ZenPure

PureFlo® Polypropylene Filter Capsules

PureFlo® Polypropylene filter capsules are highly retentive, graded porosity, pleated polypropylene media filters that have been specially designed for clarification and prelitration applications.

The graded porosity design removes particles in sequence by size – larger particles by the more open outer layers and smaller particles by the tighter inner layers. The outer layers act as a prefilter while the inner layers provide the absolute rating at the specified pore size. This efficiently spreads the contaminants throughout the media matrix resulting in superior contaminant holding capacity, lifetime, and pressure drop as compared to other media cartridges.

No adhesives, binders, or surfactants are used in the manufacturing process The norwoven media does not allow for migration into the process fluid, thereby reducing the potential for extractables and downtime. Furthermore, the all polypropylene construction provides excellent thermal and chemical compatibility with low and high pH chemicals.

PureFlo Polypropylene filter capsules are absolute rated to ensure consistent filter performance each and every time out of the package. Available in a wide-variety of micron sizes.

Applications					
Acids	Ink Jets				
Bases	Beverages				
Solvents	Pharmaceuticals				
Fine Chemicals	Biologics				
Plating Solutions	Dyes				
Process Water	Lacquers				



Materials of Construction

Media: Non-Woven Polypropylene Meda Supports: Polypropylene Cage, Core, End Caps: Polypropylene Fitting Connections: MNPT, FNPT, Compression, Hose Barb, Sanitary Flange

<u>Dimensions</u> (Nominal)

Length: 1.5 in (68 mm) Length: 2.5 in (98 mm) Length: 5.0 in (153 mm) Length: 7.5 in (251 mm)

Length: 10 in (281mm) Diameter: 2.88 in (73 mm)

Effective Filtration Area

1.5 in - 0.65 ft² (600 cm²) 2.5 in - 1.3 ft² (1200 cm²) 5.0 in - 2.7 ft² (2400 cm²) 7.5 in - 4.3 ft² (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 (72psi) at 68°F/20°C

Maximum Reverse Differential Pressure:

2.1 bar (30psi) at 68°F/20°C

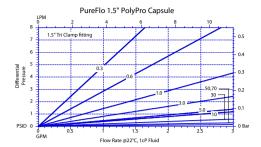
Maximum Operating Temperature:

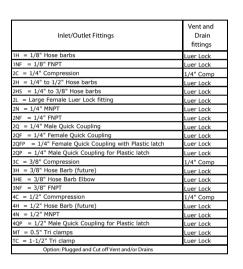
176°F/80°C

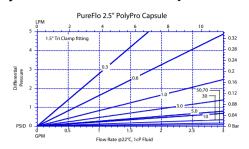
Features	Benefits
Absolute Rated Pleated Polypropylene Media (Graded Porosity Design)	Media matrix removes particles in sequence by size- larger particles by the more open outer layers and smaller particles by the tighter inner layers High flow rates and low pressure drops Superior filter lifetime and process throughputs Consistent and reproducible particulate removal
100% Polypropylene Disposable Capsule	Excellent thermal and chemical compatibility No media migration 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 Capsules are rinsed with highpurity water

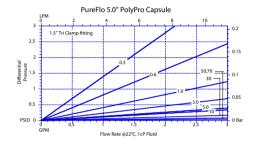
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Autoclavable & Sanitizable

Capsules can be autoclaved 25 times at 25%/125°C for 30 minutes or chemically sanitized in situ using common sanitizing agents or hot water at 194°F/90°C for a limited time (dependent on time and temperature). Capsules must not be in situ steamsterilized.

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.

PureFlo Polypropylene Filter Cartridge Ordering Guide

PureFlo Capsule Filters	Vent & Drain Fitting	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Optio	ns
SK	L = Female Luer Lock		003 = 0.3 006 = 0.6		1H = 1/8" Hose barbs 1NF = 1/8" FNPT	1H = 1/8" Hose barbs 1NF = 1/8" FNPT	-GP = Gamma stable polypropylene shell	O-Ring for Quick Coupling
70mm Diameter Capsule	P = M8 Threaded Plug - <u>Limited</u> <u>options</u> N = No vent or drain fittings	медіа	010 = 1.0 030 = 3.0 050 = 5.0 100 = 10.0 200 = 20.0	L = 5" E = 7.5"	1Q = 1/8" Male Quick Coupling for Metal latch 1QF = 1/8" Female Quick Coupling w/Metal latch 2C = 1/4" Compression 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs	1Q = 1/8" Male Quick Coupling for Metal latch	-NY = Nylon Construction -FB = Filling bell -FC = Filling bell w/Cap -ETO = Ethylene oxide sterilization	-OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton Blank = O-ring Silicon (Standard)
			300 = 30.0 500 = 50.0		2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT	2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT	-NI = No vent or drain inlet fitting	PreFilters
			700 = 70.0 10X = 100.0		2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch	2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch	-NO = NO vent or drain Outlet fitting	-G(pore Size) = Glass Fiber PreFilter
			15X = 150.0		2QF = 1/4" Female Quick Coupling w/Metal latch 2QFP = 1/4" Female Quick Coupling w/Plastic latch		-E = Polyethylene shell and HDPE media support for gamma sterilization	-P(pore Size) = PolyPro Media PreFilter
					2QP = 1/4" Male Quick Coupling for Plastic latch 3C = 3/8" Compression	3C = 3/8" Compression	-	-S(pore Size) = PES PreFilter
					3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT	3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT		
					4C = 1/2" Compression 4H = 1/2" Hose Barb	4C = 1/2" Compression 4H = 1/2" Hose Barb		
					4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch	4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch		
					MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp	MT = 1/2" Tri clamps TC = 1-1/2" Tri clamp		ļ
	Example - SK Series Capsule, Luer Lock V/D, 2.5" Internal filter,10 micron PolyPropylene Media Capsule, Standard Grade, with 1.5" Tri-Clamp fittings would be SKLP100STCTC							







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