

# KynarPure-L PVDF Pleated Cartridge Filter

An Absolute Filters with 2 Higher Flow Rate and Long Service Time

## Specifications



### >>Materials of Construction

Filter membrane	Polyvinylidene fluoride
Supports	Polypropylene
Cage/End Caps	Polypropylene
Core	Polypropylene / Polysulfone
Adaptor	Polypropylene
O-rings	Silicone/EPDM

### >>Operating Parameters

Maximum Operating Temperature	1.7bar@82°C
Maximum Differential Pressure (forward)	5.2bar@25°C
Recommended replacement pressure	2.4bar

### >>Filter Dimensions

Outer Diameter	68.5mm
Inner Diameter	33.0mm
Filtration Area	≥0.62 m <sup>2</sup>

### >>Safety

Bacterial	≤0.25EU/ml
Endotoxin	≤40mg/10inch

### >>Sterilizable

Autoclave	109°C,30min.50cycles
	124°C,30min.30cycles
Steam In-Place	109°C,30min.50cycles
	124°C,30min.30cycles
Hot water	80°C,30min.50cycles

## Description

KynarPure-L using high porosity, hydrophilic PVDF membrane, the structure of the reasonable configuration, make full use of the advantages of high velocity of PVDF membrane, and can improve the filter dirt holding capacity, prolong service life. KynarPure-L filters are especially suitable for application in the bulk material filtration, can provide better performance compared to similar products, while ensuring low cost.

### >>Reliability

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

### >>Compatibility

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

### >>Economy

High velocity of KynarPure-L filters, greatly reduce the cost, and its optimized structure can give full play to the performance of membrane. These features ensure the highest process efficiency and minimized filtration costs.

### >>Integrity Test Data

Pore Size	Min. Bubble Point, 25°C	Max. Diffusion, 25°C
0.2	3.1bar	≤15ml/min@2.5bar
0.45	1.6bar	≤15ml/min@1.2bar
0.65	1.0bar	≤15ml/min@0.8bar
1.0	0.5bar	≤15ml/min@0.4bar

### >>Super hydrophilic

Compared with similar products, KynarPure-L have better hydrophilicity and hydrophilia stability, have lower water contact angle.



### >>Regulatory Compliance

ASTM D6394 SP0112  
 FDA 21 CFR 177.1655  
 ISO 10993-Part 1, 5  
 EN 285:2006+A2:2009.  
 Regulation (EC) No 1935/2004

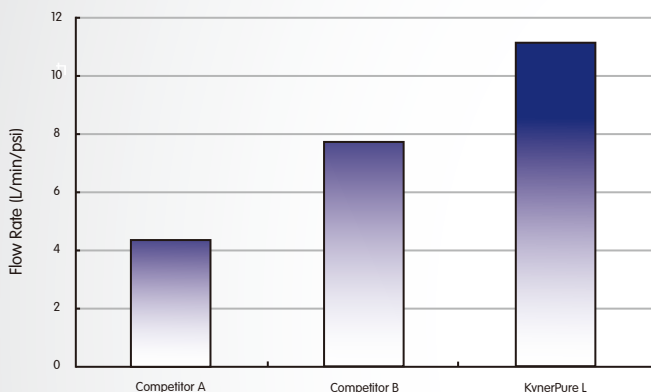
# KynarPure-L PVDF Pleated Cartridge Filter

An Absolute Filters with 2 Higher Flow Rate and Long Service Time

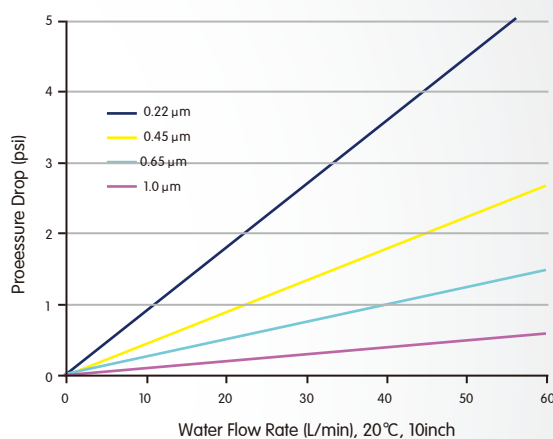
## Lower Costs and Longer Service Time

Due to the high porosity of hydrophilic PVDF membrane, KynarPure-L have great flow rate, in the filtration process, can effectively reduce the total cost of filtering system, washing of the filter and the cost of purchasing replacement. And the structure optimized, can also retard membrane blocking rate, make the per unit membrane area containing more particles and colloid pollutants.

### >>The Flow Rate of KynarPure-L 0.22µm Compared with the Competitive Products



## Flow Rate-Pressure Drop



## Application

- Wine, fruit juice, beer, bottled water and other large capacity to remove liquid particles and microorganisms
- Buffer, cell culture, downstream of the intermediate filtering
- Protein purification
- Without strict aseptic requirements, reduce the load and turbidity, protect downstream bacteria and mycoplasma filtration

## Order Information

Filter Media	Length	Pore Size	Adaptor	Sealing	Core
CRPVDFL: Hydrophilic Polyvinylidene fluoride	005 = 5 inch 010 = 10 inch 020 = 20 inch 030 = 30 inch 040 = 40 inch	020 = 0.22 µm 045 = 0.45 µm 065=0.65 µm 100 = 1.0 µm	0 = DOE 2 = 222/Flat 3 = 222/Fin 6 = 226/Fin 7 = 226/Flat	S = Silicon E = EPDM	Blank = PP S = stainless steel P = Polysulfone