

Memtrex* PC

Pleated Filters with Polycarbonate Track-etch Membrane



Figure 1: Memtrex PC Filters

Description and Use

Memtrex PC (MPC) filters' (Figure 1) unique polycarbonate track-etch membrane leads the market for precise filtration, broad chemical compatibility, and fast conductivity and TOC rinse-down in ultrapure water systems. MPC filters' precise micron cutoffs and very low pore sizes down to 0.05 micron provide you with high purity filtration for all of your critical electronic, chemical and highly technical processes.

The MPC filter is just one example of our strong commitment to fluid filtration. Whether you require an integrated solution or a single component for a specific application, look to GE Water & Process Technologies first. From one end of the filtration spectrum to the other, GE has a total commitment to fluid purity. GE is your complete source for filters, crossflow membranes, housings, and other filtration equipment.

Typical Applications

Memtrex PC filters are specifically designed for ultrapure filtration. Typical applications include:

- Pure Chemical Filtration
- Inks and Dyes
- Ultrapure Water Filtration
- Plating Solutions

General Properties

Memtrex PC filters are available the following absolute pore size micron rating: 0.05, 0.1, 0.2 and 0.45 μm . Tables 1, 2, 3 and 4 show further details on materials of construction, dimensions, operational limits and flow performance.

Table 1: Materials of Construction

Media	Polycarbonate Track-etch Membrane
Support Layers	Polypropylene Microfiber
Core and Cage	Polypropylene
Endcaps and Adapters	Polypropylene

Table 2: Dimensions

Nominal O.D.	Nominal I.D.	Effective Filtration Area
2.75" (70mm)	1.25" (31mm)	17 ft ² (1.6 m ²)

Table 3: Operational Limits

Maximum Forward Differential Pressure	60 psi (4.1 bar) @ 70°F (21°C)
Maximum Reverse Differential Pressure	30 psi (2.07 bar) @ 70°F (21°C)
Maximum Operating Temperature	180°F (82°C) at 10 psid (0.69 bar) in water

Additional Information

- The filters may be sanitized with compatible chemical agents.
- Memtrex PC filters meet the test criteria for USP class VI-121°C plastics.



Find a contact near you by
visiting gewater.com or
e-mailing custhelp@ge.com.

Global Headquarters
Trevose, PA
+1-215-355-3300

Americas
Watertown, MA
+1-617-926-2500

Europe/Middle East/Africa
Heverlee, Belgium
+32-16-40-20-00

Asia/Pacific
Shanghai, China
+86 (0) 411-8366-6489

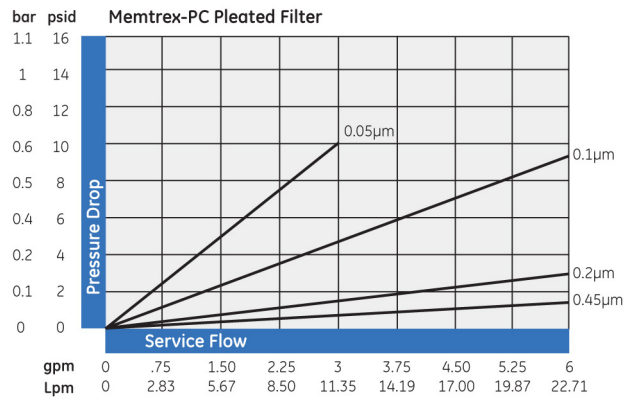
©2006, General Electric Company. All rights reserved.

*Trademark of General Electric Company; may be registered in one or more countries.

FS1081EN 0603

- Aqueous extracts from Memtrex PC filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.
- GE filter cartridges 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. Please contact your GE distributor for more information.
- Table 5 provides additional ordering information.

Table 4: Flow Performance in Clean Water¹



¹ Data based on 10" length filter

Table 5: Ordering Information

Type	Absolute Micron Rating	Nominal Cartridge Length	End #1 Adapter	End #2 Adapter	Elastomer Material
MPC	85 = 0.05 µm 91 = 0.1 µm 92 = 0.2 µm 94 = 0.45 µm	1 = 10 Inch (25 cm) 2 = 20 Inch (51 cm) 3 = 30 Inch (76 cm) 4 = 40 Inch (102 cm)	A = Open End Gasket B = 120 O-Ring C = 213 O-Ring E = 222 O-Ring F = 226 O-Ring J = 020 O-Ring Q = 222 O-Ring Stainless Steel Support Ring Z = 226 O-Ring Stainless Steel Support Ring	A = Open End Gasket B = 120 O-Ring C = 213 O-Ring G = Closed End Cap H = Fin Adapter	B = Buna-N E = EPDM S = Silicone T = Teflon ² Encapsulated (Only in 222 and 226) V = Viton ²

²Teflon and Viton are registered trademarks of DuPont.

