

PureFlo® Nylon Filter Cartridges

PureFlo® nylon filter cartridges are highly retentive, naturally hydrophilic nylon membrane filters that have been specially designed for critical applications. The nylon membrane in an all-polypropylene construction provides excellent chemical compatibility and superior flow per unit area as compared to other membrane cartridges. No adhesives, binders, or surfactants are used in the manufacturing process and all cartridges 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. In addition, unlike hydrophobic filters such as PTFE, the hydrophilic membrane of nylon reduces the potential for bubble formation by not dewetting in outgassing fluids. All filter cartridges are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo nylon filter cartridges are well-suited for critical applications where superior flow and particle removal efficiency at 0.1, 0.2, 0.45, 0.65, 0.85 and 1.2 micron is required.

Applications

Solvents	Ink Jets
Fine Chemicals	Parts Cleaning
Plating Solutions	Pharmaceuticals
Process Water	Biologics
Beverages	Dyes



Materials of Construction

Membrane: Naturally Hydrophilic Nylon
 Membrane Supports: Polypropylene
 Cage, Core, End Caps: Polypropylene
 O-Rings: Silicone, EPDM, Viton, Buna N, TES, TEV

Dimensions (nominal)

Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (50 cm), 30 in. (76 cm), 40 in. (102 cm)
 Diameter: 2.75 in. (7 cm)

Effective Filtration Area

0.65 m² (7.0 ft²) per 10" cartridge element

Operating Conditions

Maximum Forward Differential Pressure:
 5 bar (87 psid) at 20 °C
 2 bar (29 psid) at 80 °C
 Maximum Reverse Differential Pressure:
 3.0 bar (44 psid) at 20 °C
 1 bar (14.5 psid) at 80 °C
 Maximum Operating Temperature: 80°C

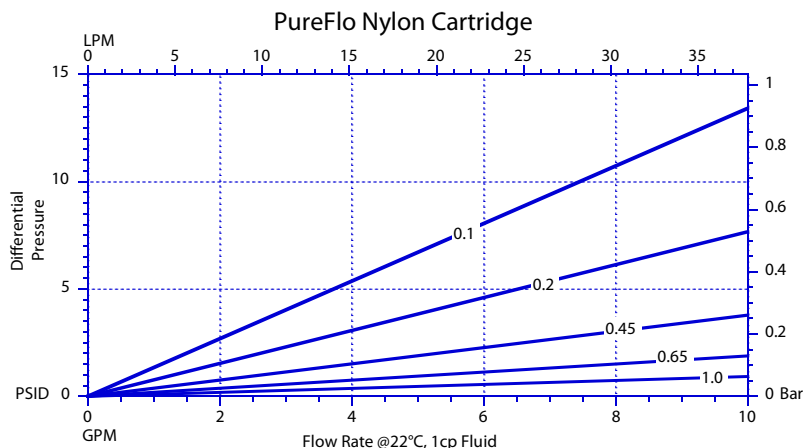
Features

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 filters No dewetting in outgassing fluids unlike hydrophobic filters such as polypropylene
Built To Exacting Specifications	Provides a consistent level of filtration
Low Filter Extractables	No adhesives, binders, or surfactants are used during manufacturing resulting in superior downstream cleanliness Cartridges are rinsed with high purity water



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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 Plastic.

Sterilization & Autoclaving

The filters can be sterilized by autoclaving for up to 25 cycles at 257°F/125°C. The filters can also be sterilized by steam-in-place procedure up to 3 cycles at 275°F/135°C for 30 minutes at less than 0.3 bar differential pressure. The filters can also be sanitized by hot water or common chemicals that are compatible with filter components.

PureFlo Nylon Filter Cartridge Ordering Guide

PureFlo Nylon Filters	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Inserts
Cartridge MCN= Nylon	10- 0.10 micron	0 = 222 O-Ring Flat	1 - 10"	E = EPDM	1= 1pc/ pack 5 = 5pc/ pack	Blank = Standard - 5 = SS Insert
	20- 0.20 micron	5 = 222 O-Ring Spear	2 - 20"	N = Buna N		
	50- 0.45 micron	6 = 226 O-Ring Flat	3 - 30"	S = Silicone		
	65- 0.65 micron	7 = 226 O-Ring Spear	4 - 40"	V = Viton		
	85- 0.85 micron	F = DOE Flat Gasket	5 = 5"	T = TEV*		
	1X - 1.2 micron	S = SOE Flat Gasket	9 = 9.75"	U = TES*		
		Z = SOE Internal 213 O-ring Flat **				
Example- PureFlo Nylon filter, 10", 0.2 micron cartridge, with 2-222 Silicone o-ring, Flat end cap, and no insert					MCN200154	
* - not available in Code Z ** - only available in 5", 10" and 20"						

