JKL Series PES Filter Capsules

JKL Capsule filter assemblies are ready-to-use filters that offer high flows, increased throughputs, high strength, all with the convenience and cleanliness of a disposable and easy-to-install filter assembly in a small package. These capsules are designed for small pre-filtration, clarification, and final filtration, in sterile compounding applications. The filtration shell is an all-polypropylene construction that provides excellent chemical compatibility, truly flexible, clean, and optimal.

JKL Filter Capsule with Female Luer Lock Inlet Fitting and Male Luer Lock Outlet Fitting

Technical Data Sheet

Popular Configuration:

Catalog Number	Effective Filtration Area	Inlet Connection	Outlet Connection	Sterilization Type
JKLS100LFLM-ETO	260cm^2 [40 in^2]	Female Luer Lock	Male Luer Lock	Ethylene Oxide Sterilization (ETO)

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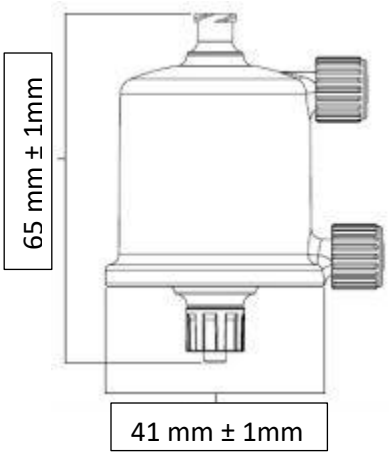

Materials of Construction

Media: PES Sterilizing Grade - Hydrophilic

Media Supports: Polypropylene

Cage, Core, End Caps: Polypropylene

Valve O-Rings: Silicon (Standard)

Sealing: Thermally Bonded

Micron Rating:

Final Media: 1.0 µm

Nominal Dimensions:

Lengths: 2.5” (65mm) with fittings

Diameter: 1.6” (41mm)

Effective Filtration Area:

260 cm^2 [40 in^2] for dual layer membrane

Volume Filtered:

5.5L – 13.8L

Allowable Flowrate:

490 mlpm – 830 mlpm

Operating Conditions:

Maximum Forward Differential Pressure: Liquid: 5.5 bar (80psi) at 77°F/25°C
Gas: 4.1 bar (60psi) at 77°F/25°C

Minimum Burst Pressure: 8.3 bar (120psi) at 77°F/25°C

Maximum Forward Differential Pressure: 5 bar (72psi) at 68°F/20°C

Maximum Reverse Differential Pressure: 2.1 bar (30psi) at 68°F/20°C

Maximum Operating Temperature: 176°F/80°C

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Filter Integrity:

The finished product was sampled and shown to exhibit a 60% isopropanol/40% water bubble point of 1.2 bar (17.4 psi) using air at 22℃.

USP Bacterial Endotoxins:

The filters were tested to confirm that an aqueous extraction of this product contains <0.25 EU/ml as determined by the Limulus Amebocyte Lysate (LAL) Test

USP Conductivity:

Effluent is tested during the manufacturing process and shown to meet the requirements for USP Sterile Water for Injection for conductivity

Bacterial Retention:

The filters are quantitatively retentive towards *Brevundimonas diminuta* (ATCC #19146) at a minimum challenge level of 10^7 CFU per cm^2 of filtration area, consistent with ASTM F838-05

Sterilization:

The filters can be autoclaved up to 25 cycles at 125°C (257°F) for 30 minutes

Waring: The filters cannot be sterilized by steam-in-place (SIP)

ISO 10993-5 Cytotoxicity:

Extract from this product is non-Cytotoxic

ASTM Hemolysis:

Extract from this product is non-Hemolytic

Shelf Life:

The JKL capsules have a shelf life of 2 years from the date of sterilization

ETO Cycle Condition:

Cycle No. JPAM11, Report No. PQ VP-ETO02-2016-0010 Rev.0

Special Configuration:

Layer Option:

- Single Layer
- Dual Layer

Micron Rating Option:

- 0.05 Micron
- 0.1 Micron
- 0.2 Micron
- 0.45 Micron
- 0.65 Micron
- 8 Micron
- 1.2 Micron

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Seal Option:

- EPDM
- Nitrile
- Viton

Inlet Fitting Option:

- 1H = 1/8" Hose Barb
- 1Q = 1/8" Male Quick Coupling
- 2H =1/4” Hose Barb
- 2Q = 1/4" Male Quick Coupling for Metal latch
- 3H = 3/8" Hose Barb
- LF = Female Luer Lock
- MT = 1/2" Tri clamps

Outlet Fitting Option:

- 1H = 1/8" Hose Barb
- 1Q = 1/8" Male Quick Coupling
- 2H = 1/4” Hose Barb
- 2H-FB = 1/4” Hose Barb with Filling Bell
- 2H -FC = 1/4" Hose barbs with Filling Bell with Cap
- 2Q = 1/4" Male Quick Coupling for Metal latch
- 3H = 3/8" Hose Barb
- LM = Male Luer Lock
- MT = 1/2" Tri clamps

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