Filtering SOLUTIONS

Cleanliness Is Key
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GlobalFilterCorp.com  |  Issue 2012

Production is a process—we keep you flowing.

TURN THE PAGE TO CHECK OUT OUR PROMISE.
Filtering
SOLUTIONS

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We filter everything—but the savings.

At Global Filter, we’re not just about products that help keep your processes flowing, we’re also here to solve your filtering problems and issues.

On the pages that follow, you’ll find photos that verify our work environment and commitment to clean production processes. You will also find everything you need for liquid filtration—from removing nagging color to eliminating endotoxins and contaminants.

The Global Filter advantage:
• Solve filtering problems
• Reduce downtime
• Engineering precision
• Flexible and responsive
• No bureaucracy

We are committed to the best practices in developing high-quality service and performance. We like to say, “High purity, high efficiency and high economy.” What it means to you is high performance.

As you look through the pictures and the products, I think you will find a shared spirit of success throughout this catalog.

As president, I make this promise to you: If anything you order fails to meet your specifications, call me directly. We’ll make it right.

Thank you for your interest in, and use of, Global Filter products. If you have any suggestions, please let me know. You can contact me toll-free at 877-603-1003, or email me at Todd@GlobalFilterCorp.com.

Yours in fluid management,

Todd Youngren
President
Global Filter LLC
Our warehouse in Marion, Iowa: The vessels you need. In stock. And 300,000 meltblown cartridges ready for same-day shipment.

Founded in 1999 in Cedar Rapids, Iowa, Global Filter produces high-purity pleated filter cartridges in our state-of-the-art production facility.

From modest beginnings as a family, home-based business, Global Filter now serves customers—as our name implies—across the globe. Some of the biggest names in liquid filtration trust their reputations to Global Filter.

We provide liquid filtration solutions for a wide range of industries, including:

- Food & Beverage
- Pharmaceutical
- Enzyme
- Ethanol
- Electronics
- Water Service
- Reverse Osmosis
- Chemical
- Petro-Chemical
- Refining
- Ink/Paint
- Cosmetics

From modest beginnings as a family, home-based business, Global Filter now serves customers—as our name implies—across the globe. Some of the biggest names in liquid filtration trust their reputations to Global Filter.

The inventory you need to keep your processes flowing.
Our cleanroom features epoxy floors, HEPA air filtration, a positive-pressure area and many other features to ensure our customers receive the products they expect in the high-purity world.

Technologically advanced, custom-designed equipment, dedicated and precise technicians and the cleanest of all possible environments combine to help us produce the highest-quality pleated cartridges and membranes.

We’ll meet your specs —guaranteed.
Take a look around our production facility and you can see our commitment to cleanliness, efficiency, quality and service.

Not just pleats and plastic—fluid management solutions.
Our Products

Improve cleanliness and optimize your process with our full line of products:

- Pleated Cartridges and Membranes
- Depth Cartridges
- Swing-Bolt Cartridge and Bag Vessels
- Band-Clamp Cartridge and Bag Vessels
- Custom Filtration Systems

Featured Products

- Highly Asymmetric Polysulfone Membrane Cartridges for Electronics Applications
- Charged Nylon 6,6 Cartridges for Endotoxin Removal in Food & Beverage Applications

Customized solutions, precision, satisfaction.
Filter Data Sheet

Cartridge End Cap Configurations

- Open (DOE)
- Spring
- PP Core Ext.
- 213 Internal O-Ring
- Flat (for 213)
- 222
- 222 (w/SS Insert)
- 226
- 226 (w/SS Insert)
- Flat Cap
- Fin

Filter Data Sheet

High Purity - PP
Pleated Polypropylene Cartridge

Pleated Polypropylene Cartridges are designed for use in most applications where absolute rated pleated filtration is needed. Designed to hold 6.5 square feet of filtration media, our High Purity - PP Cartridge is a great value. These cartridges are constructed with 100% polypropylene materials and assembled using the latest thermal bonding equipment. Efficiency ratings to 99.98% (Beta 5000).

Flow Rate

<table>
<thead>
<tr>
<th>Water Flow Rate (GPM)</th>
<th>Water Flow Rate (LPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>0.2</td>
<td>0.8</td>
</tr>
<tr>
<td>0.45</td>
<td>1.8</td>
</tr>
<tr>
<td>1.0</td>
<td>3.8</td>
</tr>
<tr>
<td>2.0</td>
<td>7.6</td>
</tr>
<tr>
<td>2.5</td>
<td>10.0</td>
</tr>
<tr>
<td>3.0</td>
<td>12.0</td>
</tr>
<tr>
<td>4.0</td>
<td>16.0</td>
</tr>
<tr>
<td>5.0</td>
<td>20.0</td>
</tr>
<tr>
<td>10.0</td>
<td>30.0</td>
</tr>
<tr>
<td>20.0</td>
<td>40.0</td>
</tr>
<tr>
<td>40.0</td>
<td>80.0</td>
</tr>
</tbody>
</table>

Constructions Materials

- Filtration Media: Polypropylene
- Support Media: Polypropylene
- End Caps: Polypropylene
- Center Core: Polypropylene
- Outer Support Cage: Polypropylene
- O-Rings/Gaskets: Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton

Sanitization/Sterilization

- Filtered Hot Water: 80°C for 30 min.
- Steam Sterilization: 121°C for 30 min., 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.

Ordering Information

<table>
<thead>
<tr>
<th>PP Pore Size</th>
<th>Length</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>Adders</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>10 (25.4 cm)</td>
<td>2 = DOE Flat Gasket</td>
<td>B = Buna</td>
<td>I = Stainless Steel Insert</td>
</tr>
<tr>
<td>0.45</td>
<td>20 (50.8 cm)</td>
<td>3 = 222 w/ Fin</td>
<td>E = EPDM</td>
<td>HP = Heavy Poly Core</td>
</tr>
<tr>
<td>1.0</td>
<td>30 (76.2 cm)</td>
<td>4 = 222 w/ Flat Cap</td>
<td>5 = Silicone</td>
<td>FG = Glass Reinforced PP Core</td>
</tr>
<tr>
<td>2.0</td>
<td>40 (101.6 cm)</td>
<td>5 = 222 w/ Spring</td>
<td>V = Viton</td>
<td>SS = Stainless Steel Core</td>
</tr>
<tr>
<td>5.0</td>
<td>6 = 226 w/ Flat Cap</td>
<td>7 = 226 w/ Fin</td>
<td>T = Teflon® End Capulated Viton</td>
<td>R = 18 Megahn Rinse</td>
</tr>
<tr>
<td>10.0</td>
<td>7 = 226 w/ Fin</td>
<td>8 = 226 w/ Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.0</td>
<td>8 = 226 w/ Spring</td>
<td>9 = 226 w/ Fin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40.0</td>
<td>10 = 213 Internal O-Ring</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Dimensions

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

Maximum Recommended Operating Conditions

- Change Out: ∆P 35 PSI
- Temperature: 80˚C for 30 min., 121˚C for 30 min., multiple cycles.
- Toxicity: All polypropylene components meet the specifications for biological safety per USP Class VI – 121°C for plastics.
Economy Pleated Polypropylene Cartridges offer a highly efficient and cost-effective filtration option for use in a wide variety of applications. These cartridges are constructed of 100% polypropylene materials and are assembled using the latest thermal bonding equipment. Cartridges are offered in D22 and 222 end configurations as well as in both nominal (90%) and absolute (to 99.98%) retention efficiencies.

