

PoreCap® PVDF Membrane Capsule Filters



The PoreCap® series of Hydrophilic PVDF (polyvinylidene fluoride) capsule filters are ready-to-use sterile grade filtration devices which are specially used in end-stage filtration applications i.e. cell culture media, high fouling solutions, proteinaceous sample, sterile filtration, organic and aqueous samples filtration. Their key characteristics include high throughput, absolute retention, large filtration area and chemical inertness. They readily find application in life sciences research, biopharmaceuticals and healthcare industries. These are available in 0.22µm & 0.45µm with 0.22µm/0.45µm upstream combination.

Special Features & Benefits

- ✓ 100% integrity tested and validated
- ✓ Sterilizing grade performance
- ✓ 100% Traceability
- ✓ Low protein binding
- ✓ Large filtration area and high flow rates

Key Applications

- Quality Buffers preparation
- Vaccine production
- Protein Solutions
- Sterilization of Hormonal Injectables
- Microbial Retention & Stabilization
- Manufacturing of LPVs & SVPs
- Final sterile grade filtration
- Antibodies
- Tissue culture media and viral suspension filtration

Our PoreCap® Capsule filters are quality assured for retention efficiency, integrity test and flow rate and validated for Heat Stability, Beta ratio test, fiber particle release, extractables and biosafety

In Compliance with Global Standards

Bacterial Endotoxin	<i>The filtrate/Aqueous extraction from downstream of the filter exhibited endotoxin result < 0.25 EU/mL when tested as per USP <85> methodology</i>
Oxidizable Substances	<i>Oxidizable matter in filtered water meets the USP <1231> Oxidizable Substance Test requirements</i>
Non-fiber Releasing	<i>Meets the criteria for a "non-fiber releasing" filter as defined in 21 CFR 210.3(b)(6).</i>
Particle Shedding	<i>Meets Cleanliness per USP <788> for Particulates in Injectables</i>
Extractable with water	<i>Extractable passes within limit as specified by USP <661></i>
TOC/ Conductivity	<i>Meets the USP <643> for Total Organic Carbon Meets the USP <645> for Water Conductivity</i>

- Manufactured in an ISO Class 8 Cleanroom Environment
- Complete Qualification Guide Available
- Critical raw material used for manufacturing are Compliant with FDA Indirect Food Additive requirements cited in 21 CFR 177.1520 & 21 CFR 177.2440
- Comply with USP <88> Reactivity Test for Class VI plastics
- Wide Chemical Compatibility
- 100% Integrity Tested

TECHNICAL SPECIFICATIONS

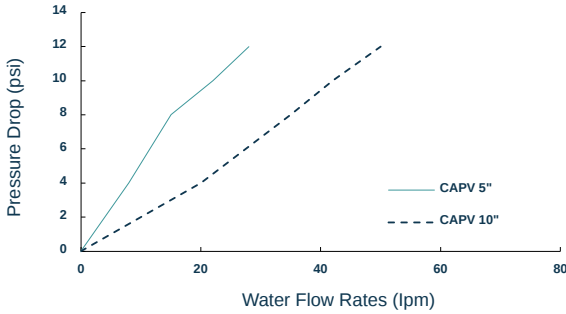


CONSTRUCTION MATERIALS

Filter Media: *Hydrophilic PVDF*

Supporting Media: *Polyester*

Core & Cage: *Polypropylene*



MAXIMUM OPERATING DIFFERENTIAL PRESSURE AND TEMPERATURE

Max Temp 80 °C @ ≤ 2 Kg/cm²

Max Pressure 3.5 Kg/cm² @ 25 °C for forward
0.7 Kg/cm² @ 25 °C for reverse

Autoclavable 2 autoclave cycles at 121 °C

INTEGRITY TEST DATA

Bubble Point:

0.22µm: ≥ 3450 mbar (50 psi) (with water wetted)

0.45µm: ≥ 2206 mbar (32 psi) (with water wetted)

Max Air Diffusion Flow (for 10" Capsule):

0.22µm: ≤ 30 mL/min @ 2550 mbar (37 psi)

0.45µm: ≤ 35 mL/min @ 1650 mbar (24 psi)

Microbial Retention:

0.22µm: LRV > 7 for *Brevundimonas Diminuta*

0.45µm: LRV > 7 for *Serratia marcescens*

ORDERING INFORMATION CODES:

Type		Size			Pore Size		I/O Connection		Bell	
Type	Code	Length	EFA	Code	Micron	Code	Connection	Code		Code
Single Layer	CANN	1"	0.025m ²	A	0.22 µm	020	1/4" SHB	01	Yes	BY
CANN 0.8µm upstream	CANNR2	2"	0.05m ²	B	0.45 µm	045	1/4" MNPT	02	No	BN
		5"	0.10m ²	C	0.80 µm	080	1/4" BSP	03		
CANN 0.65µm upstream	CANNR1	8"	0.20m ²	D			1/4" BSP (O-ring)	04	Sterilization	
		10"	0.60m ²	E			1/2" MNPT	05		
CANN 0.45µm upstream	CANNQ						1/2" Hose barb	06		Code
CANN (same pore size)	CANNQ						1.5" Sanitary Flange	07	ETO	SE
							3/4" Sanitary Flange	08	Gamma	SG
+ve Charged	CANNZ						Quick connector	09	Non-sterile	SN
							1/2" Single step hose barb	10	Non-sterile (Gamma Sterilizable)	SN-G

EXAMPLE: CAPVA0200101BYSE



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