

PureFlo® Nylon 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.

Applications	
Solvents	Parts Cleaning
Fine Chemicals	Cosmetics
Ink Jets	Pharmaceuticals
Process Water	Biologics
Beverages	Dyes

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)

Effective Filtration Area

1.5 in - 0.77 ft² (720 cm²)
 2.5 in - 1.5 ft² (1380 cm²)
 5.0 in - 2.8ft² (2600 cm²)
 10 in - 5.6 ft² (5200 cm²)

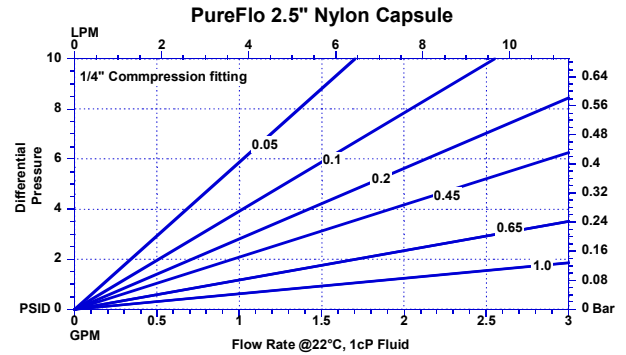
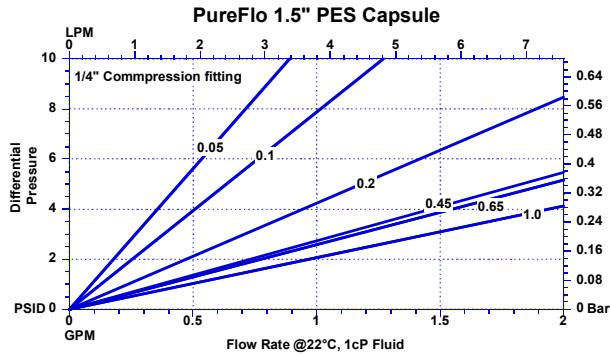
Operating Conditions

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	Benefits
<ul style="list-style-type: none"> Naturally Hydrophilic Nylon Membrane (Absolute Rated) 	<ul style="list-style-type: none"> IPA pre-wetting not required – thereby eliminating a potential source of contamination and disposal waste Reduces downtime and improves throughput Economic alternative to PTFE and PVDF Unlike hydrophobic filters there is no de-wetting in outgassing fluids
<ul style="list-style-type: none"> Small Disposable Capsule 	<ul style="list-style-type: none"> Rapid installation reduces downtime Low hold-up volume reduces chemical waste Reduced handling of hazardous chemicals
<ul style="list-style-type: none"> Ease of Scale-Up 	<ul style="list-style-type: none"> Consistent filtration from laboratory to full production testing
<ul style="list-style-type: none"> Low Filter Extractables 	<ul style="list-style-type: none"> No adhesives, binders, or surfactants used Capsules are rinsed with high-purity water

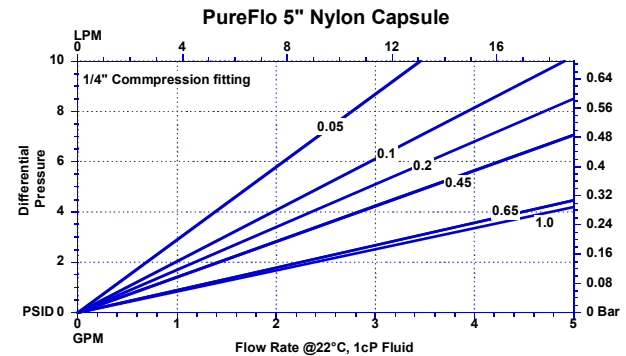
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Inlet/Outlet Fittings	Vent and Drain fittings
1H = 1/8" Hose barbs	Luer Lock
1NF = 1/8" FNPT	Luer Lock
2C = 1/4" Compression	1/4" Comp
2H = 1/4" to 1/2" Hose barbs	Luer Lock
2HS = 1/4" to 3/8" Hose barbs	Luer Lock
2L = Large Female Luer Lock fitting	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" Compression	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 Nylon Filter Cartridge Ordering Guide

PureFlo Capsule Filters	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options
SKL	N = Nylon	005 = 0.05 010 = 0.1 020 = 0.2 045 = 0.45 065 = 0.65 080 = 0.8 100 = 1.0	H = 1.5" S = 2.5" L = 5" K = 10"	1H = 1/8" Hose barbs 1NF = 1/8" FNPT 2C = 1/4" Compression 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2L = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling 2QF = 1/4" Female Quick Coupling 2QFP = 1/4" Female Quick Coupling with Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3C = 3/8" Compression 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4C = 1/2" Compression 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 0.5" Tri clamps TC = 1-1/2" Tri clamp	1H = 1/8" Hose barbs 1NF = 1/8" FNPT 2C = 1/4" Compression 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2L = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling 2QF = 1/4" Female Quick Coupling 2QFP = 1/4" Female Quick Coupling with Plastic latch 2QP = 1/4" Male Quick Coupling for Plastic latch 3C = 3/8" Compression 3H = 3/8" Hose Barb 3HE = 3/8" Hose Barb Elbow 3NF = 3/8" FNPT 4C = 1/2" Compression 4H = 1/2" Hose Barb 4N = 1/2" MNPT 4QP = 1/2" Male Quick Coupling for Plastic latch MT = 0.5" Tri clamps TC = 1-1/2" Tri clamp	Blank = Polypropylene -E = Polyethylene Shell and PET media support for Gamma Sterilization -GP = Gamma Stable Polypropylene Shell -N = No vent or Drain fittings -NI = No vent or Drain inlet fitting -NO = No vent or Drain Outlet fitting
<p>Example - 2.5", 0.2 micron Nylon Capsule, with 1.5" TriClamp fittings would be SKLN020STCTC</p> <p>Male Quick Couplings are molded, Female Quick Coupling with Plastic latch only will be threaded on, compatible with CPC (Colder), LinkTech and other compatible couplings.</p>						

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