**Flow Rate**

10 inch (250 mm) Cartridges

Water Flow Rate (LPM)

<table>
<thead>
<tr>
<th>Water Flow Rate (LPM)</th>
<th>Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>1</td>
<td>0.6</td>
</tr>
<tr>
<td>2</td>
<td>1.8</td>
</tr>
<tr>
<td>3</td>
<td>3.0</td>
</tr>
<tr>
<td>4</td>
<td>4.2</td>
</tr>
<tr>
<td>5</td>
<td>5.4</td>
</tr>
<tr>
<td>6</td>
<td>6.6</td>
</tr>
<tr>
<td>7</td>
<td>7.8</td>
</tr>
<tr>
<td>8</td>
<td>9.0</td>
</tr>
</tbody>
</table>

**Dimensions**

- **Length:** 10 to 40 inches (25.4 to 101.6 cm) nominal
- **Outside Diameter:** 2.50 inches (6.35 cm) nominal
- **Inside Diameter:** 2.25 inches (5.72 cm) nominal
- **End Cap Code:**
  - A = Absolute
  - N = Nominal
  - L = Length
  - D = Diameter
- **Pore Size (Micron):**
  - 0.2
  - 0.45
  - 1.0
  - 2.0
  - 5.0
  - 10.0
  - 20.0
  - 40.0

**Construction Materials**

- **Filtration Media:** Polypropylene, Polyester
- **Support Media:** Polypropylene
- **Center Core:** Polypropylene
- **Outer Support Netting:** Polypropylene
- **O-Rings/Gaskets:** Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton

**Economy Pleated Polypropylene Cartridge**

**Applications**

- Food & Beverage
- Fine Chemicals
- Process Water
- Deionized Water
- Plating Chemicals
- Wastewater
- R.O. Membrane
- Process Water
- Food & Beverage
- Photographic
- Cosmetic
- Fine Chemicals
- Process Water
- R.O. Membrane
- Deionized Water
- Photographic
- Cosmetic

**Operating Conditions**

- **Temperature:** 176°F (80°C)
- **Differential Pressure:** Up to 35 PSI

**FDA Listed Materials**

Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

**Purity**

LiquidClear cartridges are produced using 100% synthetic fibers, which are free of binders or adhesives.

**Typical Applications**

- Process Water
- Plating Chemicals
- Cooling Water
- Wastewater
- R.O. Pre-Filtration
- Deionized Water

**Performance Specifications**

- **Micron Rating:** 0.45
- **Efficiency:** 99.7%
- **Cross-Reference:** Pentek, R-Series, ECP Series

**Ordering Information**

<table>
<thead>
<tr>
<th>PPE</th>
<th>Diameter</th>
<th>Micron Rating</th>
<th>Length</th>
<th>End Cap Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>B = Buna</td>
<td>9.75</td>
<td>35</td>
<td>BLANK = DOE</td>
</tr>
<tr>
<td>0.45</td>
<td>E = EPDM</td>
<td>1</td>
<td>10 (BB Only)</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>S = Silicon</td>
<td>19.5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td>V = Viton</td>
<td>30</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td>T = Teflon® Encapsulated Viton</td>
<td>29.25</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>30</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>40</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td></td>
<td></td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>
Filter Data Sheet

High Purity - FG

Pleated Microglass Cartridges offer an economical, absolute rated, filtration solution for both liquids and gases. They offer excellent flow rates and long service life with an exceptional ability to retain both deformable and non-deformable particles.

High Purity - FG Cartridges are constructed with absolute rated borosilicate microglass media that offers high dirt-loading capacities. The natural positive charge of the glass also aids in the retention of negatively charged particulates such as bacteria, endotoxins and a variety of colloidal materials. Efficiency ratings to 99.98% (Beta 5000).

**Construction Materials**
- Filtration Media: FDA Borosilicate Microglass with acrylic binder.
- Support Media: Spun-bonded polyester laminated on both upstream and downstream sides.
- End Caps: Polypropylene
- Center Core: Fiber-glass Outer Support Caps: Polypropylene
- O-Rings/Gaskets: Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton

**Note:** Contact factory for information on high-temperature stainless construction options.

**Sanitization/Sterilization**
- Filtered Hot Water: 121°C for 30 min.
- Steam Sterilization: 121°C for 30 min., 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.

**Dimensions**
- Length: 10 to 40 inches (25.4 to 101.6 cm) nominal

**Maximum Recommended Operating Conditions**
- Temperature: 100°F (37°C)

**Flow Rate**
- Water Flow Rate (GPM): 0.2 to 5.0

---

**Filter Data Sheet**

**Economy - FG**

Economy Pleated Microglass Cartridges offer a highly efficient and cost-effective filtration option for use in a wide variety of applications. These cartridges are constructed of FDA materials and are assembled using the latest thermal-bonding equipment. Cartridges are offered in DOE and 222 end configurations as well as in both nominal (90%) and absolute (to 99.98%) retention efficiencies.

**Flow Rate**
- Water Flow Rate (GPM): 0.2 to 5.0

---

**Typical Applications**
- Food & Beverage
- Pharmaceutical
- Deionized Water
- Process Water
- Solvents
- Fine Chemicals
- Hydrocarbons
- Fine Chemicals
- Process Water
- Pre-Filtration

**Economy Pleated Microglass Cartridges**
- Manufactured from materials which are listed in Title 21 of the U.S. Code of Federal Regulations.

**FDA Listed Materials**
- Manufactured from materials which are listed in Title 21 of the U.S. Code of Federal Regulations.

**Ordering Information**

<table>
<thead>
<tr>
<th>FG</th>
<th>Pore Size</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>10 (25.4 cm)</td>
<td>A = Absolute</td>
<td>3 = DOE Flat Gasket</td>
<td>B = Buna</td>
<td>I = Stainless Steel Insert</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.45</td>
<td>20 (50.8 cm)</td>
<td>N = Nominal</td>
<td>3 = 222 w/ Fin</td>
<td>E = EPDM</td>
<td>SS = Stainless Steel Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</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>
</tr>
<tr>
<td>2.0</td>
<td>40 (101.6 cm)</td>
<td>5 = 222 w/ Spring</td>
<td>V = Viton</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0</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>4.0</td>
<td>8 = 226 w/ Fin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.0</td>
<td>12 = 226 w/ Fin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

**Ordering Information**

<table>
<thead>
<tr>
<th>FG</th>
<th>Pore Size</th>
<th>Retention</th>
<th>Length</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>Adders</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>A = Absolute</td>
<td>10 (25.4 cm)</td>
<td>2 = DOE Flat Gasket</td>
<td>B = Buna</td>
<td>SS = Stainless Steel Core</td>
<td></td>
</tr>
<tr>
<td>0.45</td>
<td>N = Nominal</td>
<td>20 (50.8 cm)</td>
<td>3 = 222 w/ Fin</td>
<td>E = EPDM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>30 (76.2 cm)</td>
<td>4 = 222 w/ Flat Cap</td>
<td>S = Silicone</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.0</td>
<td>40 (101.6 cm)</td>
<td>5 = 222 w/ Spring</td>
<td>V = Viton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.0</td>
<td>T = Teflon® Encapsulated Viton</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Global Filter**

**Filter Data Sheet**

**High Purity - Polysulfone (PS) Membrane**

Hydrophilic Polysulfone Membrane for Water and Aqueous Solutions

- Highly asymmetric polysulfone membrane media
- Absolute rated at >99.9% efficiency with retention ratings from 0.01 to 1.0 μm
- Superior flow rates and long service life
- High purity polypropylene hardware
- End configurations to fit most vessels
- Rinse up to 18 megohm with a minimum throughput
- Pre-rinse option available
- Surface area = 6.1 ft. 2 (0.57 m²) per 10" (25.4 cm)

**Liquid Flow Specifications**

<table>
<thead>
<tr>
<th>Filter Grade (µm)</th>
<th>Flow Rate (LPM)</th>
<th>Differential Pressure (PSID)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td>0.65</td>
<td>0.04</td>
</tr>
<tr>
<td>0.1</td>
<td>1.90</td>
<td>0.04</td>
</tr>
<tr>
<td>0.2</td>
<td>3.13</td>
<td>0.45</td>
</tr>
<tr>
<td>0.45</td>
<td>6.02</td>
<td>0.65</td>
</tr>
<tr>
<td>0.65</td>
<td>6.62</td>
<td>0.80</td>
</tr>
<tr>
<td>0.8</td>
<td>7.72</td>
<td>1.2</td>
</tr>
</tbody>
</table>

**Typical Applications**

Deionized Water Systems
General-Use Water Filtration
Liquid Clarification
Recirculating Fluids
Chemical Sanitization

**Construction Materials**

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

**Sanitization/Sterilization**

Filtered Hot Water: 80°C for 30 min.
Steam Sterilization: 121°C for 30 min., 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.

