

# PureFlo® Polypropylene Membrane Filter Capsules

PureFlo® polypropylene membrane filter capsules are highly retentive and naturally hydrophobic filters. Polypropylene membrane is a reliable choice for the purification of aggressive chemicals, compressed gases, and vent applications. The all-polypropylene construction is an excellent economic alternative to the more expensive fluoropolymer based medias.

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

PureFlo polypropylene membrane filter capsules are absolute rated to ensure consistent filter performance each and every time. All filter capsules are 100% integrity tested to ensure filter performance.



### Materials of Construction

- Membrane: Polypropylene (hydrophobic)
- Membrane Supports: Polypropylene
- Cage, Core, End Caps: Polypropylene
- Fitting Connections: MNPT, FNPT, Flare 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: 10 in (340mm)
- Diameter: 2.75 in (70 mm)

### Effective Filtration Area

- 1.5 in: 0.7 ft<sup>2</sup> (650 cm<sup>2</sup>)
- 2.5 in: 1.4 ft<sup>2</sup> (1300 cm<sup>2</sup>)
- 5.0 in: 2.7 ft<sup>2</sup> (2500 cm<sup>2</sup>)
- 10 in: 5.4 ft<sup>2</sup> (5000 cm<sup>2</sup>)

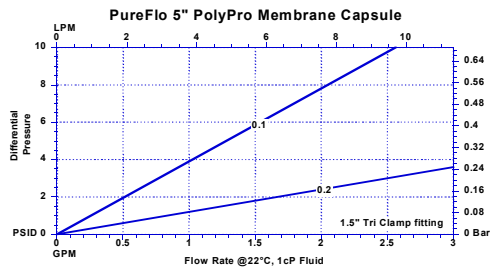
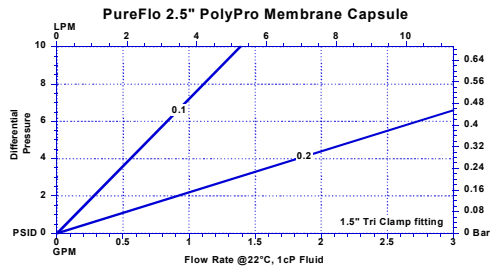
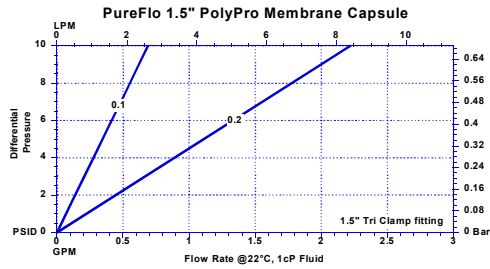
### Operating Conditions

- 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

Applications	
Acids	Ink Jets
Bases	Tank vents
Solvents	Lacquers
Fine Chemicals	Dyes

Features	Benefits
<ul style="list-style-type: none"> <li>■ Absolute Rated Polypropylene Membrane</li> </ul>	<ul style="list-style-type: none"> <li>■ Consistent and reproducible particulate removal</li> <li>■ High flow rates and low pressure drops</li> <li>■ Superior filter lifetime and process throughputs</li> <li>■ Consistent and reproducible particulate removal</li> </ul>
<ul style="list-style-type: none"> <li>■ 100% Polypropylene Disposable Capsule</li> </ul>	<ul style="list-style-type: none"> <li>■ Excellent thermal and chemical compatibility</li> <li>■ Rapid installation and reduced downtime</li> <li>■ Reduced chemical handling and hazardous waste disposal</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 manufacturing resulting in superior downstream cleanliness</li> </ul>

## PureFlo® Polypropylene Membrane Filter Capsules



Note - Graphs based on Sanitary fittings.

### 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.

### Autoclavable /Sanitizable

Capsules may be autoclaved up to 10 times (30 minutes) at 266°F (130°C), or chemically sanitized in situ using common sanitizing agents. The capsules can also be sanitized with hot water at up to 194°F (90°C)

Inlet/Outlet Fittings	Vent and Drain fittings
1H = 1/8" Hose barb	Luer Lock
1NF = 1/8" FNPT	Luer Lock
2C = 1/4" Compression	1/4" Comp
2H = 1/4" to 1/2" Hose barb	Luer Lock
2HS = 1/4" to 3/8" Hose barb	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 Polypropylene Membrane Filter Cartridge Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options
SKL	M = PolyPro Membrane	010 = 0.1 020 = 0.2	H = 1.5" S = 2.5" L = 5" K = 10"	1H = 1/8" Hose barb 1NF = 1/8" FNPT 2C = 1/4" Compression 2H = 1/4" to 1/2" Hose barb 2HS = 1/4" to 3/8" Hose barb 2L = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling 2QF = 1/4" Female Quick Coupling 2QFP = 1/4" Female Quick Coupling with Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3C = 3/8" Compression 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4C = 1/2" Compression 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 0.5" Tri clamps TC = 1-1/2" Tri clamp	1H = 1/8" Hose barb 1NF = 1/8" FNPT 2C = 1/4" Compression 2H = 1/4" to 1/2" Hose barb 2HS = 1/4" to 3/8" Hose barb 2L = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling 2QF = 1/4" Female Quick Coupling 2QFP = 1/4" Female Quick Coupling with Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3C = 3/8" Compression 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4C = 1/2" Compression 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 0.5" Tri clamps TC = 1-1/2" Tri clamp	Blank = Polypropylene -E = Polyethylene Shell and PET media support for Gamma Sterilization -GP = Gamma Stable Polypropylene Shell -N = No vent or Drain fittings -NI = No vent or Drain inlet fitting -NO = No vent or Drain
<b>Example</b> - 2.5", 0.2 micron Polypropylene Membrane Capsule, with 1.5" TriClamp fittings would be SKLM020STCTC						
Male Quick Couplings are molded, Female Quick Coupling with Plastic latch only will be threaded on, compatible with CPC (Colder), LinkTech and other compatible couplings.						

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