

HARMSCO®

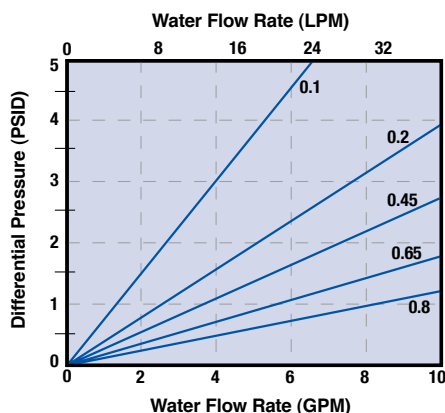
All-Poly Absolute Rated Water Service Grade - PES

Hydrophilic Polyethersulfone (PES) Membrane for Water Purification

Filter Data Sheet – PES Absolute Rated

Water Service Grade PES Cartridges are cost-effective alternatives to General and Electronic Grade Cartridges for a variety of aqueous based fluids. Water Service Cartridges are manufactured from an inherently hydrophilic PES membrane. The cartridge offers excellent flow characteristics, extended service life, and broad chemical compatibility.

Flow Rate



Typical Applications

- ✓ Deionized Water Systems
- ✓ General-use Water Filtration
- ✓ Liquid Clarification
- ✓ Recirculating Fluids
- ✓ Chemical Filtration
- ✓ Pharmaceutical



Hydrophilic Polyethersulfone Membrane Cartridges

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

Sanitization

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

Dimensions

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

Maximum Recommended Operating Conditions

Maximum Temperature 176°F (80°C)

Maximum Differential Pressures

Forward 50 psi (3.4 bar) at 20°C
Reverse 40 psi (2.7 bar) at 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.

Toxicity

All polypropylene components meet the specifications for biological safety per USP Class VI - 121°C for plastics.

PES Ordering Information*

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

| ✓ Length | ✓ Micron Size | ✓ End Cap Code | ✓ O-Rings/Gaskets | ✓ Adders |
|----------------|---------------|-----------------------|-------------------|----------------------------|
| 975 (9-3/4") | 0.1 | DOE | 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") | | 226 (flat cap) | | |
| 40 (40") | | 226-F (fin) | | |

*Example: PES – 195 – 0.2 – 222-F – E represents PES – 19-1/2" – 0.2 micron – double o-ring with fin.

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

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.