

# PureFlo® Nylon Membrane Filter Capsules

PureFlo® Nylon filter capsules are highly retentive, naturally hydrophilic nylon membrane filters that have been specially designed for liquid applications. The nylon 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. All capsules are rinsed with high-purity water to reduce extractables and downtime.

The naturally hydrophilic nylon membrane does not require pre-wetting with IPA and flushing with DI water, thereby eliminating a potential source of contamination and hazardous waste.

All filter capsules are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo nylon filter capsules are well-suited for critical applications where superior flow and particle removal efficiency at 0.05, 0.1, 0.2, 0.45, 0.65, and 1.0 micron is required.

Applications	
Solvents	Parts Cleaning
Fine Chemicals	Cosmetics
Ink Jets	Pharmaceuticals
Process Water	Biologics
Beverages	Dyes

### 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.



### Materials of Construction

Membrane: Naturally Hydrophilic Nylon  
 Membrane Supports: Polypropylene  
 Cage, Core, End Caps: Polypropylene  
 Fitting Connections: MNPT, FNPT, Compression, Sanitary Flange, Hose Barb, Coupling

### 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)

### Available Micron Ratings

0.05, 0.1, 0.2, 0.45, 0.65, and 0.1 microns

### Effective Filtration Area

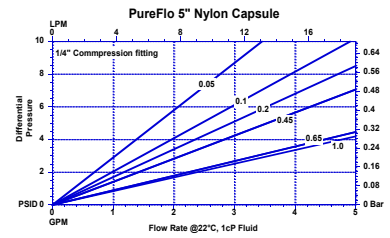
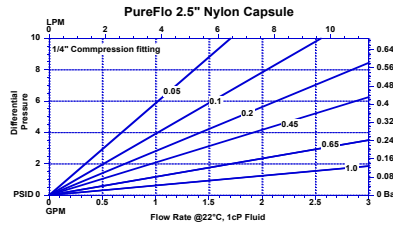
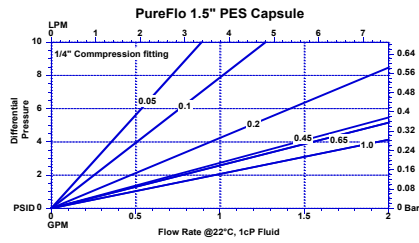
1.5 in - 0.77 ft<sup>2</sup> (720 cm<sup>2</sup>)  
 2.5 in - 1.5 ft<sup>2</sup> (1380 cm<sup>2</sup>)  
 5.0 in - 2.8 ft<sup>2</sup> (2600 cm<sup>2</sup>)  
 7.5 in - 4.0 ft<sup>2</sup> (3900 cm<sup>2</sup>)  
 10 in - 5.6 ft<sup>2</sup> (5200 cm<sup>2</sup>)

### 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

Features	Benefits
<ul style="list-style-type: none"> <li>Naturally Hydrophilic Nylon Membrane (Absolute Rated)</li> </ul>	<ul style="list-style-type: none"> <li>IPA pre-wetting not required – thereby eliminating a potential source of contamination and disposal waste</li> <li>Reduces downtime and improves throughput</li> <li>Economic alternative to PTFE and PVDF</li> </ul>
<ul style="list-style-type: none"> <li>Small Disposable Capsule</li> </ul>	<ul style="list-style-type: none"> <li>Rapid installation reduces downtime</li> <li>Low hold-up volume reduces chemical waste</li> <li>Reduced handling of hazardous chemicals</li> </ul>
<ul style="list-style-type: none"> <li>Ease of Scale-Up</li> </ul>	<ul style="list-style-type: none"> <li>Consistent filtration from laboratory testing to full production</li> </ul>
<ul style="list-style-type: none"> <li>Low Filter Extractables</li> </ul>	<ul style="list-style-type: none"> <li>No adhesives, binders, or surfactants used</li> <li>Capsules are rinsed with high-purity water</li> </ul>

## PureFlo® Nylon Membrane Filter Capsules



### PureFlo Nylon 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	N= Nylon	005 = 0.05	H = 1.5"	1C = 1/8" compression (JACO)	1C	<b>Packaging</b>
		010 = 0.1	S = 2.5"	1H = 1/8" Hose Barb	1H	Blank = Bulk Packaged
		020 = 0.2	L = 5"	1N = 1/8" NPTM	1N	- 1 = Single Bagged
		045 = 0.45	E = 7.5"	1NF = 1/8" FNPT	1NF	<b>Grade</b>
		065 = 0.65	K = 10"	1Q = 1/8" Male Quick Coupling	1Q	-Blank = Standard Grade
		080 = 0.8		1QE = 1/8" Male Quick Coupling Elbow	1QE	-B = Biological Reduction Grade
		120 = 1.2		1QF = 1/8" Female Quick Coupling	1QF	<b>Shell Material</b>
				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	<b>Sterilization</b>
				2N = 1/4" MNPT	2N	-ETO = Ethylene Oxide Sterilization
				2NF = 1/4" FNPT	2NF	<b>O-Ring for Quick Connect</b>
				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	<b>PreFilter (Add before Filter Media)</b>
				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	<b>Vent and Drain</b>		
		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><b>Your Local Distributor:</b></p> <p><b>PHARMBIOLOGIC SOLUTIONS</b></p> <p><b>P*317-415-0179</b> <b>F*317-536-3937</b></p>	<p><b>Please Visit Us At:</b></p> <p><a href="http://www.pharmbiologicsolutions.com">www.pharmbiologicsolutions.com</a></p> <p><a href="mailto:info@pharmbiologicsolutions.com">info@pharmbiologicsolutions.com</a></p> <p><b>P* 317-415-0179 F*317-536-3937</b></p> <p>ZenPure and PureFlo are registered trademarks of ZenPure Corporation or an affiliated company. Copyright 2003 ZenPure or an affiliated company. Viton is a registered trademark of DuPont Dow Elastomers. All rights reserved</p>
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