

# SurePore PVDF Membrane Pleated Filter Cartridge

» An Absolute Filter with Longer Service Time and High Flow Rate



## Description

SurePore PVDF uses the high porosity, hydrophilic PVDF membrane, along with the reasonable configuration structure, can make full use of the advantages of the high velocity PVDF membrane. KynarPure-L filters are especially suitable for the bulk material filtration, and can provide better performance compared to similar products, while ensuring the low cost.

## » Reliability

From raw materials purchase, transport to production and storage, all operations follow ISO 9001 quality management system. SurePore PVDF manufactured, tested and packaged in a clean room to ensure product cleanliness. KynarPure-L cartridge filters are 100% integrity tested before they shipment. A validation guide for compliance with regulatory requirements is available.

## » Compatibility

SurePore PVDF cartridge filters are sealed using thermal bonding process, contain no adhesive and surfactant. The components of SurePore PVDF, including of Polyvinylidene fluoride, Polypropylene and Silicone, /EPDM, provide broad chemical compatibility, and low protein binding, can specially used in acid and low protein binding requirements of long-term work environment.

## » Economy

The optimized structure of the filters can give full play of the membrane performance. High velocity of SurePore PVDF filters, reduce the cost greatly, also ensure the highest process efficiency.

## » Regulatory Compliance

FDA 21 CFR 177  
 ISO 10993-Part 1, 5  
 USP Class VI-121 °C  
 Regulation (EC) No 1935/2004

## Specifications

### » Materials of Construction

Filter membrane	Hydrophilic Polyvinylidene fluoride
Supports	Polypropylene
Cage/End Caps	Polypropylene/SS 316L
Core	Polypropylene
Adaptor	Polypropylene
O-rings	Please refer to the ordering info

### » Filter Dimensions

Outer Diameter	68.0mm
Inner Diameter	33.0mm
Filtration Area	Single layer: 0.65m <sup>2</sup> /10inch Double layer: 0.55m <sup>2</sup> /10inch

### » Safety

Bacterial Endotoxin	≤0.25EU/mL
Extractable	≤40mg/10inch

### » Operating Parameters

Maximum Operating Temperature	80°C
Maximum Differential Pressure (Forward)	5.2bar@25°C
Maximum Differential Pressure (Reverse)	2.1bar@25°C

### » Sterilizable

Autoclave	124°C,30min, 30cycles
	134°C,20min, 30cycles
Steam In-Place	124°C,30min, 30cycles
	134°C,20min, 30cycles

## Features

- Low precipitation and have extensive chemical compatibility
- High porosity, very low protein binding
- 100% integrity testing
- No pre-wetting required

## Application

- High purity chemicals, chemical intermediates, strong acid and strong oxidation liquid filtration
- Sterilization filtration of SVP and LVP
- Sterilization filtration of sterile raw materials and ophthalmic preparations Sterilization
- filtration of high protein content materials such as vaccines, biological products, and blood products

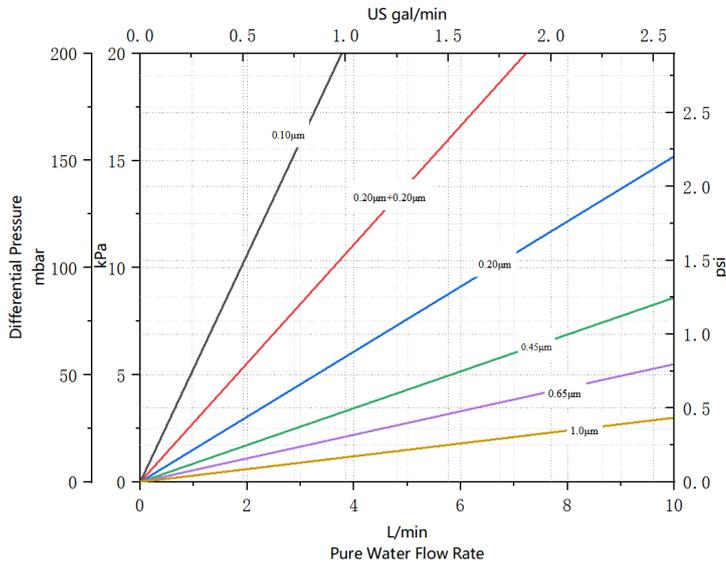
### » Integrity Test Data\*

Pore Size	Min. Bubble Point@25°C	Max. Diffusion@25°C
0.10µm	≥4.2bar	≤15mL/min@3.2bar
0.20µm	≥3.4bar	≤15mL/min@2.7bar
0.20µm+0.20µm	≥3.4bar	≤11mL/min@2.7bar
0.45µm	≥1.6bar	≤20mL/min@1.6bar
0.65µm	≥1.0bar	≤15mL/min@0.8bar
1.0µm	≥0.5bar	≤15mL/min@0.4bar

\*Tested by 60%(v:v) IPA@10"

## Flow Rate-Pressure Drop

SurePore PVDF using the high porosity, hydrophilic PVDF membrane, along with the reasonable configuration structure, can make full use of the advantages of the high velocity PVDF membrane. KynarPure-L filters are especially suitable for the bulk material filtration, and can provide better performance compared to similar products, while ensuring the low cost.



10" cartridge filter @25°C  
 Typical flow rates. For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.  
 Unit conversion: 1 bar = 100 kPa = 14.5 psi

## Ordering Information\*

Filter Media	Length	Removal Rating	Adaptor	Sealing	Core
CRPVDFL: Hydrophilic Polyvinylidene fluoride membrane	005 = 5 inch 010 = 10 inch 020 = 20 inch 030 = 30 inch 040 = 40 inch	010 = 0.10µm 020 = 0.20µm X20=0.20µm+0.20µm 045 = 0.45µm 065= 0.65µm 100=1.0µm	0=DOE 1=222/Flat with SS insert 2=222/Flat 3=222/Fin 4=222/Fin with SS insert 5=226/Fin with SS insert 6=226/Fin 7=226/Flat 8=226/Flat with SS insert	S=Silicone E=EPDM N=NBR F=FKM	Blank=PP R=GF Reinforced PP S=316L Stainless Steel

\* This information is a guide to the part number structure and possible options. For applications requiring autoclaving and sterilization, We recommends the use of adaptor with SS insert to ensure filter sealing after cooling, If products that require autoclaving and sterilization use EPDM sealing rings and require customization. For availability of specific options and housing details, please contact to us.