**Dimensions**

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

**Maximum Recommended Operating Conditions**

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.

**Ordering Information**

<table>
<thead>
<tr>
<th>GHPS</th>
<th>Pore Size</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>-</th>
<th>Adders</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td>10 (25.4 cm)</td>
<td>0.1</td>
<td>2</td>
<td>DOE Flat Gasket</td>
<td>B = Buna</td>
<td>1 = Stainless Steel Insert</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2</td>
<td>20 (50.8 cm)</td>
<td>0.2</td>
<td>4</td>
<td>222 w/ Flat Cap</td>
<td>E = EPDM</td>
<td>HP = Heavy Poly Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.3</td>
<td>30 (76.2 cm)</td>
<td>0.45</td>
<td>6</td>
<td>226 w/ Flat Cap</td>
<td>V = Viton</td>
<td>R = 18 Megohm Rinse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.65</td>
<td>40 (101.6 cm)</td>
<td>0.8</td>
<td>7</td>
<td>226 w/ Flat Cap</td>
<td>T = Teflon® Encapsulated Viton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>16 = 213 Internal O-Ring</td>
<td>1 = Stainless Steel Insert</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Global Filter**

**Filter Data Sheet**

**High Purity – Water Service Grade PES Membrane**

Hydrophilic Polyethersulfone (PES) Membrane for Water Purification

**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. These cartridges offer excellent flow characteristics, extended service life and broad chemical compatibility.

**Flow Rate**

**Water Flow Rate (LPM)**

<table>
<thead>
<tr>
<th>Water Flow Rate (LPM)</th>
<th>3.8</th>
<th>7.6</th>
<th>11.4</th>
<th>15.2</th>
<th>19.0</th>
<th>22.8</th>
<th>26.6</th>
<th>30.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Differential Pressure (PSID)</td>
<td>0.04</td>
<td>0.1</td>
<td>0.2</td>
<td>0.3</td>
<td>0.4</td>
<td>0.5</td>
<td>0.6</td>
<td>0.8</td>
</tr>
</tbody>
</table>

**Construction Materials**

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

**Sanitization/Sterilization**

Filtered Hot Water: 80°C for 30 min.
Steam Sterilization: 121°C for 30 min., 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.

**Dimensions**

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

**Maximum Recommended Operating Conditions**

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.

**Ordering Information**

<table>
<thead>
<tr>
<th>GWPES</th>
<th>Pore Size</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Code</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>0.1</td>
<td>2</td>
<td>DOE Flat Gasket</td>
<td>B = Buna</td>
<td>1 = Stainless Steel Insert</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>20 (50.8 cm)</td>
<td>0.2</td>
<td>4</td>
<td>222 w/ Flat Cap</td>
<td>E = EPDM</td>
<td>HP = Heavy Poly Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2</td>
<td>30 (76.2 cm)</td>
<td>0.45</td>
<td>6</td>
<td>226 w/ Flat Cap</td>
<td>V = Viton</td>
<td>R = 18 Megohm Rinse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.65</td>
<td>40 (101.6 cm)</td>
<td>0.8</td>
<td>7</td>
<td>226 w/ Flat Cap</td>
<td>T = Teflon® Encapsulated Viton</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.2</td>
<td>16 = 213 Internal O-Ring</td>
<td>1 = Stainless Steel Insert</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Filter Data Sheet

High Purity – General Grade PES
Hydrophilic Polyesulfone (PES) Membrane for Liquid Applications

General Grade PES Cartridges are designed for general purpose use wherever a cost effective membrane filter is required. Manufactured to hold the maximum amount of filter media that can be completely and effectively utilized in a cartridge. General Grade Cartridges are manufactured from an inherently hydrophilic PES membrane. These cartridges offer excellent flow characteristics, extended service life and broad chemical compatibility.

Flow Rate

- Water Flow Rate (LPM)
- Water Flow Rate (GPM)

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

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

Sanitization/Stabilization
Filtered Hot Water: 80°C for 30 min.
Steam Sterilization: 121°C for 30 min., 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.

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

Maximum Recommended Operating Conditions
Temperature: 176°F (80°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.

Filter Data Sheet

High Purity – Electronics Grade PES
Hydrophilic Polyesulfone (PES) Membrane for Electronics Applications

Electronics Grade PES Cartridges are designed to meet the special needs of the electronics and high purity chemical industries. Polyesulfone membrane cartridges are resistant to most acids and bases; capable of handling strong sanitization agents. High flow rates make polyethersulfone a good choice for Ultra-Pure water systems. Each cartridge is flushed with 18 meq/m³ high purity water to minimize extractable. Each cartridge is also individually integrity tested.

Flow Rate

- Water Flow Rate (LPM)
- Water Flow Rate (GPM)

Typical Applications
Ultra-Pure Water Systems
Fine Chemical Filtration
Electronics - Photoresist

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

Sanitization/Stabilization
Filtered Hot Water: 80°C for 30 min.
Steam Sterilization: 121°C for 30 min., 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.

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

Maximum Recommended Operating Conditions
Temperature: 176°F (80°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.

Ordering Information

<table>
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<tr>
<th>GGPE5</th>
<th>Pore Size (A)</th>
<th>Length (in.)</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>Adders</th>
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</thead>
<tbody>
<tr>
<td>0.04</td>
<td>10 (25.4 cm)</td>
<td>2 = DOE Flat Gasket</td>
<td>B = Buna</td>
<td>I = Stainless Steel Insert</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>
</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>
</tr>
<tr>
<td>0.45</td>
<td>40 (101.6 cm)</td>
<td>5 = 226 w/ Flat Cap</td>
<td>Y = Viton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.8</td>
<td>16 = 213 Internal O-Ring</td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>GEPE5</th>
<th>Pore Size (A)</th>
<th>Length (in.)</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</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>I = Stainless Steel Insert</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>
</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>
</tr>
<tr>
<td>0.45</td>
<td>40 (101.6 cm)</td>
<td>5 = 226 w/ Flat Cap</td>
<td>Y = Viton</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.65</td>
<td>7 = 226 w/ Fin</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.8</td>
<td>16 = 213 Internal O-Ring</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
Food and Beverage Grade PES Cartridges have been designed to comply with all FDA requirements for the food industry. Polyethersulfone is a low protein binding membrane and therefore a good choice for fermented beverage applications. Food and Beverage Cartridges are flushed with DI water to remove manufacturing debris and extractable. Each cartridge module is tested to ensure integrity.

**Typical Applications**

- **Wine**
- **Beer**
- **Juices**
- **Soft Drinks**
- **Bottled Water**

**Flow Rate**

<table>
<thead>
<tr>
<th>Differential Pressure (PSID)</th>
<th>Water Flow Rate (GPM)</th>
<th>Water Flow Rate (LPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0.65</td>
<td>0.25</td>
</tr>
<tr>
<td>1</td>
<td>0.45</td>
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</tr>
<tr>
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<td>0.3</td>
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<td>0.02</td>
</tr>
<tr>
<td>6</td>
<td>0.03</td>
<td>0.01</td>
</tr>
</tbody>
</table>

**Dimensions**

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

**Maximum Recommended Operating Conditions**

- **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.

**Construction Materials**

- **Membrane**: Polyethersulfone
- **Support Media**: Polypropylene
- **Center Core**: Polypropylene
- **Outer Support Cage**: Polypropylene
- **O-Rings/Gaskets**: Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton

**Sanitization/Sterilization**

- **Filtered Hot Water**: 80°C for 30 min.
- **Steam Sterilization**: 121°C for 30 min., multiple cycles.

