

PureFlo® Nylon Z Cartridges

PureFlo® Nylon Z filter cartridges are highly-retentive, naturally hydrophilic nylon membrane filters that have been specially designed for improved wet-ability. The nylon membrane in a 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 out-gassing 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.



Materials of Construction

Membrane: Naturally Hydrophilic Nylon 6,6

Membrane Supports: Polyester (PET)

Cage, Core: Polypropylene

End Caps: Nylon

O-Rings: Silicone, EPDM, Viton, Buna N, TES, TEV

Dimensions (nominal)

Lengths: 5 in. (13 cm), 10 in. (25 cm), 20 in. (51 cm), 30 in. (76 cm), 40 in. (102 cm)

Diameter: 2.75 in. (70 mm)

Effective Filtration Area

0.65 m² (7.0 ft²) per 10" cartridge element

Operating Conditions

Maximum Forward Differential Pressure:

5 bar (72.5 psid) at 22 °C

2 bar (29 psid) at 80 °C

Maximum Reverse Differential Pressure:

3.0 bar (43.5 psid) at 22 °C

1 bar (14.5 psid) at 80 °C

Maximum Operating Temperature: 80 °C

Applications

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

Features

- Naturally Hydrophilic Nylon Membrane (Absolute Rated)

- Built To Exacting Specifications

- Low Levels of Filter Extractables

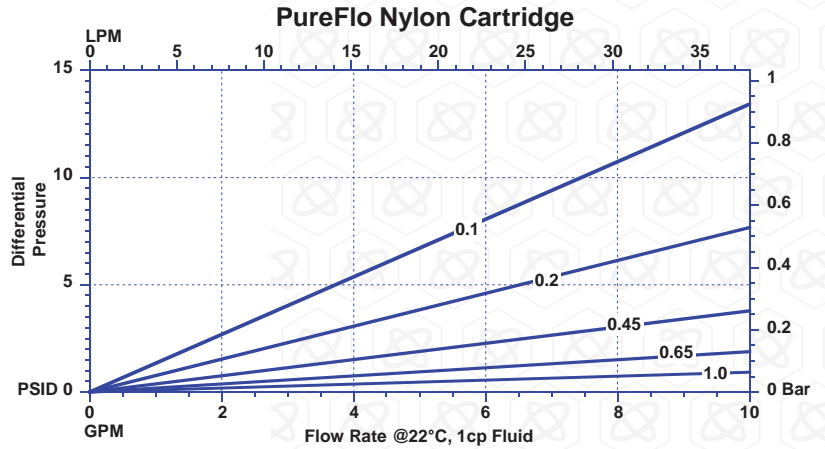
Benefits

- IPA pre-wetting not required – thereby eliminating a potential source of contamination and disposal waste
- Improved wet-ability for quicker start ups and post integrity testing
- Economic alternative to PTFE and PVDF filters
- No dewetting in outgassing fluids unlike hydrophobic filters such as polypropylene

- Provides a consistent level of filtration

- 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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Specifications (cont.)

Sterilization & Autoclaving:

The filters can be sterilized by autoclaving for up to 5 cycles at 125°C (257°F) for 30 minutes. The filters can also be sterilized by steam-in-place procedure up to 3 cycles at 135°C (275°F) for 30 minutes at less than 0.3 bar (4.35 psi) differential pressure. The filters can also be sanitized by hot water or common chemicals.

Regulatory Compliance:

Manufactured from materials that conform to the requirements of 21 CFR Part 177 of the U.S. Code of Federal Regulations and USP Class VI Biological Test for Plastic.

PureFlo Nylon Z Cartridge Ordering Guide

PureFlo Nylon Z Filters	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Options
Cartridge	05 - 0.05 micron	0 = 222 O-Ring Flat	1 - 10"	E = EPDM	1= 1pc/ pack	- 5 = SS Insert
MZN = Nylon	10 - 0.10 micron	3 = 222 O-Ring w/labs Spear	2 - 20"	N = Buna N		-RI = RFID Chip
	20 - 0.20 micron	5 = 222 O-Ring Spear	3 - 30"	P = Peroxide Cured EPDM		
Nylon Membrane	50 - 0.45 micron	6 = 226 O-Ring Flat	4 - 40"	Q = Platinum Cured Silicon		
PET support	65 - 0.65 micron	7 = 226 O-Ring Spear	5 = 5"	S = Silicone		
PP/Nylon construction	80 - 0.80 micron	8 = 223 O-Ring Flat	9 = 9.75"	T = TEV or FEP Gasket		
	1X - 1.2 micron	F = DOE Flat Gasket		U = TES*		
		S = SOE Flat Gasket		V = Fluoroelastomer		
		Z = SOE Internal O-ring Flat **				

Example - PureFlo Nylon Z filter, 10", 0.2 micron cartridge, with 2-222 Silicone o-ring, Flat end cap, and no insert would be MZN2001S1

* - not available in Code Z

** - only available in 5", 9.75", 10" and 20", retrofit for DOE housings

Your Local Distributor:

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