

# High Purity – Nylon 66 Membrane

Nylon Membrane for Liquid Applications

PLEATED  
CARTRIDGES

MNY pleated cartridges are highly retentive, naturally hydrophilic, Nylon membrane filters that are specially designed for critical filtration requirements of aqueous fluids. The Nylon 6,6 membrane in an all-polypropylene construction provides excellent wet-out characteristics and superior flow performance per surface area as compared to other membrane cartridges. No additives, resins, surfactants or binders are used in the manufacturing process, which dramatically reduces rinse up time, extractables and downtime. MNY cartridges are perfectly suited for critical applications where superior flow and particle removal efficiency between 0.1 and 1.2 micron is required. MNY+ charged membranes provides enhanced retention of smaller negatively charged particles such as endotoxins by electro-kinetic mechanisms.



## FLOW RATE

The following table represents typical water flow at one psi (69 mbar) pressure differential across a single 10 inch cartridge element. The test fluid is water at ambient temperature. Extrapolation for housing with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

PORE SIZE	GPM
0.1 M	1.0
0.2 M	1.5
0.45 M	4.0
0.65 M	6.0

## CONSTRUCTION MATERIALS

Filtration Media ..... Nylon  
 Support Media ..... Polypropylene  
 End Caps ..... Polypropylene  
 Center Core ..... Polypropylene  
 Outer Support Cage ..... Polypropylene  
 O-rings/Gaskets ..... Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton

## SANITIZATION/STERILIZATION

**Filtered Hot Water** ..... 90° C  
**Autoclave** ..... 127° C, 30 min, multiple cycles  
**In-line Stream** ..... 135° C, 30 min, multiple cycles  
**Chemical Sanitization** – Industry standard concentrations of hydrogen peroxide, paracetic acid, sodium hypochlorite and other selected chemicals.

## DIMENSIONS

**Length:**  
 10 to 40 inches (25.4 to 101.6 cm) nominal  
**Outside Diameter:**  
 2.75 inches (7.0 cm) nominal

## MAXIMUM DIFFERENTIAL PRESSURES

**Forward** ..... 50 psi (3.4 bar) at 20° C  
**Reverse** ..... 40 psi (2.7 bar) at 20° C

## ORDERING INFORMATION

MNY	(Pore Size)	A	(Length)	C	(End Cap Code)	O-Rings/Gaskets	Options	Grade
MNY+	0.03		10 (25.4 cm)		B = DOE W/gasket – and caps	B = Buna	I = 316SS Inset	G = General
	0.05		20 (50.8 cm)		C = 222 W/Spear	E = EPDM	O = DI Flush	E = Electronics
	0.1		30 (76.2 cm)		D = 222 W/Closed Flat Cap	S = Silicone		F = Food & Beverage
	0.2		40 (101.6 cm)		E = 222 W/Spring	V = Viton		
	0.45				F = 226 W/Closed Flat Cap	T = Teflon		
	0.65				G = 226 W/Spear	Encapsulated Viton		
	0.80				H = 226 W/Spring			
	1.20				J = Polypropylene Extender			
					L = Spring			
					N = SOE Recessed Cap,			