

EFFICIENT STERILE-GRADE SERIES

SPB Sterile-Grade Capsule Filter with Low Protein Binding and High Flux

Description

SPB series capsule filter is made of asymmetric PES membrane. With ultra-low protein binding and dissolution/precipitation levels, it can provide stable and reliable terminal sterilization filtration performance. It has passed the batch verification of typical bacterial removal ratings in the industry, and its sterilization ability LRV>7.

SPB series capsule filter is available in a wide range of cages and connections, and can be customized with double-layer PES filter membrane configurations according to customer needs, ensuring reliable sterilization ability and longer service life of the filter cartridge.



Features

- Strong chemical compatibility
- High Flux, low protein binding
- Proven sterile-grade filter element
- Ultra-low dissolution/precipitation
- Customizable double layer membrane configuration
- Various cages and connections are available

Applications

- Sterilization filtration of water for injection, cleaning solution, purified water, deionized water
- Sterilization filtration of LVP, APIs, buffers, eye drops, disinfectants, etc.
- Sterilization filtration of vaccines, serums, biological products, antibiotic water-based liquid, etc.

Technical Parameters

Materials of Construction	Filter Membrane	PES	
	Support/Drainage	PP	
	Core/Cage/End Cap	PP	
	Capsule Shell	PP	
Filtration Area	C30 / C80/ C150 / C300	250cm²/ 500cm²/ 1000cm²/2100cm²	
	C605 / C610 / C620 / C630	3200cm²/6500cm²/13000cm²/19500cm²	
Filter Dimensions	Length of Inner Filter Cartridge	C30 / C80/ C150 / C300	1.5"/ 1.5"/ 2.5"/ 5"
		C605 / C610 / C620 / C630	5"/ 10"/ 20"/ 30"
	Diameter of Inner Filter Cartridge	C30*/ C80 / C150 / C300	42mm*/56mm
		C605 / C610 / C620 / C630	68mm
Sterilisation	Autoclave	C30* / C80 / C150 / C300	60±2mm*/72±2mm
		C605 / C610 / C620 / C630	108±2mm
	Gamma Irradiation	25 kGy(Recommended)	
Biological Safety	Bio-compatibility	Meet USP <87> in vitro Cytotoxicity Test	
		Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics	
	Endotoxins	<0.25EU/ml	

*Only applicable to C30

Ordering Information

	Capsule Filter Size	Inlet/Outlet	Material	Removal Ratings	Sterilization
	C80	N2	PESB	010	
FilterPod SPB Series	C30* C80 C150 C300	N2*=1/4" NPT N3=3/8" NPT N4=1/2" NPT NF2=1/4" FNPT NF3=3/8" FNPT NF4=1/2" FNPT NH2*=1/4" NPT to 1/4" Hosebarb H2M=1/4" Multiple Hosebarb H3M=3/8" Multiple Hosebarb H3=3/8" Hosebarb H4=1/2" Hosebarb HC=1/4"-3/8" Stepped Hosebarb HS=1/4"-1/2" Stepped Hosebarb TCA=1" Tri-clamp (50.5mm) TCB=1/2" Tri-clamp(25.4mm)	PESB= Polyether -sulphone	010=0.10µm 020=0.20µm 045=0.45µm C10=0.10µm+0.45µm C20=0.20µm+0.45µm D45=0.45µm+0.65µm	Blank=Non-sterile (Autoclavable) -T=Non-sterile (γ-irradiated, Gamma irradiation maximum dosage: Up to 25 kGy) -G=Sterile (γ-irradiated, Gamma-compatible to 25 kGy) -O=Sterile (Ethylene Oxide)**
MedCap SPB Series	C605 C610 C620 C630	TCA =1 1/2" Tri-clamp(50.5mm)			

*C30 is only applicable to N2 and NH2, where NH2 is only applicable to C30;

**EO sterilization will incur the cost of residual validation

Double layer membrane non-standard combinations can be made according to customer needs.