

All-Poly High Purity

Hydrophobic Membrane

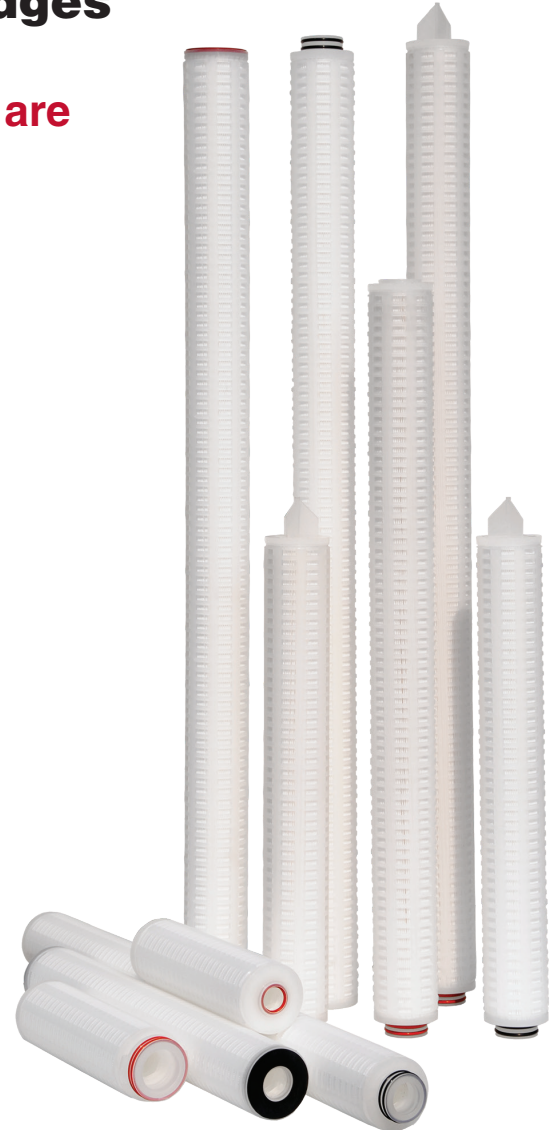
Pleated Teflon® Membrane Cartridges

Harmsco® High Purity Pleated Cartridges are manufactured for use in applications where absolute rated filtration is needed.

- Long service life
- High flow rates
- Low pressure drop
- High permeability

Features

- ▶ High efficiency for critical filtration applications
- ▶ Pleated design for extended surface area
- ▶ Polypropylene end cap, thermally welded to media, cage and core
- ▶ FDA Listed Materials for potable water/liquid foods
- ▶ USP Class VI - 121°C (250°F) for plastics
- ▶ Offered in multiple lengths and end cap configurations to fit in competitive filter housings



Pleated Teflon® Membrane Cartridges

Applications

- ▶ Sterile Air
- ▶ Venting
- ▶ Photographic Solutions
- ▶ Reagent and Electronic Grade Chemicals
- ▶ Prefiltration Prior To Membrane Filters
- ▶ DI and RO Feedwater Prefiltration
- ▶ Agressive Fluids
- ▶ Process Water
- ▶ Fine Chemicals
- ▶ Plating Chemicals
- ▶ Wastewater
- ▶ Pharmaceuticals and Biologicals



Specifications

Construction Materials

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

Dimensions

Length: 10 to 40 inches (25.4 to 101.6 cm) nominal
 Outside Diameter: 2.7 inches (7.0 cm) nominal

Toxicity

All components meet the specifications for biological safety per USP Class VI: 250°F (121°C) for plastics.

Max. Recommended Operating Conditions

Change Out.....ΔP 35 PSI; Temperature.....200°F (93°C)

FDA Listed Materials

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Sanitization/Sterilization

Filtered Hot Water 176°F (80°C) for 30 minutes

Steam Sterilization 250°F (121°C) for 30 minutes, multiple cycles.

Chemicals: cartridges are chemically compatible with most chemicals and sanitizing agents.

Note: stainless steel insert option needed for all cartridges being hot water sanitized or steam sterilized.

Cartridge Selection/Sizing Guide

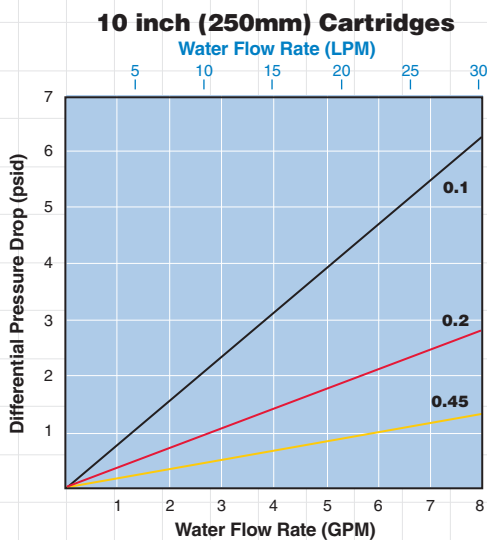
Packed 6 per case, with cartridges individually bagged and cartoned.

| Model | Length | Micron Size | End Cap Code | O-Rings/Gaskets | Adders |
|-------|----------------|-------------|-----------------------|-------------------------------|----------------------------|
| TF | 975 (9-3/4") | 0.1 | DOE (double open end) | E (EPDM)* | I (stainless steel insert) |
| | 195 (19-1/2") | 0.2 | 213 (internal o-ring) | B (Buna) | HP (heavy poly core) |
| | 20 (20") | 0.45 | 222 (flat cap) | S (Silicone) | |
| | 2925 (29-1/4") | | 222-F (fin) | V (Viton) | |
| | 30 (30") | | 222-S (spring) | T (Teflon Encapsulated Viton) | |
| | 40 (40") | | 226 (flat cap) | | |
| | | | 226-F (fin) | | |
| | | | 226-S (spring) | | |

Example: TF – 195 – 0.45 – 222-F – E

EPDM is standard for all o-rings and gaskets, unless otherwise noted.

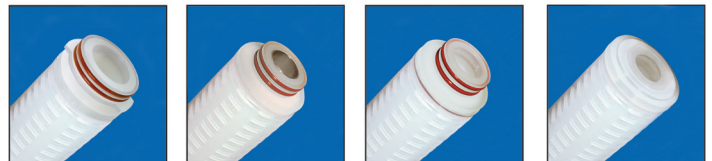
Flow Rate



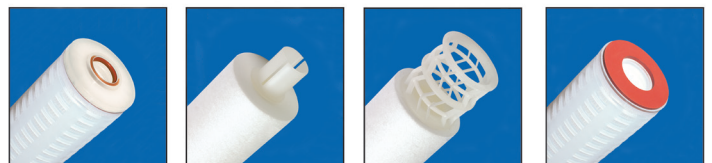
Cartridge End Cap Configurations



Fin Flat Cap 226 (w/SS insert)



226 222 (w/SS insert) 222 Flat Cap



213 (internal o-ring) PP Core Ext. Spring DOE (double open end)

Note: This publication is to be used as a guide. The data within has been obtained from many sources and is considered to be accurate. Harmsco does not assume liability for the accuracy and/or completeness of this data. Changes to the data can be made without notification. Temperature, Pressure, Flow Rates, Differential Pressures, Chemical Combinations and other unknown factors can affect performance in unknown ways. **Limited Warranty:** Harmsco warrants their products to be free of material and workmanship defects. Determination of suitability of Harmsco products for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. The end user/installer/buyer shall be liable for the product's performance and suitability regarding their specific intended applications. End users should perform their own tests to determine suitability for each application.



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