PureFlo® Nylon Membrane Filter Capsules

PureFlo® Nylon filter capsules are highly retentive, naturally hydrophilic nylon membrane filters that have been specially designed for liquid applications. The nylon membrane in an all-polypropylene construction provides excellent chemical compatibility and superior flow per surface area as compared to other membrane capsules. No adhesives, binders, or surfactants are used in the manufacturing process. All capsules are rinsed with high-purity water to reduce extractables and downtime.

The naturally hydrophilic nylon membrane does not require pre-wetting with IPA and flushing with DI water, thereby eliminating a potential source of contamination and hazardous waste.

All filter capsules are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo nylon filter capsules are well-suited for critical applications where superior flow and particle removal efficiency at 0.05, 0.1, 0.2, 0.45, 0.65, and 1.0 micron is required.

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<th>Applications</th>
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<tbody>
<tr>
<td>Solvents</td>
<td>Parts Cleaning</td>
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<tr>
<td>Fine Chemicals</td>
<td>Cosmetics</td>
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<tr>
<td>Ink Jets</td>
<td>Pharmaceuticals</td>
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<tr>
<td>Process Water</td>
<td>Biologics</td>
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<td>Beverages</td>
<td>Dyes</td>
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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.

Materials of Construction
Membrane: Naturally Hydrophilic Nylon
Membrane Supports: Polypropylene
Cage, Core, End Caps: Polypropylene
Fitting Connections: MNPT, FNPT, Compression, Sanitary Flange, Hose Barb, Coupling

Dimensions (TC fittings)
Length: 1.5 in (128 mm)
Length: 2.5 in (155 mm)
Length: 5.0 in (210 mm)
Length: 10 in (340mm)
Diameter: 2.75 in (70 mm)

Available Micron Ratings
0.05, 0.1, 0.2, 0.45, 0.65, and 1.0 microns

Effective Filtration Area
1.5 in - 0.77 ft² (720 cm²)
2.5 in - 1.5 ft² (1380 cm²)
5.0 in - 2.8 ft² (2600 cm²)
7.5 in - 4.0 ft² (3900 cm²)
10 in - 5.6 ft² (5200 cm²)

Operating Conditions
Maximum Forward Differential Pressure: 4.0 bar (58 psid) at 20°C
Maximum Reverse Differential Pressure: 2.0 bar (29 psid) at 20°C
Maximum Operating Temperature: 60°C

Features

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Naturally Hydrophilic Nylon Membrane (Absolute Rated)</td>
<td>IPA pre-wetting not required – thereby eliminating a potential source of contamination and disposal waste</td>
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<td>Reduces downtime and improves throughput</td>
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<td>Economic alternative to PTFE and PVDF</td>
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<td>Small Disposable Capsule</td>
<td>Rapid installation reduces downtime</td>
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<td></td>
<td>Low hold-up volume reduces chemical waste</td>
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<td>Reduced handling of hazardous chemicals</td>
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<td>Ease of Scale-Up</td>
<td>Consistent filtration from laboratory testing to full production</td>
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<tr>
<td>Low Filter Extractables</td>
<td>No adhesives, binders, or surfactants used</td>
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<td>Capsules are rinsed with high-purity water</td>
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</table>
Dr.-Ing. Erwin Schmid, Head of Microbiology, University of Würzburg

PSID

Differential Pressure

Flow Rate @22°C, 1cP Fluid

GPM

LPM

PharmBiologic Solutions, LLC

1/4" Compression fitting

PureFlo Vent and Drain

Nylon Membrane Filter Capsules

Pureflo Capsule Filter | Filter Media | Pore Size | Length | Inlet Fitting | Outlet Fitting | Options
--- | --- | --- | --- | --- | --- | ---
SKL - Capsule Filter with Standard Grade Luer Lock Vent and Drain | N = Nylon | 005 = 0.05 H = 1.5" | 1C = 1/8" compression (JACO) |  |  | Packaging
| 010 = 0.1 S = 2.5" | 1H = 1/8" Hose Barb |  | Blank = Single Bagged
| 020 = 0.2 L = 5" | 1N = 1/8" NPTM |  | Blank = Bulk Packaged
| 045 = 0.45 E = 7.5" | 1NF = 1/8" FNPT |  | Blank = Standard Grade
| 065 = 0.65 K = 10" | 1Q = 1/8" Male Quick Coupling |  | B = Biological Reduction Grade
| 080 = 0.8 | 1QE = 1/8" Male Quick Coupling Elbow |  | Blank = Polypropylene
| 120 = 1.2 | 1QF = 1/8" Female Quick Coupling |  | E = Ethylene Oxide Sterilization
|  | 1QV = 1/8" Quick Valved Coupling |  | O = O-Ring for Quick Connect
|  | 1QVF = 1/8" Female Quick Valved Coupling |  | P = PreFilter (Add before Filter Media)
|  | 2C = 1/4" Compression |  | Q = Coupling
|  | 2H = 1/4"-1/2" Hose Barb |  | Ring for Quick Connect
|  | 2H-FB = 1/4" Hose Barb with Filling Bell |  | Blank = Silicon
|  | 2N = 1/4" MNPT |  | Blank = EPDM
|  | 2NF = 1/4" FNPT |  | O = Nitrile
|  | 2PE = 1/4" Pust to Connect |  | O = Viton
|  | 2PF = 1/4" Pust to Connect Elbow |  | O = Viton
|  | 2V = 1/4" Walther Quick Connect |  | N = No Vent or Drain
|  | 3H = 3/8" Hose Barb |  | No Vent or Drain
|  | 3HE = 3/8" Hose Barb Elbow |  | NPT = No Pore Size
|  | 3H-FB = 3/8" Hose Barb with Filling Bell |  | P = Polyporpylene
|  | 3N = 3/8" MNPT |  | P = Polyporpylene
|  | 3NF = 3/8" FNPT |  | E = ESPE
|  | 3NF = 3/8" FNPT |  | E = ESPE
|  | 3NF = 3/8" FNPT |  | E = ESPE
|  | 4H = 1/2" Hose Barb |  | E = ESPE
|  | 4H = 1/2" Hose Barb |  | E = ESPE
|  | 4N = 1/2" MNPT |  | E = ESPE
|  | 4N = 1/2" MNPT |  | E = ESPE
|  | 4Q = 1/2" Male Quick Coupling |  | E = ESPE
|  | 5H = 5/8" Hose Barb |  | E = ESPE
|  | 5C = 5/16" Compression |  | E = ESPE
|  | 5T = 1/2" Tri-Clamp |  | E = ESPE
|  | 5C = 5/16" Compression |  | E = ESPE
|  | 6T = 1/2" Tri-Clamp |  | E = ESPE
|  | 6C = 5/16" Compression |  | E = ESPE
|  | 7C = 1/2" Tri-Clamp |  | E = ESPE
|  | 8C = 5/16" Compression |  | E = ESPE
|  | 9C = 1/2" Tri-Clamp |  | E = ESPE
|  | 9C = 1/2" Tri-Clamp |  | E = ESPE
|  | 10C = 1/2" Tri-Clamp |  | E = ESPE
|  | 11C = 1/2" Tri-Clamp |  | E = ESPE
|  | 12C = 1/2" Tri-Clamp |  | E = ESPE

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