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		
5K 70mm Diameter Capsule	L = Female Luer Lock P = M8 Threaded Plug - <u>Limited</u> <u>options</u> 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"	IH = 1/8" Hose barbs INF = 1/8" FNPT IQ = 1/8" Male Quick Coupling for Metal latch IQF = 1/4" to 1/2" Hose barbs 2H = 1/4" to 1/2" Hose barbs 2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2N = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Female Quick Coupling Windtal latch 2QF = 1/4" Female Quick Coupling Windtal latch 2QF = 1/4" Female Quick Coupling for 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" 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	2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch	sterilization -NI = No vent or drain inlet fitting -NO = NO vent or drain Outlet fitting -E = Polyethylene shell	-ON = O-ring Nitrile	
Ouick Couplings	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 Duck Couplings are molded, Female Quick Coupling with Plastic latch will be threaded on, compatible with CPC (Colder), LinkTechand others.								



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