

PureFlo® Polypropylene Membrane Filter Capsules

PureFlo® Polypropylene Membrane capsules are highly retentive and naturally hydrophobic filters. Polypropylene membrane is a reliable choice for the purification of aggressive chemicals, compressed gases, and vent applications. The all-polypropylene construction is an excellent economic alternative to more expensive Fluoropolymer based capsules.

No adhesives, binders, or surfactants are used in the manufacturing process and the membrane does not allow for migration of particle into the process fluid thereby reducing the potential for contamination and downtime. Furthermore, the all polypropylene construction provides excellent thermal and chemical compatibility with low and high pH chemicals.

PureFlo Polypropylene Membrane capsules are absolute rated to ensure consistent filter performance each and every time out of the package. All filter capsules are 100% integrity tested to ensure filter performance.



Materials of Construction

- Membrane: Polypropylene (hydrophobic)
- Membrane Supports: Polypropylene
- Cage, Core, End Caps: Polypropylene
- Fitting Connections: MNPT, FNPT, Flare Compression, Hose Barb, Sanitary Flange

Dimensions (nominal)

- Length: 1.5 in (100 mm)
- Length: 2.5 in (125 mm)
- Length: 5.0 in (220 mm)
- Diameter: 2.75 in. (70 mm)

Effective Filtration Area

- 1.5 in: 0.7 ft² (650 cm²)
- 2.5 in: 1.4 ft² (1300 cm²)
- 5.0 in: 2.7 ft² (2500 cm²)
- 7.5 in: 4.0 ft² (3800 cm²)
- 10.0 in: 5.4 ft² (5000 cm²)

Operating Conditions

- Maximum Forward Differential Pressure: 4.0 bar (58 psid) at 20°C
- Maximum Reverse Differential Pressure: 2.0 bar (29 psid) at 20°C
- Maximum Operating Temperature: 60° C

Applications	
Acids & Bases	Inks
Vents	Photoresists
Solvents	Dyes
Reagent Grade Chemicals	Pharmaceutical Intermediates

Features	Benefits
<ul style="list-style-type: none"> • Absolute Rated Polypropylene Membrane 	<ul style="list-style-type: none"> • Consistent and reproducible particulate removal • High flow rates and low pressure drops • Superior filter lifetime and process throughput
<ul style="list-style-type: none"> • 100% Polypropylene Disposable Capsule 	<ul style="list-style-type: none"> • Excellent thermal and chemical compatibility • Rapid installation and reduced downtime • Reduced chemical handling and hazardous waste disposal
<ul style="list-style-type: none"> • Low Filter Extractables 	<ul style="list-style-type: none"> • No adhesives, binders, or surfactants are used during manufacturing resulting in superior downstream cleanliness • Capsules are rinsed with high-purity water

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Regulatory Compliance

Manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations and USP Class VI biological test for plastics.

Autoclavable /Sanitizable

Capsules may be autoclaved up to 10 times (30 minutes) at 266°F (130°C), or chemically sanitized in place using common sanitizing agents. The capsules can also be sanitized with hot water at up to 194°F (90°C).

PureFlo Polypropylene Membrane Filter Capsule Ordering Guide

Pureflo Capsule Filter	Filter Media	Pore Size	Length	Inlet Fitting	Outlet Fitting	Options
SKL - Capsule Filter with Standard Grade Luer Lock Vent and Drain	M= Polypro	010 = 0.1	H = 1.5"	1C = 1/8" compression (JACO)	1C	Packaging
		020 = 0.2	S = 2.5"	1H = 1/8" Hose Barb	1H	Blank = Bulk Packaged
			L = 5"	1N = 1/8" NPTM	1N	- 1 = Single Bagged
			E = 7.5"	1NF = 1/8" FNPT	1NF	Grade
			K = 10"	IQ = 1/8" Male Quick Coupling	IQ	-Blank = Standard Grade
				IQE = 1/8" Male Quick Coupling Elbow	IQE	-B = Biological Reduction Grade
				IQF = 1/8" Female Quick Coupling	IQF	Shell Material
				IQV = 1/8" Quick Valved Coupling	IQV	Blank = Polypropylene
				IQVF = 1/8" Female Quick Valved Coupling	IQVF	- E = Polyethylene Shell (for Gamma Stability)
				2C = 1/4" Compression	2C	-GP = GammaStable Polypropylene Shell
				2H = 1/4"-1/2" Hose Barb	2H	-NY = Nylon Shell
				2H-FB = 1/4" Hose Barb with Filling Bell	2H-FB	Sterilization
				2N = 1/4" MNPT	2N	-ETO = Ethylene Oxide Sterilization
				2NF = 1/4" FNPT	2NF	O-Ring for Quick Connect
				2P = 1/4 Push to Connect	2P	Blank = Silicon
				2PE = 1/4" Push to Connect Elbow	2PE	-OE = EPDM
				2V = 1/4" Walther Quick Connect	2V	-ON = Nitrile
				3H = 3/8" Hose Barb	3H	-OV = Viton
				3H-FB = 3/8" Hose Barb with Filling Bell	3H-FB	PreFilter (Add before Filter Media)
				3HE = 3/8" Hose Barb Elbow	3HE	G (pore size) = Glass Fiber
				3N = 3/8" MNPT	3N	P (pore size) = Polypropylene
				3NF = 3/8" FNPT	3NF	S (pore size) = PES
				4H = 1/2" Hose Barb	4H	Vent and Drain
				4N = 1/2 MNPT	4N	-N = No Vent or Drain
				4Q = 1/2" Male Quick Coupling	4Q	
				5H = 5/8" Hose Barb	5H	
				8C = 5/16" Compression	8C	
				MT = 1/2" Tri-Clamp	MT	
				TC = 1.5" Tri-Clamp	TC	
				TS = Shower Head	TS	

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