

# PureFlo® Polypropylene Filter Capsules

PureFlo® Polypropylene filter capsules are highly retentive, pleated polypropylene media filters that have been specially designed for clarification and pre-filtration applications.

The graded porosity design removes particles in sequence by size – larger particles by the more open outer layers and smaller particles by the tighter inner layers. The outer layers act as a pre-filter while the inner layers provide the absolute rating at the specified pore size. This efficiently spreads the contaminants throughout the media matrix resulting in superior contaminant holding capacity, lifetime, and pressure drop as compared to other media cartridges.

No adhesives, binders, or surfactants are used in the manufacturing process. The non-woven media does not allow for migration into the process fluid, thereby minimizing the potential for extractables and downtime. Furthermore, the all-polypropylene construction provides excellent thermal and chemical compatibility with low and high pH chemicals.

PureFlo Polypropylene filter capsules are absolute rated to ensure consistent filter performance each and every time out of the package. Available in a wide range of micron ratings.

Applications	
Acids & Bases	Ink Jets
Process Water	Beverages
Solvents	Pharmaceuticals
Fine Chemicals	Biologics
Plating Solutions	Dyes

### Sterilization

The filters can be sterilized by autoclaving for up to 25 cycles at 125°C (250°F) for 60 minutes. The filters can also be sanitized by steam-in-place procedure at 135°C (275°F) for three 20 minute cycles at less than 0.3 bar differential pressure. The filters are also sanitized by hot water or common chemicals that are compatible with polypropylene.



### Materials of Construction

Media: Non-Woven Polypropylene  
 Media Supports: Polypropylene  
 Cage, Core, End Caps: Polypropylene  
 Fitting Connections: MNPT, FNPT, 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 (275 mm)  
 Length: 10 in (340mm)  
 Diameter: 2.75 in (70 mm)

### Available Micron Ratings

0.3, 0.6, 1, 3, 5, 10, 20, 30, 50, and 70 microns

### Effective Filtration Area

1.5 in - 0.65 ft<sup>2</sup> (600 cm<sup>2</sup>)  
 2.5 in - 1.3 ft<sup>2</sup> (1200 cm<sup>2</sup>)  
 5.0 in - 2.7 ft<sup>2</sup> (2400 cm<sup>2</sup>)  
 7.5 in - 4.3 ft<sup>2</sup> (3980 cm<sup>2</sup>)  
 10 in - 5.2 ft<sup>2</sup> (4800 cm<sup>2</sup>)

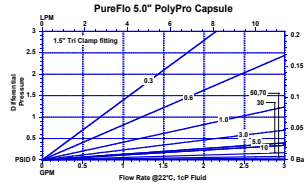
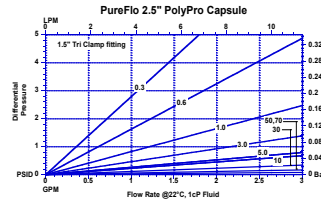
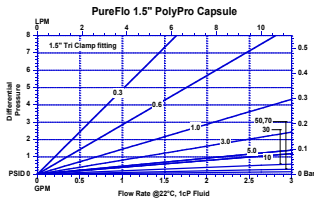
### Operating Conditions

Maximum Forward Differential Pressure:  
 4.1 bar (60 psid) at 40°C  
 Maximum Reverse Differential Pressure:  
 2.0 bar (30 psid) at 20°C  
 Maximum Operating Temperature:  
 80° C  
 Maximum Liquid Operating Pressure:  
 5.1 bar (75psig) at 20°C  
 Maximum Gas Operating Pressure:  
 3.4 bar (50psig) at 20°C

### Regulatory Compliance

The filters are constructed with polypropylene resins and filtration media in compliance with 21CFR Part 177 of the US Code of Federal Regulations and USP Class VI Biological Test for Plastics.

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Note - Graphs based on Sanitary fittings.

### PureFlo Polypropylene 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	P = Polypropylene	003 = 0.3	H = 1.5"	1C = 1/8" compression (JACO)	1C	<b>Packaging</b>
		006 = 0.6	S = 2.5"	1H = 1/8" Hose Barb	1H	Blank = Bulk Packaged
		010 = 1.0	L = 5"	1N = 1/8" NPTM	1N	- 1 = Single Bagged
		030 = 3.0	E = 7.5"	1NF = 1/8" FNPT	1NF	<b>Grade</b>
		050 = 5.0	K = 10"	1Q = 1/8" Male Quick Coupling	1Q	-Blank = Standard Grade
		070 = 7.0		1QE = 1/8" Male Quick Coupling Elbow	1QE	-B = Biological Reduction Grade
		100 = 10.0		1QF = 1/8" Female Quick Coupling	1QF	<b>Shell Material</b>
		200 = 20.0		1QV = 1/8" Quick Valved Coupling	1QV	Blank = Polypropylene
		300 = 30.0		1QVF = 1/8" Female Quick Valved Coupling	1QVF	- E = Polyethylene Shell (for Gamma Stability)
		400 = 40.0		2C = 1/4" Compression	2C	-GP = GammaStable Polypropylene Shell
		500 = 50.0		2H = 1/4"-1/2" Hose Barb	2H	-NY = Nylon Shell
		700 = 70.0		2H-FB = 1/4" Hose Barb with Filling Bell	2H-FB	<b>Sterilization</b>
		10X = 100		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" Pust 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				

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