

PureFlo® All-Nylon Charged Cartridges

The PureFlo® All-Nylon Charged Cartridges are designed to remove particles smaller than their rated pore size with the power of electrical attraction (adsorption/adhesion). Many particles in water and other liquids have a negative charge that can be captured by attraction to a positively charged filter. This property, combined with particle size exclusion (sieving) process and an impaction/interception particle capture mechanism, make this charged nylon filter extremely efficient.

PureFlo® All-Nylon Charged Cartridges are highly retentive, naturally hydrophilic membrane filters that have been specially designed for high temperature applications. The charged 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 and flushing with DI water, thereby eliminating a potential source of contamination and hazardous waste. In addition, the hydrophilic membrane, unlike hydrophobic filters such as polypropylene, 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 All-Nylon Charged Cartridges 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	Ink Jets
Fine Chemicals	Industrial
Plating Solutions	Parts Cleaning
Process Water	Lacquers
Industrial	Dyes

Features

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

Benefits

- Higher temperature range
- Maximum compatibility range
- Superior filter lifetime and process throughputs
- Provides excellent compatibility with a wide-range of 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
- Reduces endotoxin levels in fluid



Materials of Construction

- Membrane: Charged 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)

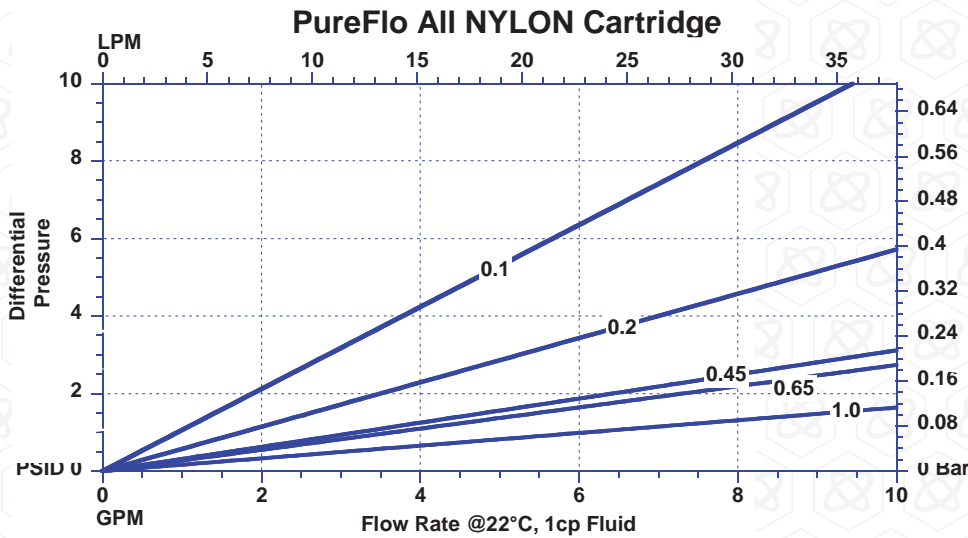
Effective Filtration Area

- 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

PureFlo[®] All-Nylon Charged Cartridges



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 Charged Cartridge Ordering Guide

PureFlo All Nylon Filters	Removal Rating	End Modifications	Length	O-Ring / Gasket Materials	Package Qty	Inserts
EEN = Charged Nylon (6.5Ft2) per 10"	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		
MEN = Charged Nylon (9.0 Ft2) per 10"	50 - 0.45 micron	6 = 226 O-Ring Flat	4 - 40"	O = 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 Charged filter with 9ft2, 10", 0.2 micron cartridge, with 2-226 Silicone o-ring, Spear, and no insert would be MEN2071S1						
* - 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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