PureFlo® Polypropylene Membrane Filter Capsules

PureFlo® polypropylene membrane filter capsules are highly retentive and naturally hydrophobic filtersPolypropylene 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.

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



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: 7.5 in (270 mm)

Length: 10 in (340mm) Diameter: 2.75 in (70 mm)

Effective Filtration Area

1.5 in: 0.7 ft ² (650 cm²) 2.5 in: 1.4 ft ² (1300 cm²) 5.0 in: 2.7 ft ² (2500 cm²) 7.5 in: 4.3 ft ² (3980 cm² 10 in: 5.4 ft ² (5000 cm²)

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:

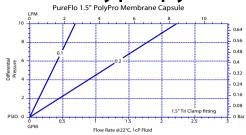
PP & Gamma PP: 176°F/80°C

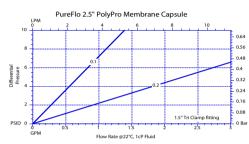
HDPE: 140°F/6 0°C

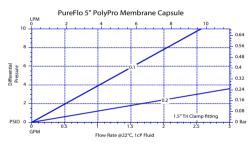
Features	Benefits
Absolute Rated Polypropylene Membrane	Consistent and reproducible particulate removal
	High flow rates and low pressure drops
	Superior filter lifetime and process throughputs
	Consistent and reproducible particulate removal
100% Polypropylene Disposable Capsule	Excellent thermal and chemical compatibility
	Rapid installation and reduced downtime
	Reduced chemical handling and hazardous waste disposal
Low Filter Extractables	No adhesives, binders, or surfactants are used during manu- facturing resulting in superior downstream cleanliness

ZenPure

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°O

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

PureFlo Capsule Filters Vent & Drain Fitting	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options	
Filters SK L = Female Lock P = M8 Th Plug - Limit Diameter Capsule N = No ve drain fitting	M = PolyPro Aded Membrane	010 = 0.1 020 = 0.2	S = 2.5" L = 5" E = 7.5"	IH = 1/8" Hose barbs 1NF = 1/8" RNPT 1Q = 1/8" Male Quick Coupling for Metal latch 1QF = 1/8" Female Quick Coupling w/Metal latch 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2HF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" RNPT 2Q = 1/4" Female Quick Coupling w/Metal latch 2QF = 1/4" Female Quick Coupling w/Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3HF = 3/8" Hose Barb 3HF = 3/8" Hose Barb 3NF = 3/8" FNPT 4H = 1/2" Hose Barb 4N = 1/2" MNPT	1Q = 1/8" Male Quick Coupling for Metal latch 1QF = 1/8" Female Quick Coupling w/Metal latch 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Female Quick Coupling w/Metal latch 2QF = 1/4" Male Quick Coupling w/Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3HS + 180E Barb 3HS = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4H = 1/2" MNPT	-FB = Filling bell w/Cap -FC = Filling bell w/Cap -ETO = Ethylene oxide sterilization -NI = No vent or drain inlet fitting -NO = NO vent or drain Outlet fitting -E = Polyethylene shell	O-Ring for Quick Coupling -OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton Blank = O-ring Silicon (Standard) PreFilters -G(pore Size) = Glass Fiber PreFilter -P(pore Size) = PolyPro Media PreFilter -P(pore Size) = PES PreFilter
				4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp	4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp		

International Filter Products Revolutionary systems for your industry



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