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

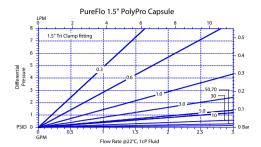
Maximum Operating Temperature:

176°F/80°C

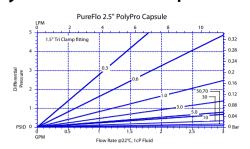
| Features | Benefits |
|--|--|
| Absolute Rated Pleated Polypropylene Media (Graded Porosity Design) | Media matrix removes particles in sequence by size- larger particles by the more open outer layers and smaller particles by the tighter inner layers High flow rates and low pressure drops Superior 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 |

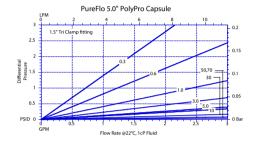
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| Inlet/Outlet Fittings | Vent and Drain fittings | | |
|--|-------------------------------|--|--|
| 1H = 1/8" Hose barbs | Luer Lock | | |
| 1NF = 1/8" FNPT | Luer Lock | | |
| 2C = 1/4" Compression | 1/4" Comp | | |
| 2H = 1/4" to 1/2" Hose barbs | 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 | | | |





<u>Autoclavable & Sanitizable</u>

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 | 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow | | |
| | | | | | 3NF = 3/8" FNPT 4C = 1/2" Compression 4H = 1/2" Hose Barb | 3NF = 3/8" FNPT 4C = 1/2" Compression 4H = 1/2" Hose Barb | | |
| | | | | | 4N = 1/2" MNPT | 4N = 1/2" MNPT | | |
| | | | | | 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps | 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 1/2" Tri clamps | | |
| | TC = 1-1/2" Tri clamp 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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