

PureFlo® PES Filter Capsules

PureFlo® PES Filter Capsules have been specially designed for simple, quick, and efficient filtration of fluids and gases used in laboratory, pilot, and small-scale applications. The PES membrane in an all-polypropylene construction provides excellent chemical compatibility and superior flow per surface area as compared to other membrane cartridges. No adhesives, binders, or surfactants are used in the manufacturing process and all capsules are rinsed with high-purity water to reduce extractables and downtime.

The hydrophilic PES membrane does not require pre-wetting with IPA and flushing with DI water, thereby eliminating a potential source of contamination and hazardous waste. In addition, unlike hydrophobic filters such as PTFE the hydrophilic membrane reduces the potential for bubble formation by not de-wetting in out-gassing fluids. All filter capsules are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo PES filter capsules are well-suited for applications where superior flow and particle removal efficiency at 0.04, 0.1, 0.2, 0.45, 0.65, 0.80 and 1.2 micron is required.



Materials of Construction

Membrane: Hydrophilic Polyethersulfone
 Membrane Supports: Polypropylene
 Cage, Core, End Caps: Polypropylene
 Fitting Connections: NPT, Compression, Sanitary Flange, Hose Barb

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 0.77 ft² (720 cm²)
 2.5 in 1.48 ft² (1380 cm²)
 5.0 in 2.8 ft² (2600 cm²)
 10 in - 5.6 ft² (5200 cm²)

Operating Conditions

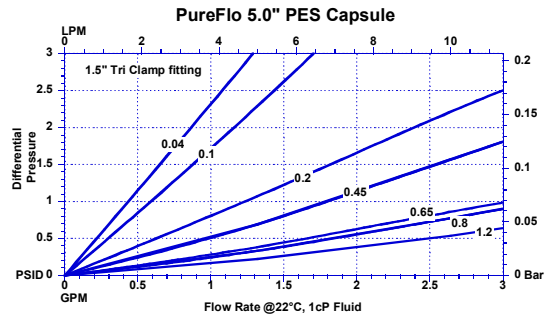
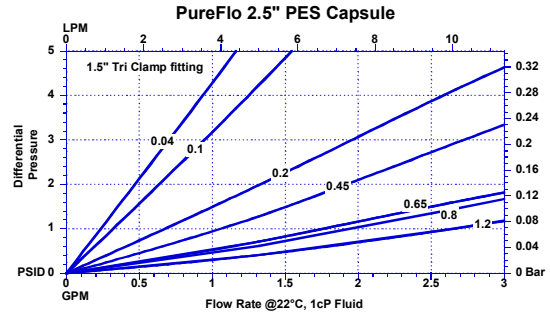
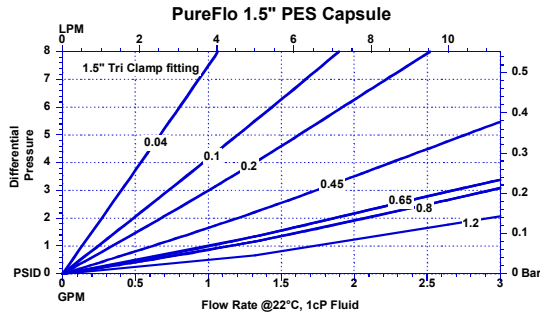
Maximum Forward Differential Pressure:
 4.0 bar (58 psid) at 20°C
 Maximum Reverse Differential Pressure:
 2.0 bar (29 psid) at 20°C
 Maximum Operating Temperature: 60° C

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.

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"> Hydrophilic PES Membrane 	<ul style="list-style-type: none"> IPA pre-wetting not required – thereby eliminating a potential source of contamination and disposal waste Economic alternative to PTFE
<ul style="list-style-type: none"> Fully Disposable Capsule 	<ul style="list-style-type: none"> Rapid installation Reduced downtime Reduced handling of hazardous chemicals
<ul style="list-style-type: none"> Small Compact Design 	<ul style="list-style-type: none"> Simple, quick, and efficient filtration Low hold-up volume reduces the chemical waste 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 used Capsules are rinsed with high-purity water



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 PES Filter Capsule Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options
SKL	S = PES	004 = 0.04um 010 = 0.1um 020 = 0.2um 050 = 0.45um 065 = 0.65um 080 = 0.8um 120 = 1.2um	H = 1.5" S = 2.5" L = 5" K = 10"	1H = 1/8" Hose bars 1NF = 1/8" FNPT 2C = 1/4" Compression 2H = 1/4" to 1/2" Hose bars 2HS = 1/4" to 3/8" Hose bars 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 bars 1NF = 1/8" FNPT 2C = 1/4" Compression 2H = 1/4" to 1/2" Hose bars 2HS = 1/4" to 3/8" Hose bars 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	-N = No vent or Drain fittings -NI = No vent or Drain inlet fitting -NO = No vent or Drain Outlet fitting -FB = Filling Bell
Example - 2.5", 0.2 micron PES Capsule, with 1.5" TriClamp fittings would be SKLS020STCTC						
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.						

Your Local Distributor:

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