

Memtrex* NY Capsules

FACT SHEET

With Hydrophilic Nylon66 Membrane



Figure 1: Memtrex NY Capsule Filters

Description and Use

Memtrex NY capsule filters (CMNY) have a unique polyester, and polypropylene construction for enhanced reliability, and usefulness. Polyester housings, and support layers ensure and maintain capsule integrity, while a nylon prefilter membrane layer over a final membrane layer significantly enhances filter life. CMNY filters are suitable for a broad range of applications, meeting worldwide demand for functionality in chemical, beverage, and water processing. (Figure 1)

Typical Applications

Memtrex NY capsule filters have been designed for reliable filtration in a wide range of applications, including:

- Beverages
- Cosmetics
- Electronics
- Fine and Bulk Chemicals
- Pharmaceuticals

Features and Benefits

- Utilizes inherently hydrophilic, high-purity Nylon66 membrane
- Innovative serial layer membrane design
- Thermal weld techniques — no adhesives, resins or binders
- Low extractables
- 100% integrity tested and rinsed for uncompromised reliability and consistency

Available Absolute Micron Ratings

CMNY filters are available in absolute micron ratings of: 0.1, 0.2, 0.45, and 0.65 μm .

Materials of Construction

- Filtration Media: Two Layers of Hydrophilic Nylon66 (prefilter layer over final layer)
- Membrane Support Layers: Polyester Microfiber
- Structural Components: Polyester and Polypropylene

Table 1 details the dimensions and Table 2 shows the operational limits of the Memtrex NY capsule filters. Table 3 details the results of integrity testing at various micron ratings and test pressures.

Table 1: Dimensions

Diameter: 3.5" (9cm)		
Capsule Size	Effective Filtration	Area Length ¹
Small	0.8 ft ² (748 cm ²)	3.5 – 5.0" (9 – 13 cm)
Medium	3.0 ft ² (2806 cm ²)	7.6 – 9.1" (19 – 23 cm)
Large	5.9 ft ² (5500cm ²)	11.5 – 13.0" (29 – 33 cm)

¹Varies with connection style

Table 2: Operational Limits

Description	Operational Limits
Max. Operational Pressure	80 psi (5.5 bar) at 70°F (21°C) in liquid 55 psi (3.8 bar) at 70°F (21°C) in gas
Max. Differential Pressure	60 psi (4.1 bar) at 70°F (21°C)
Max. Operating Temperature	110°F (43°C) at ≤30 psid (2.1 bar) Operating Pressure

Table 3: Integrity Testing

Air diffusion through water saturated membrane is ≤1.8 cc/min per ft ² of Effective Filtration Area	
Micron Rating	Test Pressure
0.1 µm	40 psi (2.8 bar)
0.2 µm	30 psi (2.1 bar)
0.45 µm	20 psi (1.4 bar)
0.65 µm	10 psi (0.6 bar)

Additional Information

Memtrex NY Capsule filters may be sanitized with a variety of commonly used chemical agents; however, acidic solutions should be avoided. The capsules may be repeatedly autoclaved (257°F [125°C], 30 minutes) for up to 5 cycles.

Veolia certifies that the materials contained in its Memtrex NY Capsule filters meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR. For further information, contact Veolia. Memtrex NY filters meet the test criteria for USP class VI-121°C Plastics.

Figures 2, 3, and 4 show the test data results of flow performance for the small, medium, and large Memtrex NY capsule filters using a 10-inch length filter.

Veolia filter capsules are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Consult the ordering information in Table 4 below or contact your Veolia distributor for more information.

Table 4: Ordering Information

Type	Absolute Micron Rating	Capsule Size	Connections ³
CMNY	91 = 0.1 µm 92 = 0.2 µm 94 = 0.45 µm 96 = 0.65 µm	08 = small (0.8 ft ²) 30 = medium (3.0 ft ²) 59 = large (5.9 ft ²)	L = ¼" – ½" (6.3 – 12.7 mm) hose barb M = 3/8" (9.5 mm) hose barb R = ¼" (6.3 mm) NPT mole W = ½" (12.7 mm) NPT mole Y = 1.5" (38.1 mm) sanitary flange

³Choose an inlet and outlet connection

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Please contact us via:
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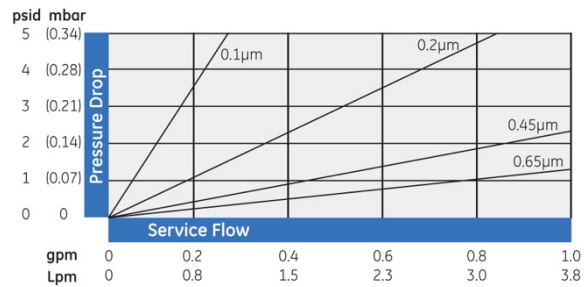


Figure 2: Memtrex NY small capsule flow rate performance in clean water.²

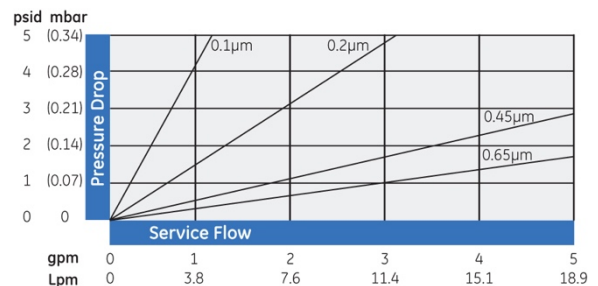


Figure 3: Memtrex NY medium capsule flow rate performance in clean water.²

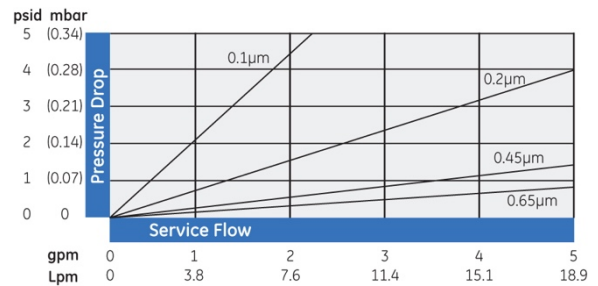


Figure 4: Memtrex NY large capsule flow rate performance in clean water.²

²Data based on 10 inch length filter

For More Information

Call USA Toll free 800-446-8004 or +1-757-855-9000 or contact your local Veolia representative at www.veoliawatertechnologies.com.