**Chemicals**

Compatible with most chemicals and sanitizing agents. Note: Stainless steel insert option needed for all cartridges being hot water sanitized or steam sterilized.

**End Cap Code**

- **2** = DOE Flat Gasket
- **3** = 222 w/ Flat Cap
- **4** = 222 w/ Fin
- **5** = Silicone
- **6** = 226 w/ Flat Cap
- **7** = 226 w/ Fin
- **1** = Stainless Steel Insert
- **T** = Teon® Encapsulated Viton
- **V** = Viton

**oo Adders**

- **2** = DOE Flat Gasket
- **3** = 222 w/ Flat Cap
- **4** = 226 w/ Flat Cap
- **6** = 226 w/ Flat Cap
- **16** = 213 Internal O-Ring
**Filter Data Sheet**

**High Purity – Electronics Grade Nylon 6,6 and Plus+ Nylon 6,6**

Hydrophilic Nylon 6,6 for Electronics Applications

---

### Construction Materials

- **Membrane**: Nylon 6,6
- **Support Media**: Polypropylene
- **End Caps**: Polypropylene
- **Center Core**: Polypropylene
- **Outer Support Cage**: Polypropylene
- **O-Rings/Gaskets**: Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton

### Sanitization/Sterilization

- **Filtered Hot Water**: 80°C for 30 min.
- **Steam Sterilization**: 121°C for 30 min., 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.

### Dimensions

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

### 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.

### Ordering Information

<table>
<thead>
<tr>
<th>GHNYY</th>
<th>Pore Size</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>-</th>
<th>Adders</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHNYY-6</td>
<td>0.03</td>
<td>10 (25.4 cm)</td>
<td>2 = DOE Flat Gasket</td>
<td>B = Buna</td>
<td>I = Stainless Steel Insert</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.05</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>
</tr>
<tr>
<td></td>
<td>0.1</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>
</tr>
<tr>
<td></td>
<td>0.2</td>
<td>40 (101.6 cm)</td>
<td>6 = 226 w/ Flat Cap</td>
<td>V = Viton</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.45</td>
<td>7 = 226 w/ Fin</td>
<td>7 = Teflon® Encapsulated Viton</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.65</td>
<td>16 = 213 Internal O-Ring</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.8</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GHNYY-4</td>
<td>0.03</td>
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<td>2 = DOE Flat Gasket</td>
<td>B = Buna</td>
<td>I = Stainless Steel Insert</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.05</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>
</tr>
<tr>
<td></td>
<td>0.1</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>
</tr>
<tr>
<td></td>
<td>0.2</td>
<td>40 (101.6 cm)</td>
<td>6 = 226 w/ Flat Cap</td>
<td>V = Viton</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.45</td>
<td>7 = 226 w/ Fin</td>
<td>7 = Teflon® Encapsulated Viton</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>0.65</td>
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<td></td>
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<td></td>
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</tr>
</tbody>
</table>

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**Filter Data Sheet**

**High Purity – Food and Beverage Grade Nylon 6,6 and Plus+ Nylon 6,6**

Hydrophilic Nylon 6,6 for the Food and Beverage Industry

---

### Construction Materials

- **Membrane**: Nylon 6,6
- **Support Media**: Polypropylene
- **End Caps**: Polypropylene
- **Center Core**: Polypropylene
- **Outer Support Cage**: Polypropylene
- **O-Rings/Gaskets**: Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton

### Sanitization/Sterilization

- **Filtered Hot Water**: 80°C for 30 min.
- **Steam Sterilization**: 121°C for 30 min., 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.

### Dimensions

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

### 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.

### Ordering Information

<table>
<thead>
<tr>
<th>GHNYY</th>
<th>Pore Size</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>-</th>
<th>Adders</th>
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</thead>
<tbody>
<tr>
<td>GHNYY-6</td>
<td>0.03</td>
<td>10 (25.4 cm)</td>
<td>2 = DOE Flat Gasket</td>
<td>B = Buna</td>
<td>I = Stainless Steel Insert</td>
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<td>3 = 222 w/ Fin</td>
<td>E = EPDM</td>
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<td></td>
</tr>
<tr>
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<td>0.1</td>
<td>30 (76.2 cm)</td>
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<td></td>
<td></td>
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<tr>
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<tr>
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<td>0.45</td>
<td>7 = 226 w/ Fin</td>
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<td>I = Stainless Steel Insert</td>
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<td></td>
<td>0.05</td>
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<td>3 = 222 w/ Fin</td>
<td>E = EPDM</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.1</td>
<td>30 (76.2 cm)</td>
<td>4 = 222 w/ Flat Cap</td>
<td>S = Silicone</td>
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<td>40 (101.6 cm)</td>
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<td>V = Viton</td>
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<td></td>
<td>0.65</td>
<td>16 = 213 Internal O-Ring</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

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Filter Data Sheet

High Purity – General Grade Teflon®
Hydrophobic Teflon® Membrane for Liquid and Air Applications

General Grade Teflon® Cartridges are designed for multi-purpose use wherever a cost effective Teflon® membrane cartridge is required. These Teflon® membranes are hydrophobic and resists wetting in critical air/vent applications. Priced below special purpose Teflon® filter cartridges, General Grade Teflon® Cartridges are still manufactured with the same careful attention to quality and performance.

Construction Materials
Membrane………………………………. Teflon®
Support Media…………………………….Polypropylene
End Caps………………………………….Polypropylene
Center Core………………………………Polypropylene
Outer Support Cage…………………Polypropylene
O-Rings/Gaskets Buna, Viton, EPDM, Silicone, Teflon® Encapsulated Viton
Sanitization/Stabilization
Filtered Hot Water………..80°C for 30 min.
Steam Sterilization……121°C for 30 min., 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.

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

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.

Ordering Information

<table>
<thead>
<tr>
<th>GGPTFE</th>
<th>Pore Size (µm)</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>-</th>
<th>Adders</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1</td>
<td>10 (25.4 cm)</td>
<td>2</td>
<td>DOE Flat Gasket</td>
<td>B</td>
<td>Buna</td>
<td>E = EPDM</td>
<td>-</td>
<td>I = Stainless Steel Insert</td>
</tr>
<tr>
<td>0.2</td>
<td>20 (50.8 cm)</td>
<td>4</td>
<td>222 w/ Flat Cap</td>
<td>S</td>
<td>Silicone</td>
<td>V = Viton</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>0.45</td>
<td>30 (76.2 cm)</td>
<td>6</td>
<td>226 w/ Flat Cap</td>
<td>V</td>
<td>Viton</td>
<td>T = Teflon® Encapsulated Viton</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>0.45</td>
<td>40 (101.6 cm)</td>
<td>7</td>
<td>226 w/ Flat Cap</td>
<td>T</td>
<td>Teflon® Encapsulated Viton</td>
<td>-</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Filter Data Sheet

High Purity – FluoroClear Pleated All-Fluorocarbon

FluoroClear Cartridges are designed for highly aggressive wet-etch and cleaning applications. FluoroClear cartridges are constructed with 100% fluorocarbon materials, providing broad chemical compatibility and temperature resistance. The PTFE membrane delivers high flow rates and high purity effluent at low pressure drops. Cartridges are available as flushed & dried or as wet-packed (60/40% DI Water/IPA Solution). FluoroClear cartridges are manufactured in a cleanroom environment to ensure product cleanliness.

Construction Materials
Membrane………………………………. PTFE
Support Media…………………………….ECTFE
End Caps………………………………….ECTFE
Center Core………………………………ECTFE
Outer Support Cage……………………ECTFE
O-Rings/Gaskets………………………...Teflon® Encapsulated Viton
Sanitization/Stabilization
FluoroClear cartridges can be sanitized using compatible chemical agents. FluoroClear cartridges may not be autoclaved or steam sterilized.

Typical Applications
Wet-etch & cleaning chemicals:
Sulfuric Acid
Hydrofluoric Acid
Phosphoric Acid
Nitrile Acid
Photoresist
Ozonated Process Streams

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

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.

