

PureFlo® Hi Performance PP Media Filter Capsules

PureFlo® Hi Performance Polypropylene Media filter capsules are 98% retentive. The media is made up of small diameter fibers that removes particles with limited flow or pressure drop loss. The fine fibers are only 1-5µm wide allowing for increased efficiency with a lower pressure drop. They are pleated to provide maximum filtration area for higher throughput. The design has been optimized for clarification and pre-filtration applications.

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

PureFlo Hi Performance Polypropylene filter capsules are 98% rated to ensure consistent filter performance each and every time out of the package. Available in a wide-variety of micron sizes.



Materials of Construction

Media: Fine Fiber Non-Woven Polypropylene Media
 Media Supports: Polypropylene
 Cage, Core, End Caps: Polypropylene
 Fitting Connections: MNPT, FNPT,
 Compression, Hose Barb, Sanitary Flange

Dimensions (Nominal)

Length: 1.5 in (68 mm) Length: 2.5 in (98 mm)
 Length: 5.0 in (153 mm) Length: 7.5 in (221 mm)
 Length: 10 in (276mm)
 Diameter: 2.88 in (73 mm)

Effective Filtration Area

1.5 in - 0.65 ft² (600 cm²) 2.5 in - 1.3 ft² (1200 cm²)
 5.0 in - 2.7 ft² (2400 cm²) 7.5 in - 4.3 ft² (3980 cm²)
 10 in - 5.2 ft² (4800 cm²)

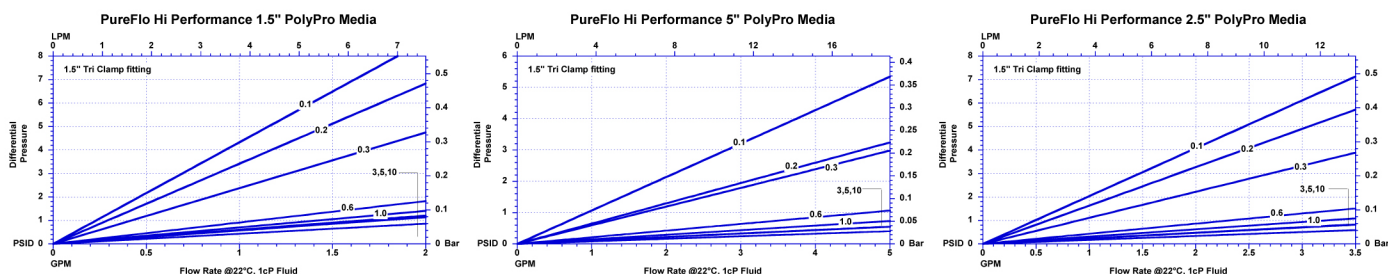
Operating Conditions

Maximum Operating Pressure:
 Liquid: 5.5 bar (80psi) at 72°F/22°C
 Gas: 4.1 bar (60psi) at 72°F/22°C
 Minimum Burst Pressure:
 8.3 bar (120psi) at 72°F/22°C
 Maximum Forward Differential Pressure:
 4.1 bar (60psi) at 72°F/22°C
 Maximum Reverse Differential Pressure:
 2.1 bar (30psi) at 72°F/22°C
 Maximum Operating Temperature: 176°F/80°C

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

Features	Benefits
<ul style="list-style-type: none"> ■ 98% Rated Pleated Polypropylene Media 	<ul style="list-style-type: none"> ■ The fine fiber media matrix removes particles with a high efficiency ■ High flow rates and low pressure drops ■ Superior filter lifetime and process throughputs ■ Consistent and reproducible particulate removal
<ul style="list-style-type: none"> ■ 100% Polypropylene Disposable Capsule 	<ul style="list-style-type: none"> ■ Excellent thermal and chemical compatibility ■ No media migration ■ 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

PureFlo® Hi Performance PP Media Filter Capsules



Autoclavable & Sanitizable

Capsules can be autoclaved 25 times at 257°F/125°C for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 194°F/90°C for a limited time (dependent on time and temperature). Capsules must not be in situ steam-sterilized.

