GWPES-Series Water Service Grade Polyethersulfone

GWPES-Series High Purity Water Service Grade Polyethersulfone Filter Cartridges are a value-oriented, reduced surface area choice for cost effective, general purpose membrane filtration. The highly retentive polyethersulfone membrane offers excellent flux density and low protein-binding. The naturally hydrophilic membrane wets easily to allow for the maximum utilization of the surface area. These features allow the GWPES-Series to provide the fine performance of PES membrane at a competitive price. Manufactured in a clean-room environment to maintain high standards of purity and cleanliness. Designed to tolerate repeated hot water sanitization and in-situ steam sterilization cycles.

Construction Materials
Membrane……………………………………………………………Polyethersulfone
Support Media……………………………………………Polypropylene
End Caps……………………………………………………………Polypropylene
Center Core…………………………………………………Polypropylene
Outer Support Cage………………………………………Polypropylene
O-Rings/Gaskets…………………Buna, EPDM, Silicone, Teflon® Encapsulated Viton®, Viton®, Teflon® Encapsulated Silicone

Sanitation/Sterilization
Filtered Hot Water,…………………..80˚C for 30 min.
Steam Sterilization,…………………121˚C for 30 min., multiple cycles

Chemicals: Cartridges are compatible with most chemical sanitizing agents.

Note: Stainless steel insert option required for all cartridges being hot water sanitized or steam sterilized.

Toxicity
All polypropylene components meet the specifications for biological safety per USP Class VI – 121˚C for plastics.

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

Operating Conditions
Change Out ∆P (recommended)…………………35 PSID
Temperature (max)…………………..176˚F (80˚C)
Differential Pressure (max)…………………50 PSID (3.4 bar) at 68˚F (20˚C)

Food Safety Compliance
Materials of construction comply with FDA regulations for food and beverage contact use as detailed in the US Code of Federal Regulations, 21CFR. Materials used to produce filter media and hardware are deemed safe for use in contact with foodstuffs in accordance with EU Directives 2002/72/EC, 1935/2004, and/or 10/2011.

Typical Applications
• Deionized Water Systems
• General-Use Water Filtration
• Liquid Clarification
• Recirculating Fluids
• Chemical Filtration

Flow Rate vs Pressure Drop

Ordering Information

<table>
<thead>
<tr>
<th>GW PES</th>
<th>Rating (µ)</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Style</th>
<th>O-Rings/Gaskets</th>
<th>-</th>
<th>Adders</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.04</td>
<td>10” (25.4 cm)</td>
<td>2 = DOE-Flat Gasket</td>
<td>B = Buna</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>20” (50.8 cm)</td>
<td>3 = 222 w/ Fin</td>
<td>E = EPDM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2</td>
<td>30” (76.2 cm)</td>
<td>4 = 222 w/ Flat Cap</td>
<td>S = Silicone</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.45</td>
<td>40” (101.6 cm)</td>
<td>6 = 226 w/ Flat Cap</td>
<td>T = Teflon® Encapsulated Viton®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.65</td>
<td>7 = 226 w/ Fin</td>
<td>8 = 226 3-tabs w/ Fin</td>
<td>V = Viton®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.8</td>
<td>16 = 213 Internal O-Ring</td>
<td>28 = 222 3-tabs w/ Fin</td>
<td>Z = Teflon® Encapsulated Silicone</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DISCLAIMER: Filtration data presented is representative of performance observed in controlled laboratory testing. It is not given as a warranty, specification or statement of fitness for use. Specific performance can vary widely depending on contaminant type, fluid properties, flow rates and environmental conditions. It is recommended that users conduct thorough qualification testing to assure the product functions as required.

Global Filter
Filtration Group®
Corporate Office
7201 Mt. Vernon Road SE
Cedar Rapids, IA 52403 USA
Phone
Phone:    + 1 877 603 1003
Fax:      + 1 319 743 0220
Online
Website:  www.globalfilter.com
          www.filtrationgroup.com