



# PureFlo® PTFE Filter Capsules

PureFlo® PTFE filter capsules are highly retentive hydrophobic PTFE membrane filters that have been specially designed for critical applications. The PTFE membrane in an all-polypropylene construction provides excellent chemical compatibility and superior flow per unit 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 pressuredrop characteristics per unit 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.



Applications	
Acids	Ink Jets
Bases	Electronics
Solvents	Pharmaceuticals
Fine Chemicals	Venting
Plating Solutions	Dyes
Process Water	Lacquers

### Regulatory Compliance

Manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations

### Materials of Construction

Membrane: Hydrophobic PTFE  
 Membrane Supports: Polypropylene  
 Cage, Core, End Caps, Capsule: Polypropylene  
 Fitting Connections: MNPT, FNPT, Quick Couplings, Compression, Hose Barb, Sanitary Flange

### Dimensions (TC fittings)

Length: 1.5 in (128 mm)    Length: 2.5 in (155 mm)  
 Length: 5.0 in (210 mm)    Length 7.5 in (270 mm)  
 Length: 10 in (340mm)  
 Diameter: 2.75 in (70 mm)

### Effective Filtration Area

1.5 in - 0.65 ft<sup>2</sup> (650 cm<sup>2</sup>)    2.5 in - 1.3 ft<sup>2</sup> (1250 cm<sup>2</sup>)  
 5.0 in - 2.7 ft<sup>2</sup> (2400 cm<sup>2</sup>)    7.5 in - 4.3ft<sup>2</sup> (3980 cm<sup>2</sup>)  
 10 in - 5.2 ft<sup>2</sup> (4800 cm<sup>2</sup>)

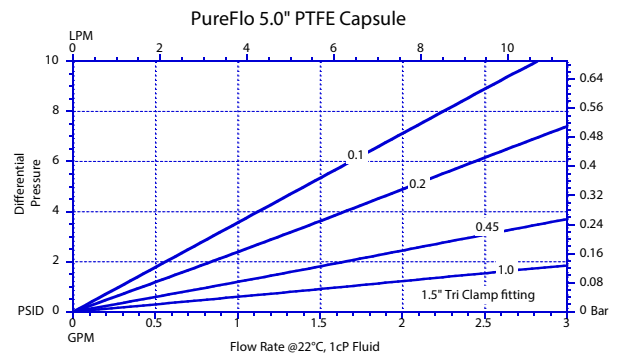
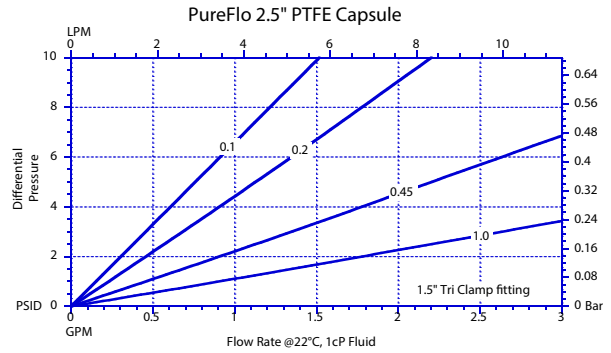
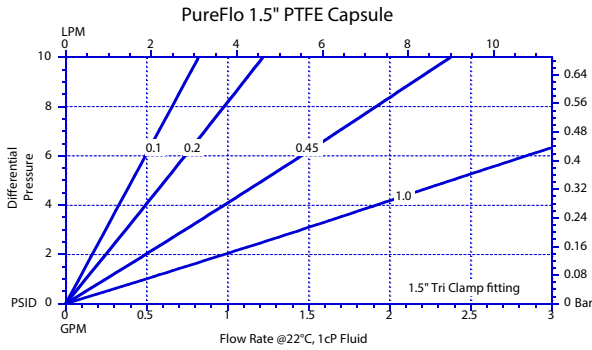
### Operating Conditions

Maximum Operating Pressure:  
 Liquid: 5.5 bar (80psi) at 77°F/25°C  
 Gas: 4.1 bar (60psi) at 77°F/25°C  
 Minimum Burst Pressure: 8.3 bar (120psi) at 77°F/25°C  
 Maximum Forward Differential Pressure:  
 4.21 bar (60psi) at 68°F/20°C  
 Maximum Reverse Differential Pressure:  
 2.1 bar (30psi) at 68°F/20°C  
 Maximum Operating Temperature:  
 PP & Gamma PP: 176°F/80°C  
 HDPE: 140°F/6 0°C

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



## PureFlo® PTFE Filter Capsules



Note - Graphs based on Sanitary fittings.

