

## PureFlo® Nylon Filter Capsules

(Nylon Membrane on PP Construction)

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 unit 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, Quick Coupling

### 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 (270 mm)  
 Length: 10 in (340mm)  
 Diameter: 2.75 in (70 mm)

### Effective Filtration Area

1.5 in - 0.74 ft<sup>2</sup> (690 cm<sup>2</sup>) 2.5 in - 1.4 ft<sup>2</sup> (1300 cm<sup>2</sup>)  
 5.0 in - 2.6ft<sup>2</sup> (2450 cm<sup>2</sup>) 7.5 in - 4.0ft<sup>2</sup> (3750 cm<sup>2</sup>)  
 10 in - 5.3 ft<sup>2</sup> (4900 cm<sup>2</sup>)

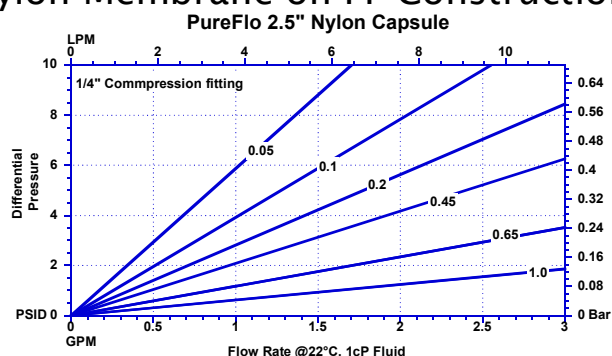
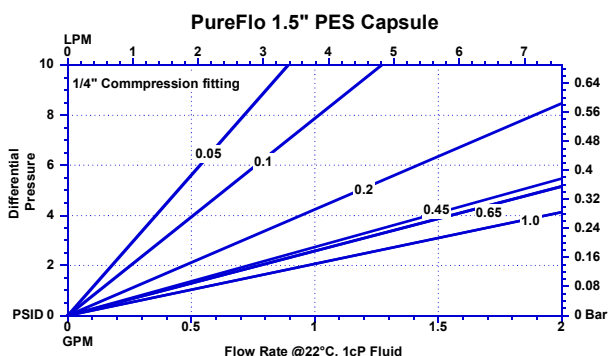
### Operating Conditions

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 (60psi) at 68°F/20°C  
 Maximum Reverse Differential Pressure:  
 2.1 bar (30psi) at 68°F/20°C  
 Maximum Operating Temperature: 140°F/60°C

Features	Benefits
■ Naturally Hydrophilic Nylon Membrane (Absolute Rated)	■ 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
■ Small Disposable Capsule	■ Rapid installation reduces downtime ■ Low hold-up volume reduces chemical waste ■ Reduced handling of hazardous chemicals
■ Ease of Scale-Up	■ Consistent filtration from laboratory to full production testing
■ Low Filter Extractables	■ No adhesives, binders, or surfactants used ■ Capsules are rinsed with high-purity water

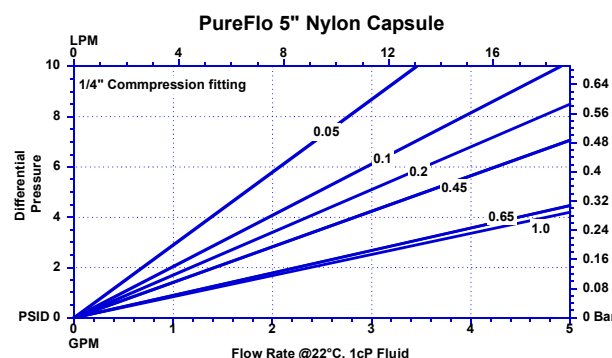
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Inlet/Outlet Fittings	Vent and Drain fittings
1H = 1/8" Hose barbs	Luer Lock
1NF = 1/8" FNPT	Luer Lock
2C = 1/4" Compression	1/4" Comp
2H = 1/4" to 1/2" Hose barbs	Luer Lock
2HS = 1/4" to 3/8" Hose barbs	Luer Lock
2L = Large Female Luer Lock fitting	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	Vent & Drain Fitting	Filter Media	Pore size (Micron)	Length	Input Fitting	Output Fitting	Options	
SK  70mm Diameter Capsule	L = Female Luer Lock  P = M8 Threaded Plug - <u>Limited options</u>  N = No vent or drain fittings	N = Nylon	005 = 0.05 010 = 0.10 020 = 0.20 045 = 0.45 065 = 0.65 080 = 0.80 120 = 1.20	H = 1.5" S = 2.5" L = 5" E = 7.5" K = 10"	1H = 1/8" Hose barbs 1NF = 1/8" FNPT 1Q = 1/8" Male Quick Coupling for Metal latch 1QF = 1/8" Female Quick Coupling w/Metal latch 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Female Quick Coupling w/Metal latch 2QFP = 1/4" Female Quick Coupling w/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" FNPT 4H = 1/2" 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	1H = 1/8" Hose barbs 1NF = 1/8" FNPT 1Q = 1/8" Male Quick Coupling for Metal latch 1QF = 1/8" Female Quick Coupling w/Metal latch 2H = 1/4" to 1/2" Hose barbs 2HS = 1/4" to 3/8" Hose barbs 2LF = Large Female Luer Lock fitting 2N = 1/4" MNPT 2NF = 1/4" FNPT 2Q = 1/4" Male Quick Coupling for Metal latch 2QF = 1/4" Female Quick Coupling w/Metal latch 2QFP = 1/4" Female Quick Coupling w/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" FNPT 4H = 1/2" 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	-GP = Gamma stable polypropylene shell  -NY = Nylon Construction -FB = Filling bell -FC = Filling bell with Cap -ETO = Ethylene oxide sterilization  -NI = No vent or drain inlet fitting -NO = NO vent or drain Outlet fitting -E = Polyethylene shell and HDPE media support for gamma sterilization	<b>O-Ring for Quick Coupling</b> -OE = O-ring EPDM -ON = O-ring Nitrile -OV = O-ring Viton Blank = O-ring Silicon (Standard)  <b>PreFilters</b> -G(pore Size) = Glass Fiber PreFilter -P(pore Size) = PolyPro Media PreFilter -S(pore Size) = PES PreFilter
	Example - Capsule, Luer Lock V/D, 2.5" Internal filter, 0.2 micron Nylon Capsule, Standard Grade, with 1.5" Tri-Clamp fittings would be SKLN020STCTC							

Quick Couplings are molded. Female Quick Coupling with Plastic latch will be threaded on, compatible with CFC (Copper), LickTech and others.

Quick Couplings are molded. Female Quick Coupling with Plastic latch will be threaded on, compatible with CPC (Colder), LinkTech and others.



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