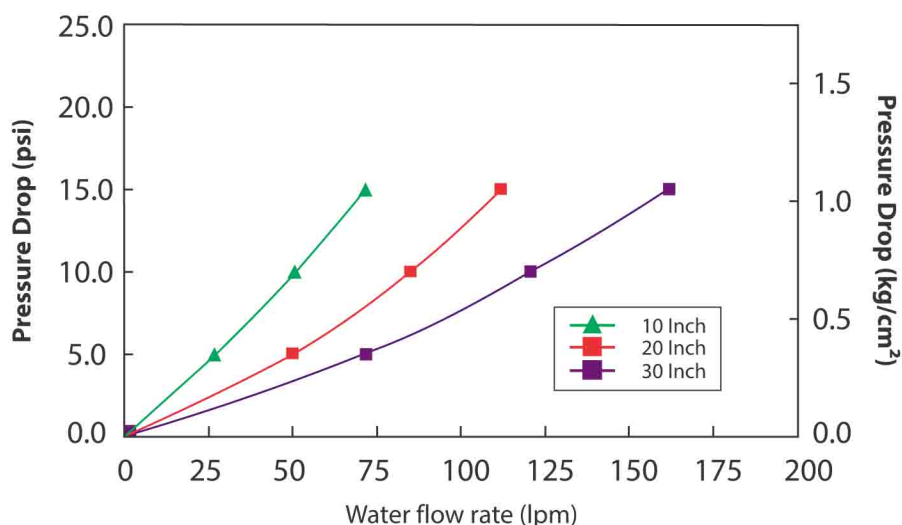
Specifications

Construction				
Final Filter Pore Size	0.2µm		0.45µm	
Pre-filter Pore Size	0.8 µm, 0.65 µm, 0.45 µm		0.65 µm, 0.8 µm	
Membrane	Hydrophilic PES			
Support Layers	Polyester			
Body and Core	Polypropylene			
Integrity Testing / Retention				
Bubble Point	> 50psi (3.51Kg/cm ²) with Water		> 30psi (2.11Kg/cm ²) with Water	
Air Diffusion Flow (10")	< 30ml/min @ 37 psi (2.6Kg/cm ²) with Water		< 35ml/min @ 22 psi (1.54Kg/cm ²) with Water	
Microbial Retention	LRV >7 for <i>Brevundimonas diminuta</i> (ATCC 19146) per cm ²		LRV >7 for <i>Serratia marcescens</i> (ATCC 14756) per cm ²	
Size				
Size	5"	10"	20"	30"
Effective Filtration Area (Nominal)	3000cm ²	6000cm ²	12000cm ²	18000cm ²
Operational				
Max. Operating Temperature	80 °C @ < 2 Kg/cm ² (30 psi)			
Max. Differential Pressure	3.5 Kg/cm ² (50 psi) @ 25 °C			
Reverse Pressure	< 0.7 Kg/cm ² (10 psi) @ 25 °C			
Typical Water Flow Rates (10")	40 lpm @ 0.70 Kg/cm ² @ 27 °C		55 lpm @ 0.70 Kg/cm ² @ 27 °C	
Sterilization	Autoclavable/In-line steam sterilizable at 121 °C for 30 minutes, 25 cycles			

Assurance	
Toxicity	Passes Bioreactivity test, In Vivo, as per USP <88> for Class VI plastics
Cytotoxicity	Passes Biological Reactivity Tests, In Vitro, USP <87> for cytotoxicity
Bioburden	Bioburden level is < 1000 cfu/filter device as per ANSI/AAMI/ISO 11737-1 : 1995
Bacterial Endotoxin	Aqueous extracts exhibit < 0.25 EU/ml as established by Limulus Amebocyte Lysate (LAL) Test
Non Fiber Releasing	Passes test as per USP and comply with USFDA 21 CFR Part 210.3(b)(6) for fiber release
pH Compatibility	Compatible with pH range of 1 - 10
Extractables with WFI	Passes test as per USP
Oxidizable Substances	Within limits as specified in USP
Particle Shedding	Passes USP test for particulates in injectables.
TOC/Conductivity at 25 °C	Meets the WFI requirements of USP <643> for Total Organic Carbon and USP <645> for Water
Indirect Food Additive	All Polypropylene components meet the FDA Indirect Food Additive requirements cited in 21 CFR 177.1520
Good Manufacturing Practice	These products are manufactured in a facility which adheres to Good Manufacturing Practices.
Quality Management System	ISO-9001:2008 Certified
USFDA	DMF No. 015554

Water Flow Rates

0.2 µm AseptiSure KS Cartridge Filters



Ordering Information

Type		Size		Pore Size		Adaptor		Elastomer		Sterility		Pack Size	
	Code	Length and filtration Area	Code		Code		Code		Code		Code		Code
CPPKS (0.8 µm) Upstream Layer	CPK5	5" (3000 cm ²)	53	0.2 µm	01	7P	A0	Silicone	SS	Non Sterile	1	1	01
CPPKS (0.65 µm) Upstream Layer	CPK3	10" (6000 cm ²)	54	0.45 µm	02	'0'	D0	EPDM	SE				
CPPKS (0.45 µm) Upstream Layer	CPKX	20" (12000 cm ²)	55					Viton	SV				
		30" (18000 cm ²)	56					FEP Encapsulated Viton	FV*				

* FV is available in Adapter Code A0 (7P) only

Example

CPKX	56	01	A0	SS	1	01
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