

All-Poly Absolute Rated Food & Beverage Grade

Absolute Rated

Hydrophilic Polyethersulfone Membrane Cartridges

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

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

Features

- ▶ 100% polypropylene; nothing to leach/contaminate
- ▶ High efficiency for critical filtration applications
- ▶ Pleated design for extended surface area
- ▶ Polypropylene end cap, thermally welded to media, cage and core
- ▶ USP Class VI - 121°C (250°F) for plastics
- ▶ 8.5 square feet of filtration media per 9-3/4" cartridge
- ▶ Offered in multiple lengths and end cap configurations to fit in competitive filter housings
- ▶ FDA Listed Materials: Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations



Pleated Hydrophilic Polyethersulfone Membrane Cartridges

Applications

- ▶ Wine
- ▶ Beer
- ▶ Juices
- ▶ R/O Pre-filtration
- ▶ Soft Drinks
- ▶ Bottled Water
- ▶ Distilled Water
- ▶ Chemicals



Specifications

Construction Materials

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

Toxicity

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

Dimensions

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

Media Surface Area

8.5 square feet per 9-3/4" length

Maximum Recommended Operating Conditions

Temperature 176°F (80°C)

Maximum Differential Pressures

Forward 50 psi (3.4 bar) at 68°F (20°C)
 Reverse 40 psi (2.7 bar) at 68°F (20°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 190°F (88°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 insert option needed for all cartridges being hot water sanitized or steam sterilized.

Cartridge Selection/Sizing Guide

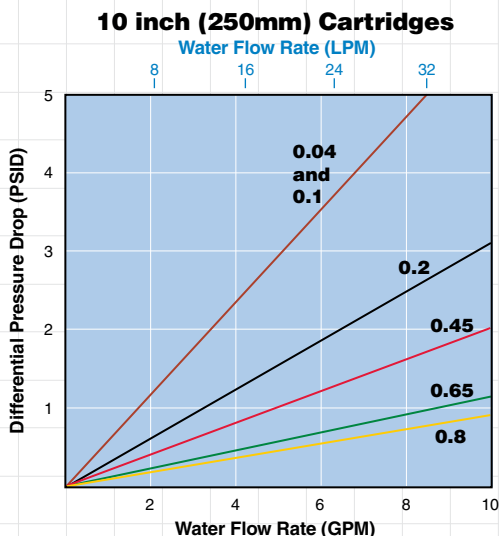
Packed 6 per case, with cartridges individually bagged and cartoned.

✓ Model	✓ Length	✓ Micron Size	✓ End Cap Code	✓ O-Rings/Gaskets	✓ Adders
PES FB	975 (9-3/4")	0.04	DOE (double open end)	E (EPDM)*	I (stainless steel insert)
	195 (19-1/2")	0.1	213 (internal o-ring)	B (Buna)	HP (heavy poly core)
	20 (20")	0.2	222 (flat cap)	S (Silicone)	
	2925 (29-1/4")	0.45	222-F (fin)	V (Viton)	
	30 (30")	0.65	226 (flat cap)	T (Teflon Encapsulated Viton)	
	40 (40")	0.8	226-F (fin)		

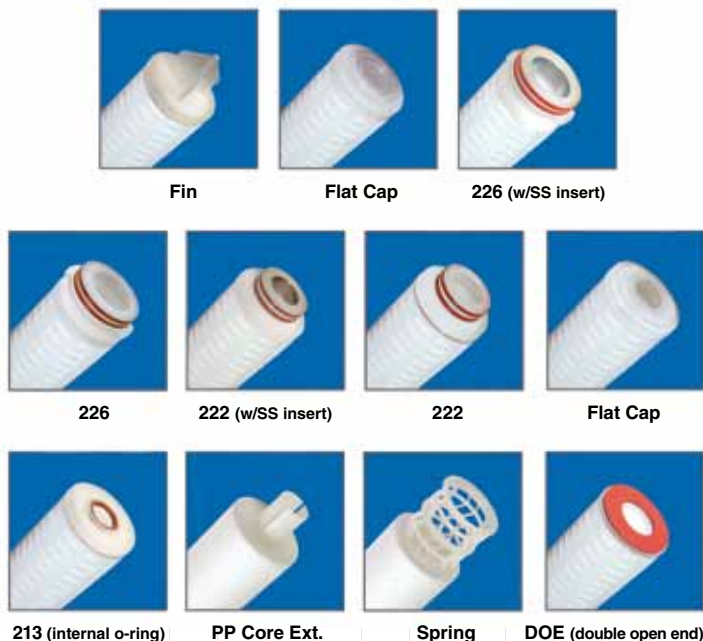
Example: PES FB – 195 – 0.2 – 222-F – E

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

Flow Rate



Cartridge End Cap Configurations



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.



HARMSCO® Filtration Products

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