

PureFlo® PTFE Filter Capsules

PureFlo® PTFE filter capsules are highly retentive hydrophobic PTFE membrane filters that have been specially designed for critical applications. The PTFE membrane in an all-polypropylene construction provides excellent chemical compatibility and superior flow per unit area as compared to other membrane capsules. No adhesives, binders, or surfactants are used in the manufacturing process.

The hydrophobic PTFE membrane is ideally suited for aggressive chemicals such as acids, bases, and solvents. In addition, the hydrophobic membrane provides superior flow and pressure-drop characteristics per unit area for gas filtration and tank venting applications. All filter capsules are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo PTFE filter capsules are well-suited for critical applications where superior flow and particle removal efficiency at 0.1 to 10.0 micron is required.

Applications	
Acids	Ink Jets
Bases	Electronics
Solvents	Pharmaceuticals
Fine Chemicals	Venting
Plating Solutions	Dyes
Process Water	Lacquers

Regulatory Compliance

Manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regulations



Materials of Construction

Membrane: Hydrophobic PTFE
 Membrane Supports: Polypropylene
 Cage, Core, End Caps, Capsule: Polypropylene
 Fitting Connections: MNPT, FNPT, Quick Couplings, 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

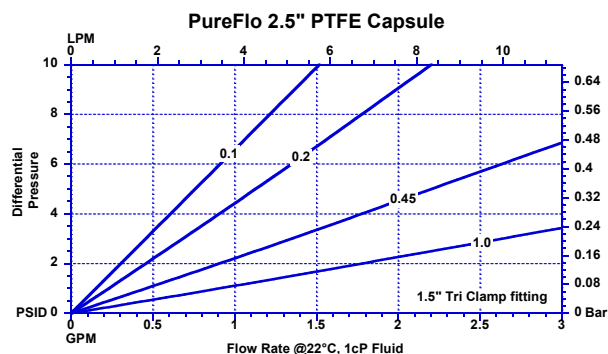
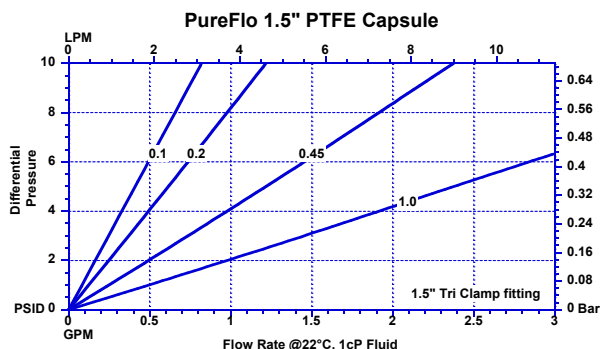
1.5 in - 0.65 ft² (650 cm²) 2.5 in - 1.3 ft² (1250 cm²)
 5.0 in - 2.7 ft² (2400 cm²) 7.5 in - 4.3ft² (3980 cm²)
 10 in - 5.2 ft² (4800 cm²)

Operating Conditions

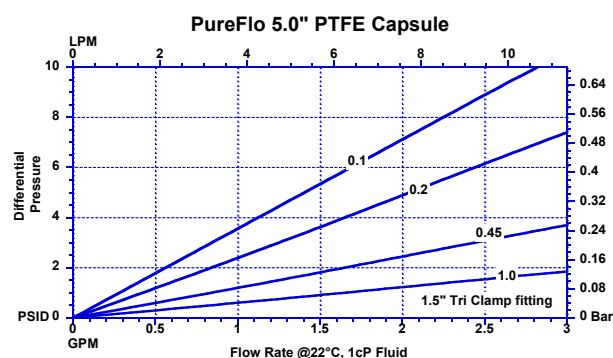
Maximum Operating Pressure:
 Liquid: 5.5 bar (80psi) at 77°F/25°C
 Gas: 4.1 bar (60psi) at 77°F/25°C
 Minimum Burst Pressure: 8.3 bar (120psi) at 77°F/25°C
 Maximum Forward Differential Pressure:
 4.21 bar (60psi) at 68°F/20°C
 Maximum Reverse Differential Pressure:
 2.1 bar (30psi) at 68°F/20°C
 Maximum Operating Temperature:
 PP & Gamma PP: 176°F/80°C
 HDPE: 140°F/60°C

Features	Benefits
■ Naturally Hydrophobic PTFE Membrane	■ High flow rates with low pressure drop per unit area as compared to other filter materials ■ Superior filter lifetime and process throughputs
■ Wide Chemical & Thermal Compatibility	■ Provides excellent compatibility with a wide-range of chemicals such as acids, bases, and solvents ■ No media migration into the process fluid
■ Low Filter Extractables	■ No adhesives, binders, or surfactants are used during the manufacturing process resulting in superior downstream cleanliness ■ All cartridges are rinsed with high-purity water to reduce extractables and downtime
■ Quality Manufacturing	■ Consistent and reproducible particulate removal

PureFlo® PTFE Filter Capsules



Inlet/Outlet Fittings	Vent and 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" 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	



Note - Graphs based on Sanitary fittings.

PureFlo PTFE Filter Cartridge Ordering Guide

PureFlo Capsule Filters	Vent & Drain Fitting	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options
SK 70mm Diameter Capsule	L = Female Luer Lock P = M8 Threaded Plug - Limited options N = No vent or	F = PTFE	010 = 0.1 020 = 0.2 045 = 0.45 100 = 1.0 300 = 3.0 500 = 5.0 999 = 10.0	H = 1.5" S = 2.5" L = 5" E = 7.5" K = 10"	1H = 1/8" Hose barbs 1NF = 1/8" FNPT 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 2QFP = 1/4" Female Quick Coupling w/Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp	1H = 1/8" Hose barbs 1NF = 1/8" FNPT 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 2QFP = 1/4" Female Quick Coupling w/Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp	-GP = Gamma stable polypropylene shell -NY = Nylon Construction -FB = Filling bell -FC = Filling bell with Cap -ETO = Ethylene oxide sterilization -NI = No vent or drain inlet fitting -NO = NO vent or drain Outlet fitting -E = Polyethylene shell and HDPE media support for gamma sterilization -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 -S(pore Size) = PES PreFilter
Example - Capsule, Luer Lock V/D, 2.5" Internal filter, 0.2 micron PTFE Capsule, Standard Grade, with 1.5" Tri-Clamp fittings would be SKLF020STCTC							
Quick Couplings are molded. Female Quick Coupling with Plastic latch will be threaded on, compatible with CPC (Colder), LinkTech and others.							

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