HARMSCO®

PS

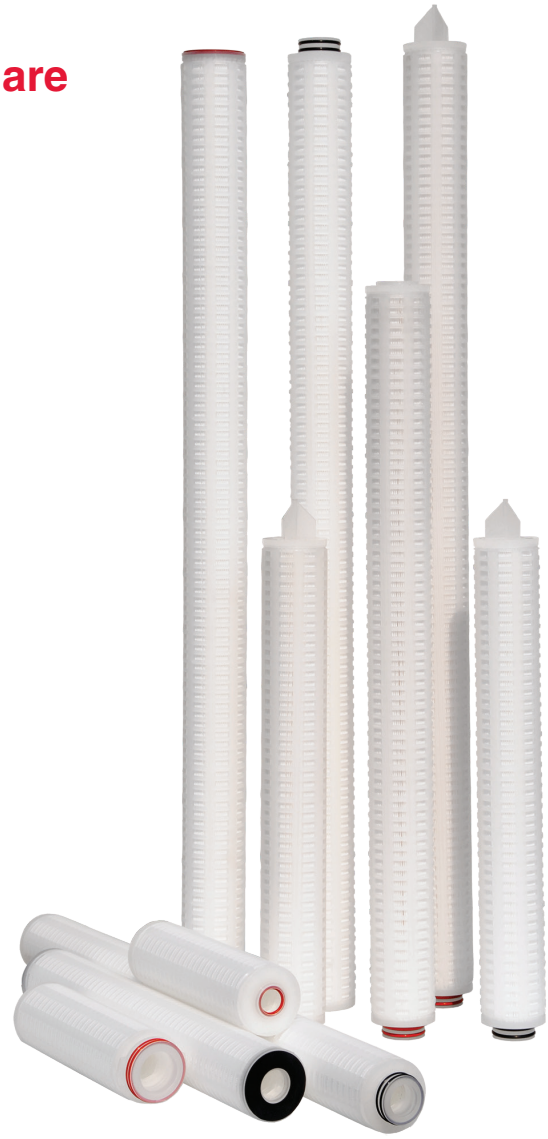
All-Poly Absolute Rated

Hydrophilic Polysulfone

Pleated Polysulfone 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



Pleated Hydrophilic Polysulfone Membrane Cartridges

Features

- Hydrophilic polysulfone membrane
- Absolute rated pore sizes from 0.05 to 0.80 microns
- Thermal bonded polypropylene structure
- Excellent flow vs. pressure drop
- Extremely fast cleaning times
- FDA Listed Materials for potable water/liquid foods
- USP Class VI - 121˚C (250˚F) Polysulfone (PS) Membrane for Plastics

Applications

- Food & Beverage
- Cosmetics
- Photographic Solutions
- Reagent and Electronic Grade Chemicals
- Bottled Water
- Prefiltration Prior To Membrane Filters
- DI and RO Feedwater Prefiltration
- Magnetic Media Chemicals
- Process Water
- Fine Chemicals
- Plating Chemicals
- Wastewater
- Pharmaceuticals and Biologicals
- Ophthalmics

Specifications

Construction Materials

Membrane.....Polysulfone (PS)
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] 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

Maximum Recommended Operating Conditions

Temperature.....176°F (80°C)

Maximum Differential Pressures

Forward.....50 psi (3.4 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.....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

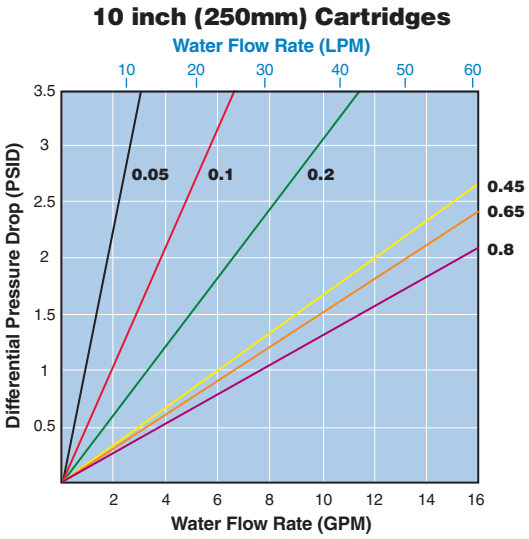
Packed 6 per case, with cartridges individually bagged and cartoned.

Model	Length	Micron Size	End Cap Code	O-Rings Gaskets	Options
PS	10 **(10")**	0.01	DOE (double open end)	E (EPDM)*	I (stainless steel insert)
	20 **(20")**	0.05	213 (internal o-ring)	B (Buna)	HP (heavy poly core)
	30 **(30")**	0.2	222 (flat cap)	S (Silicone)	R (18 megohm rinse)
	40 **(40")**	0.45	222-F (fin)	V (Viton)	
		0.65	226 (flat cap)	T (Teflon Encapsulated Viton)	
		0.8	226-F (fin)		

Example: PS – 20 – 0.2 – 222-F – E

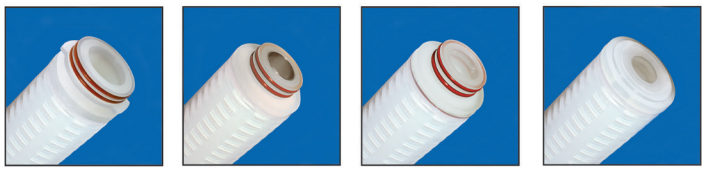
EPDM is standard for all o-rings and gaskets, unless otherwise noted.

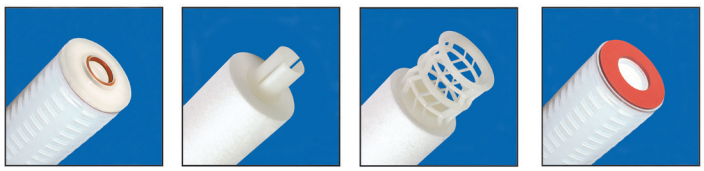
Flow Rate



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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