Ordering Information

<table>
<thead>
<tr>
<th>GFL</th>
<th>Pore Size (µm)</th>
<th>A</th>
<th>Length</th>
<th>C</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>-</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td>10 (25.4 cm)</td>
<td>2</td>
<td>DOE Flat Gasket</td>
<td>T</td>
<td>Teflon® Encapsulated Viton</td>
<td>E = Flushed &amp; Dried</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.1</td>
<td>20 (50.8 cm)</td>
<td>3</td>
<td>222 w/ Flat Cap</td>
<td>F</td>
<td>Wet-Packed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.2</td>
<td>30 (76.2 cm)</td>
<td>4</td>
<td>222 w/ Flat Cap</td>
<td>F</td>
<td>Wet-Packed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.4</td>
<td>40 (101.6 cm)</td>
<td>6</td>
<td>226 w/ Flat Cap</td>
<td>F</td>
<td>Wet-Packed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>7</td>
<td>226 w/ Flat Cap</td>
<td>F</td>
<td>Wet-Packed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Filter Data Sheet

HF Series High Flow Cartridges

HF Series High Flow Cartridges address your need for absolute rated filter cartridges in high flow rate applications. HF Series Cartridges are designed for use as a direct replacement to the Pall Ultipleat® and 3M 740 series elements. Filtration efficiencies exceed 99%.

Construction Materials
- Filtration Media: Polypropylene and Microglass
- Support Media: Thermally-bonded Polyolefin
- End Caps: Polypropylene
- Center Core: Polypropylene
- Outer Support Cage: Polypropylene
- O-Rings/Gaskets: Buna, Viton, EPDM, Silicone

Dimensions
- Length:
  - HF 20, 40, 60 inches
  - HF3 39 inches
- Outside Diameter: 6.25 inches

Maximum Recommended Operating Conditions
- Differential Pressure: 35 PSI
- Operating Temperature: 210ºF (93ºC)

Typical Applications
- Paints and Coatings
- Particle Classification
- Food and Beverage
- Resins
- Food/Oil Pre-filtration
- High-purity Inks
- Particulate Classification

GPF Listed Materials
Manufactured from materials which are listed in Title 21 of the U.S. Code of Federal Regulations.

Ordering Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Pore Size</th>
<th>Length</th>
<th>O-Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF</td>
<td>Polypropylene</td>
<td>1 micron</td>
<td>20 = HF (50.8 cm)</td>
<td>B = Buna</td>
</tr>
<tr>
<td></td>
<td>2 micron</td>
<td>40 = HF (101.6 cm)</td>
<td>E = EPDM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 micron</td>
<td>60 = HF (152.4 cm)</td>
<td>S = Silicone</td>
<td></td>
</tr>
<tr>
<td>Retrosfit Pall HF</td>
<td>Microglass</td>
<td>1 micron</td>
<td>20 = HF (50.8 cm)</td>
<td>B = Buna</td>
</tr>
<tr>
<td></td>
<td>2 micron</td>
<td>40 = HF (101.6 cm)</td>
<td>E = EPDM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 micron</td>
<td>60 = HF (152.4 cm)</td>
<td>S = Silicone</td>
<td></td>
</tr>
<tr>
<td>HF3</td>
<td>Microglass</td>
<td>1 micron</td>
<td>20 = HF (50.8 cm)</td>
<td>B = Buna</td>
</tr>
<tr>
<td></td>
<td>2 micron</td>
<td>40 = HF (101.6 cm)</td>
<td>E = EPDM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 micron</td>
<td>60 = HF (152.4 cm)</td>
<td>S = Silicone</td>
<td></td>
</tr>
<tr>
<td>Retrosfit 3M 740</td>
<td>Polypropylene</td>
<td>1 micron</td>
<td>20 = HF (50.8 cm)</td>
<td>B = Buna</td>
</tr>
<tr>
<td></td>
<td>2 micron</td>
<td>40 = HF (101.6 cm)</td>
<td>E = EPDM</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 micron</td>
<td>60 = HF (152.4 cm)</td>
<td>S = Silicone</td>
<td></td>
</tr>
</tbody>
</table>

Filter Data Sheet

Bi-Component Filter Cartridge - GPB

Thermally-bonded polyolefin fibers are used in the construction of the Bi-Component Filter Cartridges. The unique fiber-to-fiber bond forms a very stable porosity. The patented construction process of these Bi-Component Filter Cartridges provides consistent filtration and eliminates pore size variability and media migration.

The rigid construction also provides a three dimensional fiber network that offers a high tolerance to differential pressures. This unique feature also prevents changes in fiber matrix throughout the life of the filter. This delivers consistently precise filtration and ensures against contaminant unload ing.

Purity
GPB series filter cartridges are free of additives, wetting agents, binders, and silicone.

Ordering Information

<table>
<thead>
<tr>
<th>GPB</th>
<th>Micron Rating</th>
<th>-</th>
<th>Length</th>
<th>-</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene</td>
<td>1 (Cuno “A”)</td>
<td>9.75 (24.76 cm)</td>
<td>2 = DOE Flat Gasket</td>
<td>B = Buna</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 (Cuno “B”)</td>
<td>10 (25.4 cm)</td>
<td>3 = DOE Flat Gasket</td>
<td>S = EPDM</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 (Cuno “C”)</td>
<td>19.5 (49.5 cm)</td>
<td>4 = 222 w/Flat Cap</td>
<td>S = Silicone</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 (Cuno “D”)</td>
<td>20 (50.8 cm)</td>
<td>5 = 222 w/Flat Cap</td>
<td>V = Viton</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>25 (Cuno “E”)</td>
<td>29.25 (74.29 cm)</td>
<td>6 = 226 w/Flat Cap</td>
<td>P = Polyfoam</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 (Cuno “F”)</td>
<td>39 (99.1 cm)</td>
<td>7 = 226 w/Flat Cap</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>75 (Cuno “G”)</td>
<td>39 (99.1 cm)</td>
<td>8 = 226 w/Flat Cap</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100 (Cuno “H”)</td>
<td>40 (101.6 cm)</td>
<td>9 = DOE w/Flat Cap</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>150 (Cuno “I”)</td>
<td>50 (127 cm)</td>
<td>10 = DOE w/Flat Cap</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>200 (Cuno “J”)</td>
<td>60 (152.4 cm)</td>
<td>11 = DOE w/Flat Cap</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>350 (Cuno “K”)</td>
<td>75 (190.5 cm)</td>
<td>12 = DOE w/Flat Cap</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Filter Data Sheet

Water Grade Polypropylene Meltblown Cartridge - GWTB

- Unique & proprietary process delivers efficiency, life and economy
- Excellent compatibility with a wide range of chemicals
- Graded density pore structure enhances dirt holding capacity
- Easy cartridge incineration and disposal
- All polypropylene construction
- All end configurations available (glued or thermally-bonded)

**Liquid Flow Specifications**

* Based on 10” High Performance Grade

**Construction Materials**
- Filtration Media: Polypropylene
- End Caps: Polypropylene
- O-Rings/Gaskets: Silicone, Buna, Polyfoam, EPDM, Viton

**Performance Specifications**

- **Micron Ratings:** 1, 3, 5, 10, 20, 25, 30, 50, 75, 100
- **Efficiencies:** Water Grade = 80%
- **High Performance Grade:** 90%

**FDA Listed Materials**
- Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.
- All polypropylene construction
- All end configurations available (glued or thermally-bonded)

