

# Memtrex\* HFE - Halar PTFE

## All Fluoropolymer Pleated Cartridge

### Features and Benefits

Memtrex HFE are made entirely from fluoropolymer materials including Halar (ECTFE) (Halar is a trademark of Ausimont.), and PTFE. Halar is an industrial-grade fluoropolymer with excellent solvent resistance. MHFE filters can withstand the harshest process conditions due to its construction using these highly resistant materials. Providing broad chemical compatibility, you can count on our filters to produce consistent, uniform process streams in your most demanding filtration applications. MHFE deliver high flow rates and high-purity results with absolute rated efficiencies (99.9% filtration efficiency at rated pore size based on ASTM F795 and F661 test methods) and retention characteristics that outperform other filters. The MHFE filter is just one example of our strong commitment to fluid treatment. Our complete portfolio includes filters for every stage of processing, and we offer custom solutions for your unique applications. GE Water & Process Technologies is your complete source for filters, crossflow membranes, housings, and other filtration equipment.

### Typical Application

MHFE all fluoropolymer filters offer outstanding performance in extremely harsh chemical environments. MHFE filters are manufactured and packaged in a cleanroom environment for assured cleanliness. Typical applications include:

- Chemicals
- Microelectronics
- Pharmaceuticals



### Materials of Construction

- Core and cage: Halar (ECTFE)
- Support layer: Halar (ECTFE)
- Membrane: ePTFE
- End caps: Halar (ECTFE)

### Micron Ratings and Dimensions

- Micron ratings 0.05, 0.1, 0.2, 0.45 micron
- Nominal O.D. 2.75"
- Nominal I.D. 1.25"



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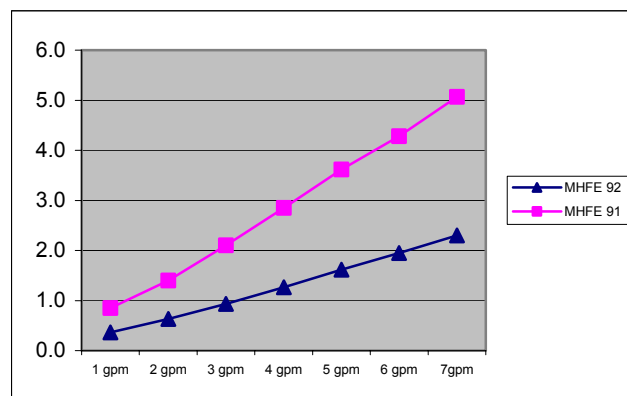
## Operational Limits

- Maximum forward differential pressure
  - 60 psi (4.14 bar) at 70 F (21 C)
- Maximum reverse differential pressure
  - 30 psi (2.07 bar) at 70 F (21 C)
- Maximum operating temperature
  - 205 F (96.1 C) at 25 psid (1.7 bar)

## Integrity Testing

- 0.1  $\mu\text{m}$   $\leq 5$  cc / min at 40 psig (2.76 bar)
- 0.2  $\mu\text{m}$   $\leq 5$  cc / min at 30 psig (2.07 bar)

## MHFE Flow Performance in Clean Water<sup>1</sup>



<sup>1</sup>Data based upon 10" length filter.

## Additional Information

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.

## Ordering Information

Type	Nominal Micron Rating ( $\mu\text{m}$ )	Cartridge Length Inches (cm)	End 1 Adapter	End 2 Adapter	Elastomer Material
MHFE	85 = 0.05	1 = 10"	A = Open End with Gasket	A = Open End with Gasket	T = Teflon Encapsulated Viton*
I.D. = 1.25 in. (2.4 cm)	91 = 0.1	2 = 20"	E = 222 O-Ring	G = Closed end cap	
O.D. = 2.75 in. (6.4 cm)	92 = 0.2	3 = 30"	F = 226 O-Ring	H = Fin	
	94 = 0.45	4 = 40"			

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