KynarPure-L PVDF Pleated Cartridge Filter

An Absolute Filter with Longer Service Time and High Flow Rate



Description

KynarPure -L using the high porosity, hydrophilic PVDF membrane, along with the resonable 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. KynarPure-L 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

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 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 KynarPure-L filters, reduce the cost greatly, also ensure the highest process efficiency.

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.

Operating Parameters

Maximum Operating Temperature	80℃
Maximum Differential Pressure (forward)	5.2bar@25℃
Maximum Differential Pressure (reverse)	2.1bar@25℃

Regulatory Compliance

FDA 21 CFR 177
ISO 10993-Part 1, 5
EN 285:2006+A2:2009.
Regulation (EC) No 1935/2004

Filter Dimensions

Outer Diameter	69.0mm
Inner Diameter	33.0mm
Filtration Area	Single layer: 0.65m²/10inch Double layer: 0.55m²/10inch

Safety

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

Sterilizable

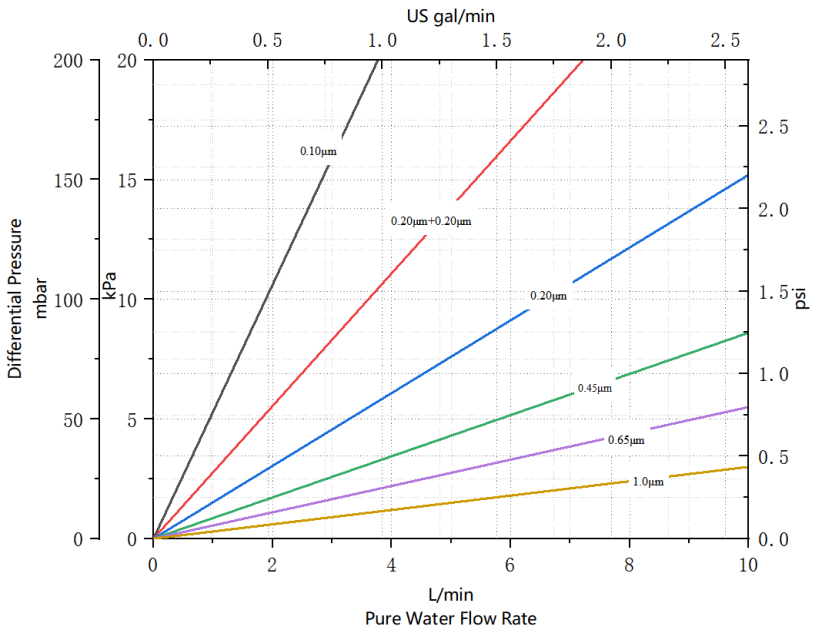
Autoclave	124 ° C, 30 minutes, 30times
	134 ° C, 20 minutes, 30 times
Steam In-Place	124 ° C, 30 minutes, 30times
	134 ° C, 20 minutes, 30 times

Integrity Test Data*

Pore Size	Min, Bubble Point, 25℃	Max, Diffusion, 25℃
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	≤15mL/min@1.2bar
0.65μm	≥1.0bar	≤15mL/min@0.8bar
1.0μm	≥0.5bar	≤15mL/min@0.4bar

*.Tested by Pure Water @10"

Flow Rate-Pressure Drop



10" cartridge filter @25℃
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

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

Ordering Information*

Filter Media	Length	Pore Size	Adaptor	Sealing	Core
CRPVDFL: Hydrophilic Polyvinylidene fluoride membrane	005 = 5 inches 010 = 10 inches 020 = 20 inches 030 = 30 inches 040 = 40 inches	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, MS 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 MS.

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