

FluoroPV[®] Filter Cartridges

PVDF Membrane·Sterile Liquid Filter

COBETTER FluoroPV[®] Filter Cartridges are composed of a unique hydrophilic polyvinylidene fluoride (PVDF) membrane characterized by low extractable and protein binding. They are suitable for the sterilized filtration of pharmaceutical liquids including ophthalmic liquids, biological and other diluted preservative solutions.

Features and Benefits

- Low extractable and protein binding
- Broad chemical compatibility and temperature resistance
- Excellent durability proven by testing forward/reverse pulse up to 100x

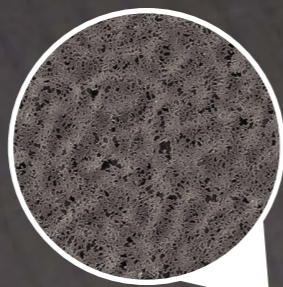
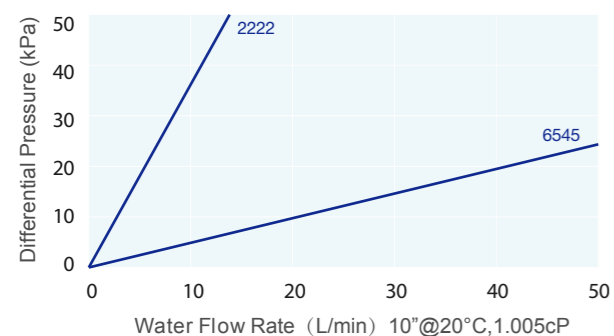
Quality Standards

- Integrity Test correlates to ASTM F838-05 Bacterial Challenge Test (BCT)
- Each filter is individually Integrity Tested prior to leaving the factory
- Each filter is Fully Traceable with a unique serial number
- Designed, developed and manufactured in compliance with ISO9001
- Full Regulatory Compliance with the following:
 - 21CFR.210.3(b)(5)(6), 211.72 for Non-Fiber Release
 - Endotoxins: <0.25EU/ml/10inch filter
 - USP <88> Plastic Class VI-121°C
 - FDA 21 CFR177-182 & EU 1935/2004/EC

Typical Applications

- Antibiotics
- Aggressive Solvents
- Biological Agents
- Blood Products
- Chemicals
- Cold and Hot WFI
- Ophthalmic Solutions
- Sanitizing Agents

Flow Rate Characteristics



Materials of Construction

Filter Media	LHPVNDR: Single-Layer Hydrophilic PVDF Membrane DLHPVNDR: Double-Layer Hydrophilic PVDF Membrane
Support	Polypropylene
Cage/Core/End Caps	Polypropylene

Operating Conditions

Max. Temperature	90°C
Max. Differential Pressure	4.5 bar / 21°C (forward) 2.4 bar / 90°C (forward)
Effective Filtration Area	0.58m ² / Ø 68-10 inch

Sterilization

Inline Steam Sterilization (LHPVNDR & DLHPVNDR)	Forward : up to 30 cycles (135°C for 30min@30kPa per cycle) Reverse : up to 30 cycles (135°C for 30min@30kPa per cycle)
Autoclave (LHPVNDR & DLHPVNDR)	up to 30 cycles (130°C for 30min per cycle)

Integrity Test Data

Bubble Point	BP : ≥ 0.32 MPa(water), LHPVNDR (0.22 µm)
Diffusion Flow	DF : ≤ 20 ml/min/10" @ 0.28 MPa, LHPVNDR (0.22 µm)

Ordering Information

LHPVNDR	Removal Ratings	End Cap	Nominal Length	Seal Material	-P
[Single-Layer]	0010=0.10µm	HSF=226 /Fin (PBT Insert)	05= 5"	S=Silicone	
	0022=0.22µm	HSC=226 /Flat (PBT Insert)	10=10"	E=EPDM	
	0045=0.45µm	HTF=222 /Fin (PBT Insert)	20=20"	V=Viton	
	0065=0.65µm	HTC=222 /Flat (PBT Insert)	30=30"		
	0100=1.0µm	DOE=Double Open End	40=40"		
DLHPVNDR	2222=0.22+0.22µm				
[Double-Layer]	2245=0.22+0.45µm				
	6545=0.65+0.45µm				

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Sterile Filtration
Bio-burden Reduction
Pre-Filtration
All-Fluorine Filters
Capsule Filters