**Ordering Information**

<table>
<thead>
<tr>
<th>GWTB</th>
<th>Micron Rating</th>
<th>A</th>
<th>Length</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
<th>End Caps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Grade</td>
<td>1</td>
<td>A = 2.5” OD</td>
<td>9.75 (24.76 cm)</td>
<td>2 = DOE Flat Gasket</td>
<td>B = Buna</td>
<td>Blank = Glued</td>
</tr>
<tr>
<td>GCTB</td>
<td>3</td>
<td></td>
<td>9.875 (25.08 cm)</td>
<td>3 = 222 w/Fin</td>
<td>E = EPDM</td>
<td>TB = Thermally-Bonded</td>
</tr>
<tr>
<td>High Performance Grade</td>
<td>5</td>
<td></td>
<td>10 (25.4 cm)</td>
<td>4 = 222 w/Flat Cap</td>
<td>S = Silicone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
<td>19.5 (49.53 cm)</td>
<td>5 = 222 w/Spring</td>
<td>V = Viton</td>
<td></td>
</tr>
<tr>
<td></td>
<td>20</td>
<td></td>
<td>20 (50.8 cm)</td>
<td>6 = 226 w/Flat Cap</td>
<td>P = Polyfoam (Gaskets)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30</td>
<td></td>
<td>29.25 (74.29 cm)</td>
<td>7 = 226 w/Fin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50</td>
<td></td>
<td>29.5 (74.93 cm)</td>
<td>8 = 226 w/Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>75</td>
<td></td>
<td>30 (76.2 cm)</td>
<td>9 = SOE w/Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100</td>
<td></td>
<td>39 (99.1 cm)</td>
<td>10 = DOE w/Core Extender</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>40 (101.6 cm)</td>
<td>20 = SOE PP Ext. w/Spring</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Filter Data Sheet**

Water Grade BB - Size Polypropylene Meltblown Cartridge - GWTB

- Unique & production process delivers efficiency, life and economy
- Excellent compatibility with a wide range of chemicals
- Graded density pore structure enhances dirt holding capacity
- Easy cartridge incineration and disposal
- All polypropylene construction

**Dimensions (Nominal)**

- **Micron Ratings:** 1, 3, 5, 10, 20, 25, 30, 50, 75, 100
- **Efficiencies:** 80%

**FDA Listed Materials**
- Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

**Ordering Information**

<table>
<thead>
<tr>
<th>GWTB</th>
<th>Micron Rating</th>
<th>BB</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Grade</td>
<td>1</td>
<td>3</td>
<td>BB = 4.5” OD</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>75</td>
</tr>
</tbody>
</table>

**Rev. 12/9/11**
Global Filter

Filter Data Sheet

Absolute Grade Polypropylene Meltblown Cartridge - GATB

- Controlled fiber diameter and density maximizes removal efficiency and ensures consistent performance
- Excellent compatibility with a wide range of chemicals
- Easy cartridge incineration and disposal
- All polypropylene construction
- All end configurations available (glued or thermally-bonded)
- Resists contaminant unloading, even at elevated differential pressures
- Grooved exterior increases surface area
- Consistent performance and efficiency and ensures proper flow specifications

Construction Materials
- Filtration Media: Polyester & acrylic fibers with phenolic resin
- O-Rings/Gaskets: Silicone, Buna, Polyfoam, EPDM, Viton

Performance Specifications
- Micron Ratings: 1, 3, 5, 10, 20, 30, 50, 75, 100
- Efficiencies: 1 Micron: 95% 3 Micron: 99%
- Length: 9.75 to 40 inches (24.8 to 102 cm)
- Outside Diameter: 2.5 inches (6.4 cm)
- Inside Diameter: 1 inch (2.6 cm)

FDA Listed Materials
- Manufactured from materials which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Maximum Recommended Operating Conditions
- Flow Rate: 5-17 GPM/108 equivalent length (aerodynamic fluid)
- Temperature: -10°C to 140°F (-14°C to 60°C)
- Differential Pressure: 20 PSID (138 kPa)
- Fluid Compatibility: Water, many organic solvents, many acids, and bases.
- End Caps: None

Dimensions
- Outside Diameter: 2.00 inches (5.1 cm)
- Inside Diameter: 1.50 inches (3.8 cm)
- Length: 29.25 (74.29 cm)
- Depth: 40 (101.6 cm)

Filter Data Sheet

Resin-Bonded Cartridge

- The unique design of GRB Series Resin-Bonded Cartridges offers multi-stage filtration; delivering superior removal efficiencies and loading capacities in viscous liquid applications. Spiral outer wrap and long acrylic fibers minimize fiber-shedding while increasing surface area as well as minimizing loose debris caused by machine grooved competitive products. The continuous length design eliminates potential-by-pass and void spaces created by glued increments. Full 2.5 inch diameter construction offers superior depth when compared to some smaller diameter competitive products.

Features
- Micron ratings from 2 to 150
- High dirt holding capacity
- Broad chemical compatibility
- Rigid construction is ideal for high viscosity applications

Filtration Media: Polyester & acrylic fibers with phenolic resin

Core: None

End Caps: None

Dimensions
- Differential pressure: -10 to 250 PSI (-0.7 to 17.2 bar)
- Flow Rate: 5-17 GPM/108 equivalent length (aqueous fluid)

Maximum Recommended Operating Conditions
- Outside Diameter: 2.56 inches (6.5cm)
- Inside Diameter: 1.125 inches (2.88cm)
- Lengths: 9.75 to 40 inches

Ordering Information

GATB Micron Rating A Length - End Cap Code O-Rings/Gaskets - End Caps
Absolute Grade 1 9.75 (24.76 cm) 2 = DOE Flat Gasket B = Buna Blank = Glued
3 9.875 (25.08 cm) 3 = 222 w/Fin E = EPDM TB = Thermally-Bonded
5 10 (25.4 cm) 4 = 222 w/Fin Cap S = Silicone
10 19.5 (49.53 cm) 5 = 222 w/SPRING V = Viton
20 20 (50.8 cm) 6 = 226 w/Flat Cap P = Polyfoam (Gaskets)
30 29.25 (74.29 cm) 7 = 226 w/Fin
50 29.5 (74.93 cm) 8 = 226 w/SPRING
75 30 (76.2 cm) 9 = SOE w/SPRING
100 39 (99.1 cm) 10 = DOE w/Core Extender
125 39 (99.06 cm)
150 40 (101.6 cm) 20 = SOE PF Ext. w/SPRING

Ordering Information

GRB Micron Rating N Length - End Cap Code
2 9.75 (24.76 cm) 9 = Stainless steel core ext.
5 10 (25.4 cm) 50 = SOE w/poly spring
10 19.5 (49.53 cm) 10 = DOE w/poly core ext.
25 20 (50.8 cm)
50 29.25 (74.27 cm)
75 30 (76.2 cm)
125 39 (99.06 cm)
150 40 (101.6 cm)

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Filter Data Sheet

Wound Depth Cartridge

- Available in a wide variety of lengths and micron ratings from 9.75 to 50 inches and 0.5-400 µm
- Medias to fit all applications including: polypropylene, bleached cotton, FDA bleached cotton, natural cotton, polyester, nylon and glass
- Core materials include: polypropylene, bleached cotton, natural cotton, tin and glass
- Performance-enhancing end-configurations available to fit every process requirement

Construction Materials

Filtration Media: See Table
Core: Polypropylene, EPDM, Viton, Teledyne
O-Rings/Gaskets: Polyfoam, EPDM, Viton, Teflon®

