



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 highpurity 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.



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 ft² (690 cm²) 2.5 in - 1.4 ft² (1300 cm²)
 5.0 in - 2.6ft² (2450 cm²) 7.5 in - 4.0ft² (3750 cm²)
 10 in - 5.3 ft² (4900 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 (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

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

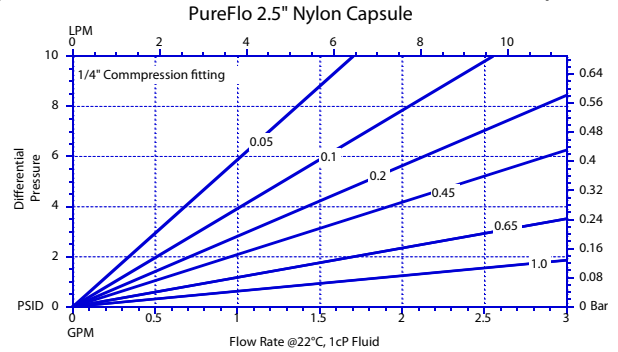
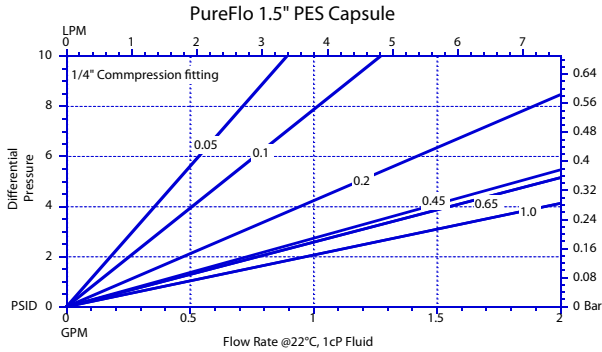
Regulatory Compliance

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

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 dewetting 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 highpurity water

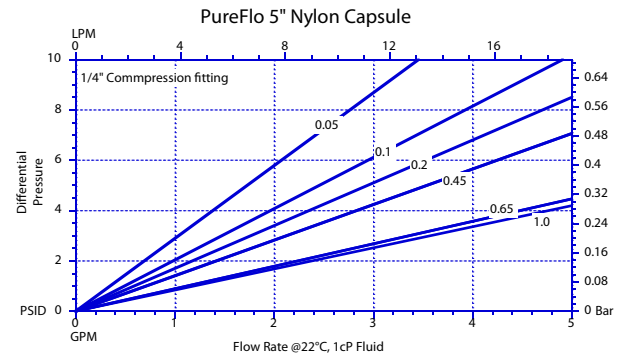


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Inlet/Outlet Fittings	Vent and Drain fittings
1H = 1/8" Hose barbs	Luer Lock
1NF = 1/8" FNPT	Luer Lock
2C = 1/4" Compression	1/4" Comp
2H = 1/4" to 1/2" Hose barbs	Luer Lock
2HS = 1/4" to 3/8" Hose barbs	Luer Lock
2L = Large Female Luer Lock fitting	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" 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	
70mm Diameter Capsule	L = Female Luer Lock P = MS Threaded Plug - Limited options N = No vent or drain fittings	N = Nylon	005 = 0.05	H = 1.5"	1H = 1/8" Hose barbs	1H = 1/8" Hose barbs	-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	
			010 = 0.10	S = 2.5"	1NF = 1/8" FNPT	1NF = 1/8" FNPT		-O-Ring for Quick Coupling
			020 = 0.20	L = 5"	1Q = 1/8" Male Quick Coupling for Metal latch	1Q = 1/8" Male Quick Coupling for Metal latch		-OE = O-ring EPDM
			045 = 0.45	E = 7.5"	1QF = 1/8" Female Quick Coupling w/Metal latch	1QF = 1/8" Female Quick Coupling w/Metal latch		-ON = O-ring Nitrile
			065 = 0.65	K = 10"	2H = 1/4" to 1/2" Hose barbs	2H = 1/4" to 1/2" Hose barbs		-OV = O-ring Viton
			080 = 0.80		2HS = 1/4" to 3/8" Hose barbs	2HS = 1/4" to 3/8" Hose barbs		Blank = O-ring Silicon (Standard)
			120 = 1.20		2L = Large Female Luer Lock fitting	2L = Large Female Luer Lock fitting		PreFilters
					2N = 1/4" MNPT	2N = 1/4" MNPT		-G(pore Size) = Glass Fiber PreFilter
					2NF = 1/4" FNPT	2NF = 1/4" FNPT		-P(pore Size) = PolyPro Media PreFilter
					2Q = 1/4" Male Quick Coupling for Metal latch	2Q = 1/4" Male Quick Coupling for Metal latch		-S(pore Size) = PES PreFilter
		2QF = 1/4" Female Quick Coupling w/Metal latch	2QF = 1/4" Female Quick Coupling w/Metal latch					
		2QFP = 1/4" Female Quick Coupling w/Plastic latch	2QFP = 1/4" Female Quick Coupling w/Plastic latch					
		2QP = 1/4" Male Quick Coupling for Plastic latch	2QP = 1/4" Male Quick Coupling for Plastic latch					
		3H = 3/8" Hose Barb	3H = 3/8" Hose Barb					
		3HE = 3/8" Hose Barb Elbow	3HE = 3/8" Hose Barb Elbow					
		3NF = 3/8" FNPT	3NF = 3/8" FNPT					
		4H = 1/2" Hose Barb	4H = 1/2" Hose Barb					
		4N = 1/2" MNPT	4N = 1/2" MNPT					
		4QP = 1/2" Male Quick Coupling for Plastic latch	4QP = 1/2" Male Quick Coupling for Plastic latch					
		MT = 1/2" Tri clamps	MT = 1/2" Tri clamps					
		TC = 1-1/2" Tri clamp	TC = 1-1/2" Tri clamp					

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 SKLN020STCT

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