Inlet/Outlet Fittings	Vent and Drain fittings
1H = 1/8" Hose bars	Luer Lock
1NF = 1/8" FNPT	Luer Lock
2C = 1/4" Compression	1/4" Comp
2H = 1/4" to 1/2" Hose bars	Luer Lock
2HS = 1/4" to 3/8" Hose bars	Luer Lock
2L = Large Female Luer Lock fitting	Luer Lock
2N = 1/4" MNPT	Luer Lock
2NF = 1/4" FNPT	Luer Lock
2Q = 1/4" Male Quick Coupling	Luer Lock
2QF = 1/4" Female Quick Coupling	Luer Lock
2QFP = 1/4" Female Quick Coupling with Plastic latch	Luer Lock
2QP = 1/4" Male Quick Coupling for Plastic latch	Luer Lock
3C = 3/8" Compression	1/4" Comp
3H = 3/8" Hose Barb (future)	Luer Lock
3HE = 3/8" Hose Barb Elbow	Luer Lock
3NF = 3/8" FNPT	Luer Lock
4C = 1/2" Compression	1/4" Comp
4H = 1/2" Hose Barb (future)	Luer Lock
4N = 1/2" MNPT	Luer Lock
4QP = 1/2" Male Quick Coupling for Plastic latch	Luer Lock
MT = 0.5" Tri clamps	Luer Lock
TC = 1-1/2" Tri clamp	Luer Lock

Option: Plugged and Cut off Vent and/or Drains

### PureFlo PTFE Filter Cartridge Ordering Guide

PureFlo Capsule Filters	Vent & Drain Fitting	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options	
70mm Diameter Capsule	L = Female Luer Lock	F = PTFE	010 = 0.1	H = 1.5"	1H = 1/8" Hose bars	1H = 1/8" Hose bars	-GP = Gamma stable polypropylene shell -NY = Nylon Construction -FB = Filling bell -FC = Filling bell with Cap -ETO = Ethylene oxide sterilization -NI = No vent or drain inlet fitting -NO = NO vent or drain Outlet fitting -E = Polyethylene shell and HDPE media support for gamma sterilization	
	P = M8 Threaded Plug - Limited options		020 = 0.2	S = 2.5"	1NF = 1/8" FNPT	1NF = 1/8" FNPT		-OE = O-ring EPDM
	N = No vent or		045 = 0.45	L = 5"	1Q = 1/8" Male Quick Coupling for Metal latch	1Q = 1/8" Male Quick Coupling for Metal latch		-ON = O-ring Nitrile
			100 = 1.0	E = 7.5"	1QF = 1/8" Female Quick Coupling w/Metal latch	1QF = 1/8" Female Quick Coupling w/Metal latch		-OV = O-ring Viton
			300 = 3.0		2H = 1/4" to 1/2" Hose bars	2H = 1/4" to 1/2" Hose bars		Blank = O-ring Silicon (Standard)
			500 = 5.0		2HS = 1/4" to 3/8" Hose bars	2HS = 1/4" to 3/8" Hose bars		PreFilters
			999 = 10.0		2L = Large Female Luer Lock fitting	2LF = Large Female Luer Lock fitting		-G(pore Size) = Glass Fiber PreFilter
					2N = 1/4" MNPT	2N = 1/4" MNPT		-P(pore Size) = PolyPro Media PreFilter
					2NF = 1/4" FNPT	2NF = 1/4" FNPT		-S(pore Size) = PES PreFilter
					2Q = 1/4" Male Quick Coupling for Metal latch	2Q = 1/4" Male Quick Coupling for Metal latch		
		2QF = 1/4" Female Quick Coupling w/Metal latch	2QF = 1/4" Female Quick Coupling w/Metal latch					
		2QFP = 1/4" Female Quick Coupling w/Plastic latch	2QFP = 1/4" Female Quick Coupling w/Plastic latch					
		2QP = 1/4" Male Quick Coupling for Plastic latch	2QP = 1/4" Male Quick Coupling for Plastic latch					
		3H = 3/8" Hose Barb	3H = 3/8" Hose Barb					
		3HE = 3/8" Hose Barb Elbow	3HE = 3/8" Hose Barb Elbow					
		3NF = 3/8" FNPT	3NF = 3/8" FNPT					
		4H = 1/2" Hose Barb	4H = 1/2" Hose Barb					
		4N = 1/2" MNPT	4N = 1/2" MNPT					
		4QP = 1/2" Male Quick Coupling for Plastic latch	4QP = 1/2" Male Quick Coupling for Plastic latch					
		MT = 1/2" Tri clamps	MT = 1/2" Tri clamps					
		TC = 1-1/2" Tri clamp	TC = 1-1/2" Tri clamp					

Example - Capsule, Luer Lock V/D, 2.5" Internal filter, 0.2 micron PTFE Capsule, Standard Grade, with 1.5" Tri-Clamp fittings would be SKLF020STCC

Quick Couplings are molded. Female Quick Coupling with Plastic latch will be threaded on, compatible with GPC (Colder), LinkTech and others.



### International Filter Products

www.internationalfilterproducts.com  
 7914 Ajay Dr., Sun Valley, CA 91352  
 Phone: (818) 504-8115  
 Email: sales@internationalfilterproducts.com