Typical Applications

Chemicals
Consumer Products
Food and Beverage
Oils
Paints
Inks
Petro Chemicals

Ordering Information

<table>
<thead>
<tr>
<th>G</th>
<th>Media</th>
<th>Micron Rating</th>
<th>Diameter</th>
<th>Length</th>
<th>Core</th>
<th>End Cap Code</th>
<th>O-Rings/Gaskets</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Polypropylene</td>
<td>0.5</td>
<td>1</td>
<td>A = 2.5</td>
<td>9.75 (24.76 cm)</td>
<td>P = Polypropylene</td>
<td>2 = DOE Flat Gasket</td>
</tr>
<tr>
<td>C</td>
<td>Bleached Cotton</td>
<td>3</td>
<td>5</td>
<td>B = 2.0</td>
<td>9.875 (25.08 cm)</td>
<td>A = 304 SS</td>
<td>3 = 222 w/Fin</td>
</tr>
<tr>
<td>CC</td>
<td>Bleached Cotton FDA</td>
<td>10</td>
<td>20</td>
<td>BB = 4.5</td>
<td>10 (25.4 cm)</td>
<td>S = 316 SS</td>
<td>4 = 222 w/Flat Cap</td>
</tr>
<tr>
<td>CN</td>
<td>Natural Cotton</td>
<td>25</td>
<td>30</td>
<td>19.5 (49.53 cm)</td>
<td>T = Tin</td>
<td>5 = 222 w/Spring</td>
<td>V = Viton</td>
</tr>
<tr>
<td>PE</td>
<td>Polyester</td>
<td>50</td>
<td>75</td>
<td>20 (50.8 cm)</td>
<td>FG = Glass</td>
<td>6 = 226 w/ Flat Cap</td>
<td>P = Polyfoam</td>
</tr>
<tr>
<td>N</td>
<td>Nylon</td>
<td>100</td>
<td>200</td>
<td>29.5 (74.93 cm)</td>
<td>T = 77˚F</td>
<td>7 = 226 w/Fin</td>
<td>T = Teflon®</td>
</tr>
<tr>
<td>G</td>
<td>Glass</td>
<td>250</td>
<td>400</td>
<td>30 (76.2 cm)</td>
<td>8 = 226 w/ spring</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Maximum Recommended Operating Conditions

Differential Pressure: 25 PSI
Temperature: dependent upon materials of construction

Dimensions

Length: 9.75 to 50 inches (24.8 to 125 cm)
Outside Diameter: 2.5 inches (6.4 cm)
Inside Diameter: 1 inch (2.7 cm)

Pressure Drop vs. Flow Rate

Flow (GPM)

Water at Ambient

Filter Data Sheet

G.E.M. Reverse Osmosis Membrane

Global Economy Membrane

G.E.M. Reverse Osmosis Membranes provide the high salt rejection and flow rates typically available on composite membranes while providing superior value. This gives the membrane user an edge by providing reduced costs for the operation of a reverse osmosis system. The pre-filtration program offered by Global Filter, in conjunction with the G.E.M. elements, may eliminate the need for costly membrane cleanings. These elements are manufactured utilizing an ISO 9001:2000 Certified Quality Management System.

Application Data*

| Max. Applied Pressure | 600 PSI (4.16 MPa) |
| Max. Chlornite Concentration | <0.1 PPM |
| Max. Operating Temperature | 113°F (45°C) |
| Feedwater pH Range | 3.0 - 10.0 |
| Max. Feedwater Turbidity | <1.0 NTU |
| Max. Feedwater SDI (15 mins) | <5.0 |
| Max. Feed Flow | 75 GPM (17.0 m3/h) |
| Max. Ratio of Concentrate to Permeate Flow | 5:1 |
| Max. Pressure Drop for Each Element | <10 PSI |

* The limitations shown here are for general use. The values may be more conservative for specific projects to ensure the best performance and longest life of the membrane.

Performance

Permeate Flow: 8,900 to 14,000 GPD
Salt Rejection Minimum: 98%

Test Conditions

The stated performance is initial (data taken after 30 minutes of operation), based on the following conditions:

- NaCl Test Solution: 1500 PPM
- Applied Pressure: 225 PSI (1.55 MPa)
- Operating Temperature: 77°F (25°C)
- Permeate Recovery: 15%
- pH Range: 6.3 - 7.0

Type

Configuration: Spiral Wound
Membrane Polymer: Composite Polyamide

Ordering Information

GEM | Diameter (Nom.) | Length | RO
--- | --- | --- | ---
8 | 40 |

* Weight = 36 lbs (16.4kg)
Polypropylene Bag Ring Styles

- 7" Diameter P1P & P2P
- 4" Diameter P1P, P4P, P5P
- 8" Diameter RP1P & RP2P
- X01 Flange
- P1SS & P2SS
- P3SS & P4SS

Filter Data Sheet
Standard Felt Liquid Filter Bags

- Micron ratings from 1 to 200
- All industry - standard & custom sizes available
- Broad chemical compatibility
- High flow/low pressure drop
- Sewn or fully-welded construction
- Handles standard on all bags
- Choice of steel or molded plastic snap-seal rings
- Temperature ratings to 275°F (PE w/S, SS, or V-seal ring) and 425°F (HT w/S or SS ring)

Felt Bag Materials
Constructed using 100% synthetic fibers in polypropylene, polyester and Nomex®. The proper combination of fiber diameters, weights and thicknesses result in economical depth filter media. Polypropylene & polyester bags are supplied with a singed or glazed finish to reduce fiber migration.

- Polypropylene and Polyester materials meet FDA regulations for food contact under CFR21, Section 177.1520
- Silicone-free construction
- High dirt holding capacity
- Ability to remove both solid and gelatinous particles
- Low cost
- Glazed/singed finish on polyester & polypropylene reduces

Welded Construction
Fully-welded bags are available in glazed polypropylene and polyester felt for #1 & #2 sizes with V-seal molded plastic rings.

- No needle holes, thus increasing efficiencies by preventing by-pass
- Elimination of threads further reduces fiber-shedding

Felt Bag Styles
S-ring bags have a galvanized steel ring (stainless steel optional) sewn into the top of the bag. They are supplied with sewn seams standard.

V-ring bags have a specially-designed, high-temperature snap-seal ring sewn into the top of the bag. They are supplied with sewn seams standard (fully-welded seams available upon request).

Felt Materials | Micron Ratings
--- | ---
Polyester | 1 2 5 10 20 25 50 100 150 200
Polypropylene | 1 2 5 10 20 25 50 100 150 200
Nomex® | 1 2 5 10 20 25 50 100 150 200

Ordering Information

<table>
<thead>
<tr>
<th>G</th>
<th>Media Type</th>
<th>Micron Rating</th>
<th>Cover/Jacket</th>
<th>Bag Dimensions</th>
<th>Ring Type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>Polyester</td>
<td>1-200</td>
<td>P = Plain (no cover)</td>
<td>7 0.6 16.5</td>
<td>5S = Stainless steel</td>
<td>WE = Fully-welded (PE and PP only)</td>
</tr>
<tr>
<td>PO</td>
<td>Polypropylene</td>
<td>P = Polypropylene</td>
<td>Multifilament Meshes</td>
<td>7 0.6 32.0</td>
<td>V = High-temp plastic snap-seal</td>
<td>PL = No outer finish</td>
</tr>
<tr>
<td>HT</td>
<td>Nomex®</td>
<td></td>
<td></td>
<td>4.12 8.0</td>
<td>C = Commercial-style band (C1 &amp; C2 only)</td>
<td>RC = Res. collar (S &amp; SS only)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4.12 14.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.5 15.0</td>
<td></td>
<td>A = Automotive Seam</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.5 20.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.5 31.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.31 16.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7.31 32.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8.0 30.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Filter Data Sheet

Standard Mesh Liquid Filter Bags

- Micron ratings from 1 to 1500
- All industry-standard and custom sizes available
- High flow/low pressure drop media
- Surface retention filtration
- Wide chemical compatibility
- Seven construction options
- Handles standard on all bags
- Choice of steel or molded plastic snap seal rings
- Economical removal of non-deformable contaminants
- Non-fiber shedding
- High removal efficiency
- Temperature ratings to 400°F (204°C)
- Meet FDA regulations for contact under Title 21, Section 177.1520
- Silicone-free construction

Mesh Bag Materials

Multifilament Mesh is woven from single-fiber threads. The openings are square and uniform, providing excellent strength and some are cleanable.

Mesh Bag Styles

- S-ring bags have a galvanized steel ring (stainless steel optional) sewn into the top of the bag. They are supplied with seven seams standard.
- V-ring bags have a specially designed, high-temperature snap-seal ring sewn into the top of the bag. They are supplied with seven seams standard.