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.

PureFlo Hi Performance Polypropylene media capsule Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Length	Inlet Fitting	Outlet Fitting	Options	
SKL = Capsule filter Standard grade Luer Lock Vent/Drain	HP = Hi Performance PP Media	001 = 0.1	H = 1.5"	1C	1C = 1/8" Compression	Grade	O-Ring for Quick Coupling
		002 = 0.2	S = 2.5"	1H	1H = 1/8" Hose barbs	Blank = Standard Grade	Blank = O-ring Silicone
SKP = Capsule filter Standard grade M8 Plug vent/ Drain <u>Limited Options</u>		003 = 0.3	L = 5"	1N	1N = 1/8" MNPT	-B = Biological Reduction Grade	-OE = O-ring EPDM
		006 = 0.6	E = 7.5"	1NF	1NF = 1/8" FNPT	-PH = Pharma Grade	-ON = O-ring Nitrile
		010 = 1.0	K = 10"	1Q	1Q = 1/8" Male Quick Coupling with Metal latch	Shell Material	-OV = O-ring Viton
		030 = 3.0		1QF	1QF = 1/8" Female Quick Coupling with Metal latch	Blank = Polypropylene	
		050 = 5.0		1QFV	1QFV = 1/8" Female Valved Quick Coupling with Metal latch	-BLK = Black polypropylene shell	
		100 = 10.0		1QV	1QV = 1/8" Male Valved Quick Coupling with Metal latch		PreFilter (add before Filter Media in part#)
				2C	2C = 1/4" Compression		G(pore Size) = Glass Fiber PreFilter
				2H	2H = 1/4" to 1/2" Hose barbs		P(pore Size) = PolyPro Media PreFilter
				2HS	2HS = 1/4" to 3/8" Hose barbs		S(pore Size) = PES PreFilter
				2LF	2LF = Large Female Luer Lock fitting		
				2N	2N = 1/4" MNPT	Vent & Drain	
				2NF	2NF = 1/4" FNPT	-N = No vent or Drain	
				2P	2P = 1/4" Push to Connect	-NI = No vent or Drain	
				2PE	2PE = 1/4" Push to Connect Elbow	-NO = No vent or Drain	
				2Q	2Q = 1/4" Male Quick Coupling for Metal latch		
				2QF	2QF = 1/4" Female Quick Coupling with Metal latch		
				2QFP	2QFP = 1/4" Female Quick Coupling with Plastic latch		
				2QFV	2QFV = 1/4" Female Valved Quick Coupling with Metal latch		
				2QP	2QP = 1/4" Male Quick Coupling for Plastic latch	Sterilization	
				2QV	2QV = 1/4" Male Valved Quick Coupling with Metal latch	-ETO = Ethylene Oxide	
				2V	2V = 1/4" Walther Quick Connect		
				3C	3C = 3/8" Compression		
				3H	3H = 3/8" Hose Barb		
				3HE	3HE = 3/8" Hose Barb Elbow		
					3H-FB = 3/8" Hose Barb with filling bell or -FC with Cap		
				3NF	3NF = 3/8" FNPT		
				4C	4C = 1/2" Compression		
				4H	4H = 1/2" Hose Barb		
				4N	4N = 1/2" MNPT		
				4Q	4Q = 1/2" Male Quick Coupling for Plastic latch		
				8C	8C = 5/16" Compression		
				MT	MT = 1/2" Tri clamps		
				TC	TC = 1-1/2" Tri clamp		
					TS = Shower Head		
Example - Capsule, Luer Lock V/D, 2.5" Internal filter, 5 micron HI Performance PP Media Capsule, with 1.5" Tri-Clamp fittings would be SKLHP050STCTC							
Quick Couplings are molded. Female Quick Coupling with Plastic latch will be threaded on, compatible with CPC (Colder), LinkTech and others.							