

High protein permeation low adsorption sterilizing grade filter cartridge

ELV Series PVDF

Eternalwater ELV Series--Sterilizing filter cartridge, using hydrophilic polyvinylidene fluoride (PVDF) membrane, PVDF membrane has low protein adsorption performance and low extractables, especially suitable for filtration of sterile vaccines, biological reagents, culture media fluids, etc.

Product Features

- High protein permeability, low adsorption
- Low precipitation
- Good corrosion resistance, oxidation resistance, heat resistance
- 100% integrity tested ensures sterilization absolutely
- Widely chemical compatibility, PH working range 1-14
- Each filter cartridge corresponds to a unique serial number, which can be tracked throughout the process

Typical Application

- Filtration of biological reagent
- Filtration of culture media
- Filtration of blood product
- Filtration of vaccine
- Sterilization and filtration of antibiotic solutions

Product Specification

Filter Material	Hydrophilic polyvinylidene fluoride membrane (PVDF)
Center core / Housing / End cap Material	Polypropylene
Cage material	Polypropylene
Vent O-ring Material:	Silicone/ EPDM/ Viton
Filtration area	≥0.6m ² /10inch
Maximum working temperature	80°C
Maximum working pressure difference	4.2bar@23°C ((forward direction) 2.4bar@80°C ((forward direction)
Sterilization	126°C/30min; high pressure steam sterilization; ≥30 times
Endotoxin	< 0.25EU/mL
Extractable matter	< 30mg/10inch
Biocompatibility	All materials comply with biosafety evaluation of plastic USP<88>, ClassVI-70°C level
Integrity Test Method	Bubble point, diffusion flow; for detailed parameters, please consult the sales engineer of Eternalwater Company



Ordering Information

ELV [1](#) [2](#) [3](#) [4](#) [5](#)

Block 1		Block 2		Block 3	Block 4		Block 5	
Code	Removal Rating	Code	End Cap Type	Length	Code	O-ring Seal Material	Code	Cage Material
010	0.10µm	J1	222/Fin	05inch	S	Silicone	A	Polypropylene
020	0.20µm	J2	222/Flat	10inch	E	EPDM		
045	0.45µm	J3	226/Fin	20inch	V	Viton		
050	0.50µm	J4	226/Flat	30inch	D	E-FKM		
060	0.60µm	J5	DOE	40inch				
080	0.80µm							
100	1.00µm							
500	5.00µm							