

PureFlo® PTFE Membrane Filter Capsules

PureFlo® PTFE filter capsules are highly retentive hydrophobic PTFE membrane filters that have been designed for critical applications. The PTFE membrane in an all polypropylene construction provides excellent chemical compatibility and superior flow per surface area as compared to other membrane capsules. No adhesives, binders, or surfactants are used in the manufacturing process.

The hydrophobic PTFE membrane is ideally suited for aggressive chemicals such as acids, bases, and solvents. In addition, the hydrophobic membrane provides superior flow and pressure-drop characteristics per surface area for gas filtration and tank venting applications. All filter capsules are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo PTFE filter capsules are well-suited for critical applications where superior flow and particle removal efficiency at 0.1 to 10.0 micron is required.



SPECIFICATIONS

Water Bubble Point Specification, 60/40 IPA

- 0.1um : 22psi
- 0.2um : 13psi

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

Bio-Safety

Filter effluent is Non-Pyrogenic per USP Bacterial Endotoxin(<0.25 EU/ml)

Bacterial Retention

Complete retention of $\geq 10^7$ organisms/cm² of *Brevundimonas diminuta* in accordance with the current HIMA challenge methodology (ASTM F838-83). Validation Guide upon request.

Materials of Construction

Membrane: Hydrophobic PTFE
 Membrane Supports: Polypropylene
 Cage, Core, End Caps, Capsule: Polypropylene

Dimensions (TC fittings)

- Length: 1.5 in (128 mm)
- Length: 2.5 in (155 mm)
- Length: 5.0 in (210 mm)
- Length: 10 in (340mm)
- Diameter: 2.75 in (70 mm)

Effective Filtration Area

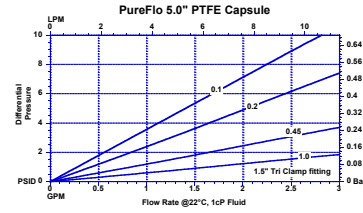
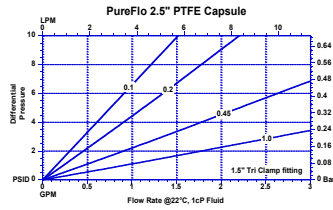
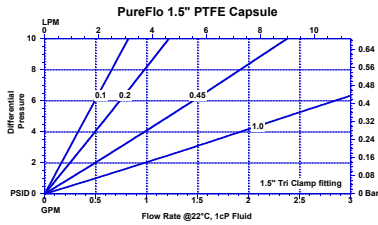
- 1.5 in - 0.65 ft² (650 cm²)
- 2.5 in - 1.3 ft² (1250 cm²)
- 5.0 in - 2.7 ft² (2400 cm²)
- 5.0 in - 4.3 ft² (3980 cm²)
- 10 in - 5.2 ft² (4800 cm²)

Operating Conditions

- Maximum Operating Pressure Liquid:
4.0 bar (58 psid) at 20° C
- Maximum Operating Pressure Gas:
2.0 bar (29 psid) at 20° C
- Maximum Operating Temperature: 60° C

Features	Benefits
<ul style="list-style-type: none"> • Hydrophobic PTFE Membrane 	<ul style="list-style-type: none"> • High flow rates with low pressure drop per surface area as compared to other filter materials • Superior filter lifetime and process throughputs
<ul style="list-style-type: none"> • Wide Chemical & Thermal Compatibility 	<ul style="list-style-type: none"> • Provides excellent compatibility with a wide-range of chemicals such as acids, bases, and solvents • No media migration into the process fluid
<ul style="list-style-type: none"> • Low Filter Extractables 	<ul style="list-style-type: none"> • No adhesives, binders, or surfactants used during manufacturing process resulting in superior downstream cleanliness • All cartridges are rinsed with high purity water to reduce extractables and downtime
<ul style="list-style-type: none"> • Quality Manufacturing 	<ul style="list-style-type: none"> • Consistent and reproducible particulate removal

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Capsule Air Flow Rates—measured at 2 bar (29 psig)

1.5" Capsule
 0.1 micron—3.6 scfm/psid (140 slpm/100 mbar) 0.2 micron—5.4 scfm/psid (222 slpm/100 mbar)
 2.5" Capsule
 0.1 micron—6.7 scfm/psid (279 slpm/100 mbar) 0.2 micron—10.7 scfm/psid (443 slpm/100 mbar)
 5" Capsule
 0.1 micron—14.0 scfm/psid (580 slpm/100 mbar) 0.2 micron—22.0 scfm/psid (921 slpm/100 mbar)

PureFlo PTFE 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	F = PTFE	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
		045 = 0.45	L = 5"	1N = 1/8" NPTM	1N	- 1 = Single Bagged
		100 = 1.0	E = 7.5"	1NF = 1/8" FNPT	1NF	Grade
		300 = 3.0	K = 10"	1Q = 1/8" Male Quick Coupling	1Q	-Blank = Standard Grade
		999 = 10.0		1QE = 1/8" Male Quick Coupling Elbow	1QE	-B = Biological Reduction Grade
				1QF = 1/8" Female Quick Coupling	1QF	Shell Material
				1QV = 1/8" Quick Valved Coupling	1QV	Blank = Polypropylene
				1QVF = 1/8" Female Quick Valved Coupling	1QVF	- 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			

<p>Your Local Distributor:</p> <p>PHARMBIOLOGIC SOLUTIONS</p> <p>P*317-415-0179 F*317-536-3937</p>	<p>Please Visit Us At:</p> <p>www.pharmbiologicsolutions.com</p> <p>info@pharmbiologicsolutions.com</p> <p>P*317-415-0179 F*317-536-3937</p> <p>PureFlo is a registered trademarks of ZenPure Corporation or an affiliated company. Copyright 2010 ZenPure or an affiliated company. All rights reserved.</p>
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