

EFFICIENT STERILE-GRADE SERIES



FDG Sterile-Grade Capsule Filter with Higher Removal Efficiency

Description

FDG series capsule filter is made of double-layer sterile-grade PTFE membrane, which has higher retention efficiency and can meet the requirements of phage retention and other harsh conditions to provide extremely reliable sterility guarantee for gases. Its removal ratings of typical bacteria in the industry have been verified by batches, and its sterilization ability $LRV > 7$.

FDG series capsule filter is available in a wide range of cages and connections, and at the same time have good heat tolerance, can with stand hot water disinfection and steam sterilization for a long time.



Features

- Extensive chemical compatibility
- High sterilization efficiency
- High reliability
- Water intrusion test can be used
- Various cages and connections are available

Applications

- Sterilization filtration of compressed air, nitrogen
- Sterilization of fermentation tank, batching tank and breathing filter
- Filtration of aseptic packaging gas
- Sterilization filtration of solvents and disinfectant

Technical Parameters

Materials of Construction	Filter Membrane	Double layer PTFE	
	Support/Drainage	PP	
	Core/Cage/End Cap	PP	
	Capsule Shell	PP	
Filtration Area	C30 / C80/ C150 / C300	300cm ² / 500cm ² / 1000cm ² /2100cm ²	
	C605 / C610 / C620 / C630	3700cm ² /7400cm ² /14800cm ² /22200cm ²	
Filter Dimensions	Length of Inner Filter Cartridge	C30 / C80/ C150 / C300 C605 / C610 / C620 / C630	1.5"/ 1.5"/ 2.5"/ 5" 5"/ 10"/ 20"/ 30"
	Diameter of Inner Filter Cartridge	C30*/ C80 / C150 / C300 C605 / C610 / C620 / C630	42mm*/56mm 68mm
	Diameter of the Shell	C30*/ C80 / C150 / C300 C605 / C610 / C620 / C630	60±2mm*/72±2mm 108±2mm
Sterilization	Autoclave	124°C,30min, 5cycles 134°C,20min, 5cycles	
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	PTFEDG	010	
FilterPod FDG 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)	PTFEDG= Polytetrafluoroethylene	010=0.10+0.10µm 020=0.20+0.20µm 045=0.45+0.45µm	Blank=Non-sterile (Autoclavable) -O=Sterile *
MedCap FDG Series	C605 C610 C620 C630	TCA =1 1/2" Tri-clamp(50.5mm)			

*EO sterilization will incur the cost of residual validation



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