



International Filter Products

Revolutionary systems for your industry

Efficient Sterile-Grade Series

The CAP-Multi Layer series capsule filters are made of a Tri-layer dual PP pre-filter and a PES membrane final. They have a built-in pre-filter media in front of the end-filter membrane. The unique pre-filter media/membrane reduces the plugging rate of the end-filter membrane effectively. Its removal ratings of typical bacteria in the industry have been verified by batches, and its sterilization ability LRV > 7. CAP-PES series capsule filters are available in a wide range of cages and connections, with the filter element's reliability in sterilization enabled by a special design.



Features

- Strong Chemical Compatibility
- High Flux, Low Protein Binding
- Proven Sterile-Grade Cartridge
- Super Long Service Life

Applications

- Water for Injection
- Antibiotic Water-Based Liquid
- Purified Water
- Deionized Water
- LVP
- APIs
- Buffers
- Eye Drops
- Disinfectants
- Vaccines
- Serums
- Biological Products



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Technical Parameters

Effective Filtration Area:

J-Size: 0.25 ft^2 (230 cm^2)
D-Size: 0.54 ft^2 (500 cm^2)
S-Size: 1.08 ft^2 ($1,000 \text{ cm}^2$)
L-Size: 2.15 ft^2 ($2,000 \text{ cm}^2$)
E-Size: 2.91 ft^2 ($2,700 \text{ cm}^2$)
K-Size: 5.92 ft^2 ($5,500 \text{ cm}^2$)
T-Size: 11.8 ft^2 ($11,000 \text{ cm}^2$)
V-Size: 17.8 ft^2 ($16,500 \text{ cm}^2$)

Materials of Construction:

Filter Membrane: Tri-Layer 5.0 Micron PP Media/ 0.65 micron PP Media/ 0.2 micron PES

Membrane Feature: Hydrophilic, Low Protein Binding, High Flow Rate

Supports/Drainage: Polypropylene

Shell, Cage, Core, End Caps: Polypropylene

Operating Conditions:

Maximum Operating Pressure: **Liquid:** 8.0 bar (116psi) at 77°F/25°C

Gas: 4.5 bar (65psi) at 77°F/25°C

Minimum Burst Pressure: 8.3 bar (120psi) at 72°F/22°C

Maximum Forward Differential Pressure: 5.2 bar (75psi) at 77°F/25°C

Maximum Reverse Differential Pressure: 2.1 bar (30psi) at 77°F/25°C

Maximum Operating Temperature: 176°F/80°C





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Nominal Dimension:

	Filter Size	Length of Inner Filter Cartridge	Diameter of Inner Filter Cartridge	Diameter of Shell
	J-Size	1.5"	42mm	60±2mm
	D-Size	1.5"	56mm	72±2mm
	S-Size	2.5"	56mm	72±2mm
	L-Size	5.0"	56mm	72±2mm
	E-Size	5.0"	68mm	108±2mm
	K-Size	10"	68mm	108±2mm
	T-Size	20"	68mm	108±2mm
	V-Size	30"	68mm	108±2mm



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Filter Integrity:

The finished product was sampled and shown to exhibit a minimum bubble point of ≥ 18 psi (1.2 bar) in 60%IPA / 40% water, ≥ 17.5 psi (1.2 bar) in 70%IPA / 30% water, and ≥ 50 psi (3.5 bar) in DI Water (at 22°C).

Bacterial Retention ASTM F838-05:

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 Process:

International Filter Products typically stocks Gamma Sterilized [factory sterilized] filter capsules. Few sterilization methods are mentioned below:

Capsules can be autoclaved 5 times at 124°C (255°F) for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 90°C (194°F) for a limited time (dependent on time and temperature).

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

Regulatory Compliance 21CFR Part 177 & USP <88>:

The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological USP <88> Test for Plastic.

USP <85> 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.

Animal-Derived Components & TSE/BSE Risk:

No animal-derived material is intentionally added or used during the manufacture of this product.

Shelf Life:

The CAP-PES capsules have a shelf life of 3 years from the date of sterilization.



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