

PureFlo® All-Nylon Cartridges

PureFlo® All-Nylon Cartridges are highly retentive, naturally hydrophilic membrane filters that have been specially designed for high temperature applications. The nylon membrane in an all-nylon 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 or flushing with DI water, thereby eliminating a potential source of contamination and hazardous waste. In addition, the hydrophilic membrane reduces the potential for bubble formation by not de-wetting in outgassing fluids unlike hydrophobic filters such as polypropylene. All filter cartridges are 100% integrity tested to ensure filter performance each and every time out of the package. PureFlo® All-Nylon Cartridges are well-suited for critical applications where superior flow and particle removal efficiency at 0.1, 0.2, 0.45, 0.65, and 1.0 micron is required.

Applications

Solvents	Ink Jets
Fine Chemicals	Industrial
Plating Solutions	Parts Cleaning
Process Water	Lacquers
Industrial	Dyes



Materials of Construction

Membrane: Nylon 6,6
 Membrane Supports: Nylon
 Cage, Core: Nylon
 End Caps: Nylon
 O-Rings: Silicone, EPDM, Fluoroelastomer, Buna N, TES, and 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

0.6 m² (6.5 ft²) per 10" cartridge element

Operating Conditions

Maximum Forward Differential Pressure:
 6.0 bar (87 psid) at 22 °C
 3.0 bar (43.5 psid) at 80 °C
 Maximum Reverse Differential Pressure:
 3.0 bar (43.5 psid) at 22 °C
 1.0 bar (14.5 psid) at 80 °C
 Maximum Operating Temperature: 95 °C

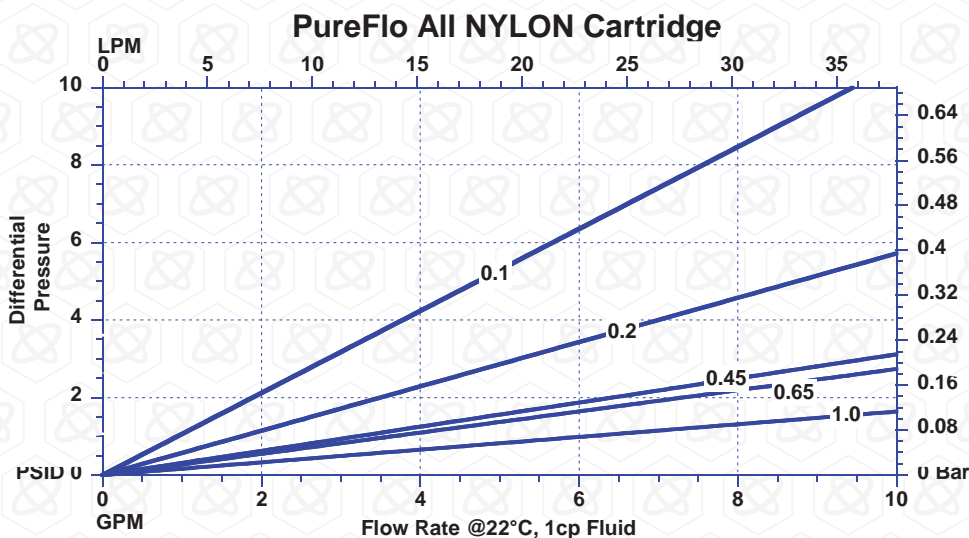
Features

- All Nylon Construction (Absolute Rated)
- Wide Chemical & Thermal Compatibility
- Low Filter Extractables

Benefits

- Higher temperature range
- Maximum compatibility range
- Superior filter lifetime and process throughputs
- Provides excellent compatibility with a wide-range chemicals such as acids, bases, and solvents
- No media migration into the process fluid
- No adhesives, binders, or surfactants are used during the manufacturing process resulting in superior downstream cleanliness
- All cartridges are rinsed with high purity water to reduce downtime

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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 that are compatible with filter components.

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® All-Nylon Cartridge Ordering Guide

PureFlo Nylon Filters	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Inserts
MSN = all Nylon Nylon with All Nylon Construction	05 - 0.05 micron	0 = 222 O-Ring Flat	1 - 10"	E = EPDM	1= 1pc/ pack	Blank = Standard -5 = SS Insert
	10 - 0.10 micron	3 = 222 O-Ring w/tabs Spear	2 - 20"	N = Buna N		
	20 - 0.20 micron	5 = 222 O-Ring Spear	3 - 30"	P = Peroxide Cured EPDM		
	50 - 0.45 micron	6 = 226 O-Ring Flat	4 - 40"	Q = Platinum Cured Silicon		
	65 - 0.65 micron	7 = 226 O-Ring Spear	5 = 5"	S = Silicone		
	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 - All Nylon Cartridge, 10", 0.2 micron cartridge, with 2-226 Silicone o-ring, Spear, and no insert would be MSN2071S1

* - not available in Code Z

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

Your Local Distributor:

ZenPure

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