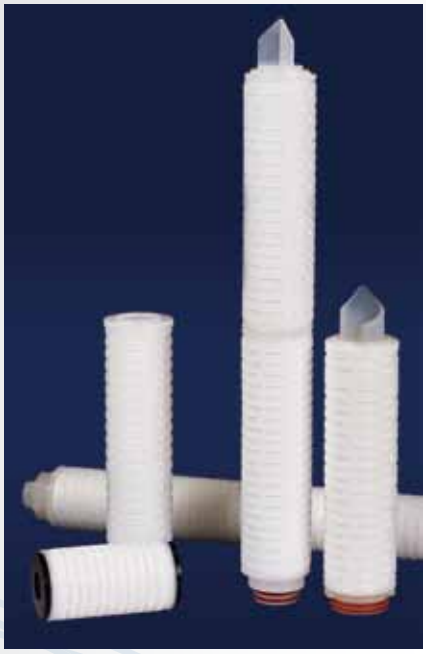
Membrane Solutions

KynarPure-D PVDF Pleated cartridge filter

An Absolute Filters with 2-3 Longer Service Time and High Flow Rate

Specifications



>>Materials of Construction

Pre–Filter membrane	Polyvinylidene fluoride
End–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℃
Maximum Differential Pressure (forward)	5.2bar@25℃
Maximum Differential Pressure (reverse)	2.1bar@25℃
Recommended replacement pressure	2.4bar

>>Filter Dimensions

Outer	68.5mm
Diameter	33.0mm
Inner	⩾0.6 ㎡

>>Safety

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

>>Sterilizable

Autoclave	124℃,30min.30cycles
	134℃,30min.20cycles
Steam In–Place	124℃,30min.30cycles pressure drop ⩽0.5bar
	134℃,30min.20cycles pressure drop ⩽0.5bar

Description

KynarPure–D cartridge filters used the appropriate pre–filter layer, which can reduces the plugging rate of end–filter membrane effectively, and maximize extend the service life of two layer membranes and still have high flow rate. The optimized KynarPure–D cartridge filters can provide longer service time than generic cartridge filters in most applications.

>>Reliability

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

>>Compatibility

KynarPure–D cartridge filters are sealed using thermal bonding process, contain no adhesive and surfactant. The components of KynarPure–D, include 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

KynarPure–D cartridge filters take use of the hydrophilic, high porosity Polyvinylidene fluoride membrane as pre–filter and end–filter. The optimized structure of KynarPure–D cartridge filters specifically design to deal with broad variety of contaminants in various applications. KynarPure–D cartridge filters can provide the highest process efficiency and minimized filtration costs.

>>Suitable for Severe High Temperature Sterilizing

KynarPure–D can ensure integrity at temperature up to 134℃and pressure drop up to 0.5bar due to the high strength of Polyvinylidene fluoride membrane and enhanced Polypropylene structure. KynarPure–D can provide excellent filtration service for your process.

>>Integrity Test Data

Pore Size	Min. Bubble Point, 25 ℃	Max. Diffusion, 25 ℃
0.1 μm	4.2bar	⩽13ml/min@3.2bar
0.2 μm	3.4bar	⩽13ml/min@2.7bar
0.45 μm	1.8bar	⩽13ml/min@1.4bar

>>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

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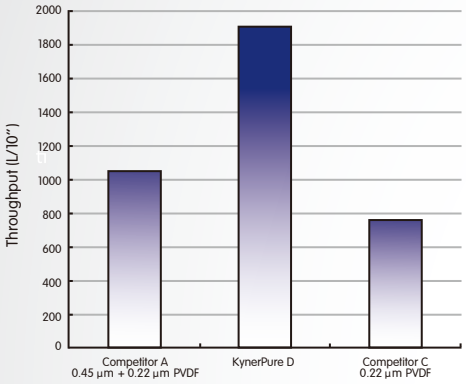
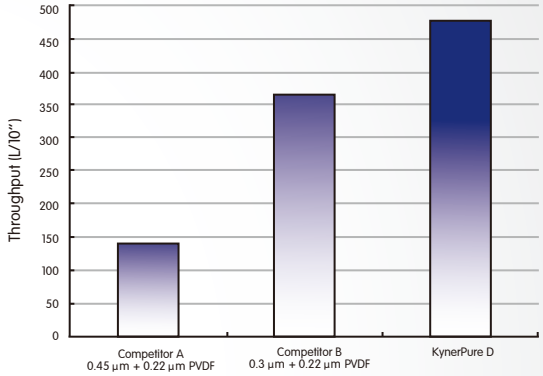
Longer Service Time and Excellent Cost–Effective

The built–in pre–filter membrane significantly increases the total throughput and stability of flow rate. In most time of your filtration process, KynarPure–D cartridge filters can provide high flow rate and low pressure drop due to the special design membrane for pre–filter and controlled high throughput end–filter membrane. KynarPure–D can effectively reduce the operating costs of filtration system, the cost of replacement filters and downtime in many applications.

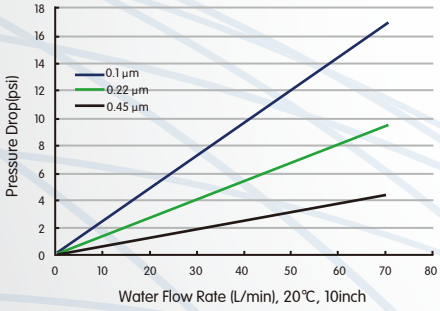
>>CHO serum–free media



>>Peptone in DMEM media



Flow Rate–Pressure Drop



Application

- ☑ Containing serum or peptone cell culture medium
- ☑ Blood filtration
- ☑ The process material of downstream
- ☑ Protein purification
- ☑ The clarified cell cultures
- ☑ Liquid sterilizing filtration in food and beverage industry

Order Information

Filter Media	Length	Pore Size	Adaptor	Sealing	Core
CRPVDFD: Hydrophilic Polyvinylidene fluoride membrane	005 = 5 inch 010 = 10 inch 020 = 20 inch 030 = 30 inch 040 = 40 inch	010 = 0.1 µ m 020 = 0.22 µ m 045 = 0.45 µ m	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

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