MicroVantage™ WGPS Series

Water Grade Polysulfone Membrane Filter Cartridges





Specifications & Operating Parameters

Pore Sizes 0.03, 0.05, 0.1, 0.2, 0.45, 0.65, 1.0 microns absolute retention

Nominal Lengths 9.75" (24.7 cm), 10" (25.4 cm), 20" (50.8 cm), 30" (76.2 cm), 40" (101.6 cm)

Outside Diameter 2.67" (6.78 cm)

Inside Diameter 1.0" (2.54 cm)

Media Surface Area 6.0 sq.ft. (0.56 m2) per 10 inches filter length

Gaskets/O-rings

Silicone, Buna N, EPR, Viton, Teflon Encapsulated Viton (O-rings only)

Materials of Construction

Filter Media:	Polysulfone	
Outer Cage	Polypropylene	
Inner Core:	Polypropylene	
End caps:	Polypropylene	

- Absolute retention ratings from 0.03 to 1.0 microns
- 6.0 square feet (0.56 m2) of media surface area per ten inch length for optimal performance
- Highly tapered asymmetric pore structure provides excellent flow rate and dirt holding capacity
- Cost effective absolute filtration for less critical applications not integrity tested
- Rigid, molded cage protects pleated media and strengthens
 structural stability
- · Manufactured in state-of-the-art white room for high purity
- Complies with Food & Drug Administration's CFR criteria for food & beverage contact.
- Meets USP Class VI Biological Test for plastics
- Available in common and end cap configurations to fit most filter housings
- Produced in standard lengths up to 40 inches

Applications

RO Pre/Post Filtration	Food & Beverage	
DI Water	Bottled Water	
Plating Solutions	Microelectronics	
Specialty Chemicals	Process Water	
Water & Wastewater	Cosmetics	

Maximum Operating Temperature 176°F (80°C)

Recommended Change-out Differential Pressure 35 psid (2.4 bar)

Maximum Differential (Collapse) Pressure

Forward: 75 psid @ 70°F (5.2 bar @ 21°Č) Reverse: 40 psid @ 176°F (2.8 bar @ 80°C)

Sanitization and Sterilization

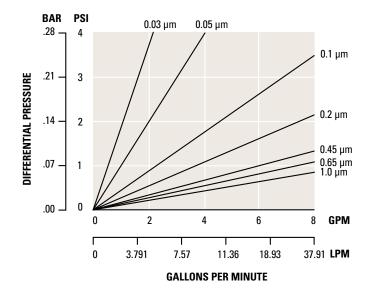
Hot water at 175°F (80°C) at 5 psid for 30 minutes In-line steam at 257°F (125°C) @ 1 psid (0.7 bar) for 30 minutes Autoclavable at 257°F (125°C) for 30 minutes

FDA and USP Compliance

All materials comply with the requirements of Food and Drug Administration Title 21 of The Code of Federal Regulations 174.5, 177.1520 and 177.1630. All components meet current USP Class VI biological tests for plastics

www.shelco.com

Flow vs. Pressure Drop



This chart represents typical water flow per 10" cartridge length. The test fluid is water at ambient temperature. Extrapolation for multiple elements tends to be linear, but as flows increase the ΔP of the housing becomes more apparent.

WGPS	0.2 -	- 10	S4	S
PRODUCT CODE	MICRON	LENGTH	END CAP CONFIGURATION	GASKET / O-RING
WGPS	0.03 0.05 0.1 0.2 0.45 0.65 1.0	9.75" 10" 19.75" 20" 29.25" 30" 40"	S1 = DOE S3 = 222 w/ Fin End S4 = 222 w/ Flat End S5 = 226 w/ Fin End S6 = 226 w/ Flat End S7 = Internal O-ring with Recessed Plug S9 = Internal O-ring on both ends	B = Buna N E = EPR S = Silicone V = Viton T = Teflon Encapsulated Viton (O-ring only)

Ordering Guide (Example: WGPS0.2-10S4S)

Filter Housings

Shelco manufactures a full line of filter housings. From our rugged single cartridge housings to our heavy duty multi-cartridge housings. Shelco is the perfect choice for your filtration solutions.



Shelco Filters 100 Bradley Street Middletown, CT 06457 USA Tel: 800-543-5843 / Fax: 860-854-6120 / E-mail: info@shelco.com

MicroSentryTM, MicroVantageTM, Shelco Filters® and the Shelco logo are registered trademarks of the Tinny Corporation. Shelco Filters is a division of the Tinny Corporation.