



KynarPure-D PVDF Pleated Cartridge Filter

» An Absolute Filters with Higher Flow Rate and Higher Removal Efficiency



Description

KynarPure-D are the higher level of aseptic cartridge filters, have higher filtration efficiency by the use of double membrane configuration. Optimized structure design, make maximum utilization of the membrane. KynarPure-D can be widely used in the biomedical industry and other aseptic filtration, while guarantee low cost and performance far more than similar products.

» Reliability

From raw materials purchase, transport to production and storage, all operations follow ISO 9001 quality management system. KynarPure-D are manufactured, tested and packaged in a cleanroom to ensure products cleanliness, and provide absolute retention based on liquid bacteria challenge. KynarPure-D filters are 100% integrity tested prior to shipment, and provide validation guide available for compliance with regulatory requirements.

» Compatibility

KynarPure-D cartridge filters are sealed using thermal bonding process, with no adhesive and surfactant. The components of KynarPure-D filters include Polyvinylidene fluoride, Polypropylene and Silicone/EPDM, provide broad chemical compatibility, and very low protein binding.

» Longer Service Time, Higher Flow Rate and Excellent Cost-Effective

Compared with the similar products, KynarPure-D filters have longer service life, higher flow rate, can effective reduce the operating and replacement costs of filtration system, and reduce the downtime in many applications.

Followings are the contrast figures of service life and flow rate of KynarPure-D and the other brand products.

Specifications

» Materials of Construction » Filter Dimensions

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

Outer Diameter	68.5mm
Inner Diameter	33.0mm
Filtration Area	≥0.60m ²

» Safety

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

» Operating Parameters

Maximum Operating Temperature	1.7bar@82°C
Maximum Differential Pressure (forward)	5.2bar@25°C
Maximum Differential Pressure (reverse)	2.1bar@25°C
Recommended Replacement Pressure	2.4bar

» Sterilizable

Autoclave	124°C, 30min, 30cycles
	134°C, 30min, 20cycles
Steam In-Place	124°C, 30min, 30cycles
	134°C, 30min, 20cycles
	pressure drop ≤0.5bar

» Integrity Test Data

Pore Size	Bubble Point	Diffusion	Challenge Microorganisms	LRV
0.22µm	≥3.4bar	≤11ml/min@2.7bar	Brevundimonas diminuta (ATCC 19146)	7
0.45µm	≥1.8bar	≤11ml/min@1.4bar	Serratia Marcescens (ATCC 14756)	7

» Economy

Under the premise of achieving absolute aseptic application, KynarPure-D cartridge filters using the high porosity membrane along with reasonable structure, can reach higher flow rate and have more capacity, result to decrease the cost of use significantly.

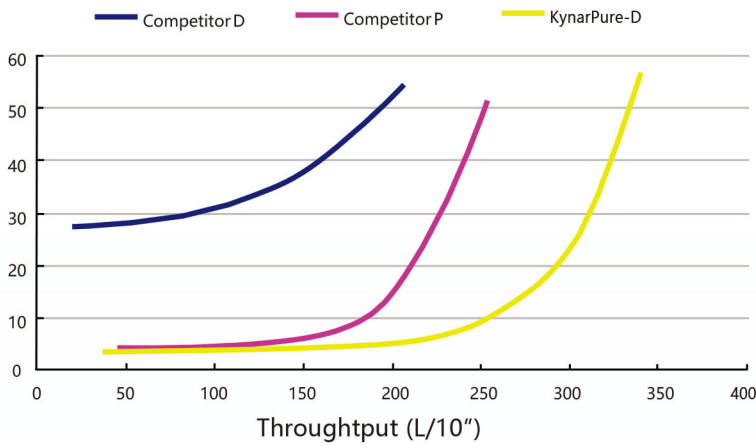
» Regulatory Compliance

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

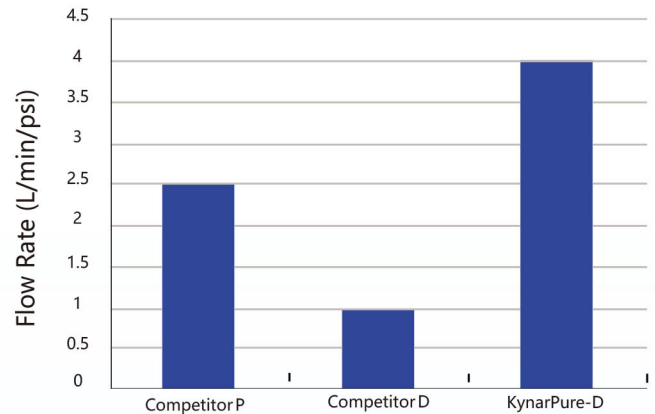
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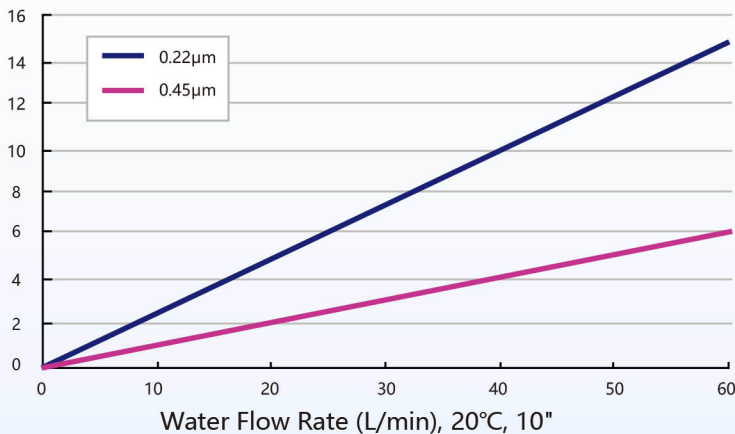
Peptone Media / 10", 0.22µm



Water Flow Rate / 10", 0.22µm



Flow Rate-Pressure Drop



Application

- Containing serum or peptone cell culture medium
- Ophthalmics, dilute preservative solutions
- Pharmaceutical active ingredients, biological agents
- Liquid sterilizing filtration in food and beverage industry

Order Information

Filter Media	Length	Pore Size	Adaptor	Sealing	Core
CRPVDF: Hydrophilic Polyvinylidene fluoridemembrane	005 = 5 inches 010 = 10 inches 020 = 20 inches 030 = 30 inches 040 = 40 inches	020 = 0.22µm 045 = 0.45µm	0=DOE 2=222/Flat 3=222/Fin 4=222/Fin with 316L SS insert 5=226/Fin with 316L SS insert 6=226/Fin 7=226/Flat	S = Silicone E = EPDM	Blank = PP S = 316L Stainless Steel P = Polysulfone