

All-Poly Absolute Rated Water Service 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



Pleated Hydrophilic Polyethersulfone Membrane Cartridges

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
- ▶ 5.5 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

Applications

- ▶ Deionized Water Systems
- ▶ General-use Water Filtration
- ▶ Liquid Clarification
- ▶ Cosmetics
- ▶ Recirculating Fluids
- ▶ Chemical Filtration
- ▶ Pharmaceutical
- ▶ Final Filtration of Solvents, Acids, Bases



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**
 5.5 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**
 Filtered Hot Water 190°F (88°C) for 30 minutes at a maximum of 15 psid. Cartridges are chemically compatible with most ultra-pure chemicals, solvents and sanitizing agents.

Cartridge Selection/Sizing Guide

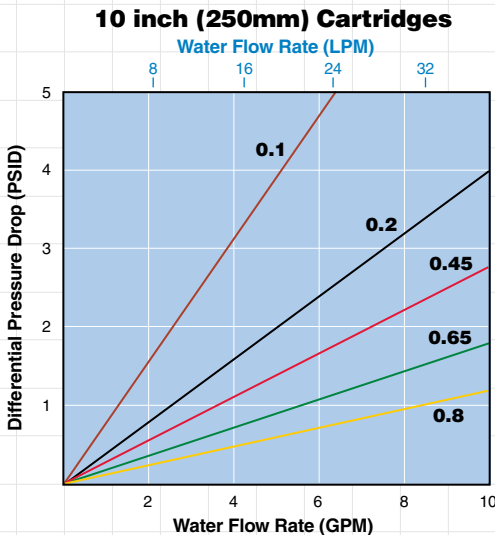
Packed 6 per case, with cartridges individually bagged and cartoned.

✓ Model	✓ Length	✓ Micron Size	✓ End Cap Code	✓ O-Rings/Gaskets	✓ Adders
PES	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")	0.65	222-F (fin)	V (Viton)	
	30 (30")	0.8	226 (flat cap)	T (Teflon Encapsulated Viton)	
	40 (40")		226-F (fin)		

Example: PES – 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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