ZenPure

PureFlo® Polyethylene Filter Capsules

PureFlo® Polyethylene filter capsules are highly retentive hydrophobic membrane filters that have been specially designed for critical applications. The PE 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 and all cartridges are rinsed with highpurity water to reduce extractables and downtime.

The hydrophobic PE membrane is gamma stable and ideally suited for sterile applications. In addition, the hydrophobic membrane provides superior flow and pressure drop characteristics per surface 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 PE filter capsules are well-suited for critical applications where superior flow and particle removal efficiency at 0.2 to 2.5 micron is required.

Applications						
Sterile gasses and liquids	Ink Jets					
Bases	Beverages					
Solvents	Pharmaceuticals					
Fine Chemicals	Biologics					
Plating Solutions	Dyes					
Process Water	Lacquers					



Materials of Construction

Membrane: Hydrophobic Polyethylene Membrane Supports: Polypropylene

Cage, Core, End Caps, Capsule: Polypropylene

Fitting Connections: MNPT, FNPT, Quick Couplings, Compres-

sion, 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 (270mm)

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

Effective Filtration Area

1.5 in - 0.65 ft² (500 cm²) 2.5 in - 1.3 ft² (1000 cm²) 5.0 in - 2.7 ft² (1900 cm²) 7.5 in - 4.3 ft² (2900 cm²)

10 in - 5.2 ft² (3800 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:

5 bar (72psi) at 68°F/20°C

Maximum Reverse Differential Pressure:

3.0 bar (44psi) at 68°F/20°C

Maximum Operating Temperature:140°F/60°C

Regulatory Compliance

Manufactured from materials that conform to the requirements of 21CFR Part 177 of the U.S. Code of Federal Regs and USP Class VI Biological Test for Plastics

Features	Benefits
Naturally Hydrophobic PE Membrane	High flow rates with low pressure drop per surface area as compared to other filter materials Superior filter lifetime and process throughputs
Wide Chemical & Thermal Compatibility	Provides excellent compatibility with a widerange 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 highpurity water to reduce extractables and downtime
Quality Manufacturing	Consistent and reproducible particulate removal

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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" 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 Polyethylene 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 Plug - Limited Options N = No vent or drain fittings	E = Polyethylene	020 = 0.20 100 = 1.0 150 = 1.5 250 = 2.5	S = 2.5" L = 5" E = 7.5" K = 10"	2QF = 1/4" Female Quick Coupling w/Metal latch	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 2H = 1/4" to 3/8" Hose barbs 2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2N = 1/4" FMPT 2Q = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Female Quick Coupling w/Metal latch 2QF = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Male Quick Coupling for Metal latch	sterilization -NI = No vent or drain inlet fitting -NO = NO vent or drain Outlet fitting	-ON = O-ring Nitrile
Ouick Counlings	Example - SK Series Capsule, Luer Lock V/D, 2.5" Internal filter, 1.5 micron Polyethylene Capsule, Standard Grade, with 1.5" Tri-Clamp fittings would be SKLPE150STCTC uickCouplings are molded, Female Quick Coupling with Plastic latch will be threaded on, compatible with CPC (Colder), LinkTechand others.							





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