Ordering Information

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Micron Rating</th>
<th>Cover/Jacket</th>
<th>Bag Dimensions</th>
<th>Ring Type</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMO = Nylon Monofilament</td>
<td>1-1500</td>
<td>P = Plain (No Cover)</td>
<td>Bag Dimensions</td>
<td>Ring Type</td>
<td>Options</td>
</tr>
<tr>
<td>PEMU = Polyester Multifilament</td>
<td>1 = 7.06 16.5</td>
<td>S = Standard steel ring</td>
<td>GR = Rev. collar (S &amp; SS only)</td>
<td>C = Comm. type snap seal band</td>
<td>A = Automotive Seam</td>
</tr>
<tr>
<td>NNU = Nylon Multifilament</td>
<td>1 = 7.06 32.0</td>
<td>S = Standard steel ring</td>
<td>EB = Edge binding</td>
<td>D = Draw-string</td>
<td></td>
</tr>
<tr>
<td>3 = 4.12 8.0</td>
<td>C = Draw-string</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 = 4.12 14.0</td>
<td>A = Automotive Seam</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 = 5.5 15.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 = 5.5 20.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9 = 5.5 31.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C1 = 7.31 16.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C2 = 7.31 32.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 = 8.0 30.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Filter Data Sheet

High Efficiency Microfiber Liquid Filter Bags

- Micron ratings from 1.0 to 50.0
- All industry-standard and custom sizes available
- Choice of steel or molded plastic snap seal rings
- Broad chemical compatibility
- Excellent oil-absorbing capabilities (POMF)
- Handles standard on all bags
- Efficiency ratings to 95.0%

High Efficiency Bag Materials

Microfiber materials provide high efficiencies at low micron ratings. Multi-layer technology results in true graded - density filtration, delivering significantly increased loading capacities and lower overall filtration costs.

High Efficiency Bag Styles

- Standard ring bags have a galvanized steel ring (stainless steel optional) sewn in the top of the bag.
- V-ring bags have a molded plastic ring sewn to the filter bag.

Ordering Information

<table>
<thead>
<tr>
<th>Media Type</th>
<th>Micron Rating</th>
<th>Cover/Jacket</th>
<th>Bag Dimensions</th>
<th>Ring Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>POMF = Polypropylene</td>
<td>1A</td>
<td>P = Standard</td>
<td>Bag Dimensions</td>
<td>S = Standard steel ring</td>
</tr>
<tr>
<td>PEMF = Polyester</td>
<td>2A</td>
<td></td>
<td></td>
<td>S = Stainless steel ring</td>
</tr>
<tr>
<td></td>
<td>5A</td>
<td></td>
<td></td>
<td>V = High - temp plastic snap seal</td>
</tr>
<tr>
<td></td>
<td>10A</td>
<td></td>
<td></td>
<td>C = Commercial - style band (C1 &amp; C2 only)</td>
</tr>
<tr>
<td></td>
<td>25A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>75A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>100A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

POMF = Polypropylene

PEMF = Polyester

High Efficiency Materials (95.0%)

- Micron Ratings
- Polypropylene
- Polyester
- Stainless steel ring

Global Filter LLC • 7201 Mt. Vernon Rd. SE • Cedar Rapids, IA 52403
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Vessel Data Sheet

Single-Cartridge Liquid Vessels

GTCH Series

GTCH1 Series Cartridge Vessels are designed with a single compression ring which allows for easy-access and use in a wide variety of applications. The vessels are constructed of 304 or 316 stainless steel and are rated at 300 PSI. They feature dual seal o-rings to ensure against leaks. The GTCH1 is available with 3/4” and 1” FNPT connections to accept DOE, 222, or 226 end cartridges in 10, 20 & 30 inch lengths.

Features
- Inline design for easy installation
- Single compression ring seal for easy change-out (wrench included)
- 304 or 316 stainless steel construction (electropolished finish)
- 300 PSI pressure rating
- Offered in double open-end, 222/FLAT, or 226/FLAT configurations
- Heavy-duty cast head with mounting bracket
- Dual o-ring closure seal (silicone standard)
- 1/8” NPT vent
- 1/8” NPT drain
- Heavy-duty cast head

Inlet/Outlet
- 10 inch..............................0.75 inch NPT
- 20 inch..............................1.0 inch NPT
- 30 inch..............................1.0 inch NPT

Ordering Information

<table>
<thead>
<tr>
<th>GTCH</th>
<th>Length</th>
<th>Inlet/Outlet Size</th>
<th>End Configuration</th>
<th>Material</th>
<th>Pressure Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10”</td>
<td>3/4” FNPT</td>
<td>DOE</td>
<td>304 SS</td>
<td>300 PSI</td>
</tr>
<tr>
<td>2</td>
<td>20”</td>
<td>1” FNPT</td>
<td>222/FLAT</td>
<td>316 SS</td>
<td>300 PSI</td>
</tr>
<tr>
<td>3</td>
<td>30”</td>
<td></td>
<td>226/FLAT</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Accepts a 9.875”, DOE Cartridge

Vessel Data Sheet

Multi-Cartridge Liquid Vessels

GTCH Series

GTCH Series Multi-round Cartridge Vessels are designed for industrial and high purity applications. Vessels are constructed of 304 or 316 stainless steel and accept DOE, 222/FLAT, and 226/FIN end cartridges in 10, 20, 30 & 40 inch lengths.

Features
- 304 & 316 stainless steel construction
- 150 PSI pressure rating standard
- Single o-ring design (Buna N standard)
- Easy-access eye-nuts/swing bolt closure
- Universal seat cups and alternate compression/hold-down plates allow vessels to accept DOE, 222/FLAT or 226/FIN cartridges
- Heavy-duty welded angle mounting/support legs
- Bearing-assisted hand-wheel closure davit (GTCH12 & larger)

Options
- ASME Code Stamp
- Electropolish
- Sanitary Porting
- Alternate Seal Materials

Ordering Information

<table>
<thead>
<tr>
<th>GTCH</th>
<th># of Cartridges</th>
<th>Length</th>
<th>Inlet/Outlet Size</th>
<th>End Configuration</th>
<th>Material</th>
<th>Pressure Rating</th>
<th>Surface Finish</th>
<th>ASME Code Stamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3</td>
<td>1</td>
<td>1”</td>
<td>DOE</td>
<td>304 SS</td>
<td>15 = 150 PSI @ 250F</td>
<td>GB = Glass bead</td>
<td>Blank = None</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>2</td>
<td>2”</td>
<td>RF Flange</td>
<td>316 SS</td>
<td></td>
<td>EP = Electropolish</td>
<td>U = ASME</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>3</td>
<td>3”</td>
<td>TC Sanitary</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>12</td>
<td>4</td>
<td>4”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>22</td>
<td>6</td>
<td>6”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>36</td>
<td>8</td>
<td>8”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>51</td>
<td>10</td>
<td>10”</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Vessel Data Sheet

Multi-Cartridge Band-Clamp Liquid Vessels

**GTCHB Series** Multi Cartridge Vessels are designed for industrial and commercial applications. Vessels are constructed of 304 or 316 stainless steel and accept DOE, 222/FLAT, and 222/FIN end cartridges in 10, 20, 30 & 40 inch lengths.

**Features**
- Heavy-duty welded mounting/support legs
- Easy-access heavy-duty band-clamp closure
- Single o-ring design (Buna-N standard)
- Universal seal cups and compression plates allow vessels to accept DOE, 222/FLAT, or 222/FIN cartridges
- Poly-coat finish (exterior only)
- 316 stainless steel cap/spring assemblies and v-post
- 150 PSI pressure rating

**Options**
- Sanitary Porting
- Alternate Seal Materials

---

**GBFV Series Bag Vessels** are designed to meet and/or exceed nearly all application requirements. The V-ring design provides a positive snap-fit to ensure against by-pass and deliver clean effluent.

**Features**
- NPT or RF Flanged inlet/outlet connections
- Stainless steel perforated support baskets (3/4" perf. standard)
- Adjustable tripod mounting/support leg assemblies
- Easy-access eye-nut/swing bolt closures with handle
- 304 & 316 stainless steel construction
- Uni-style (side & bottom outlet) offers increased piping flexibility
- Single o-ring seal (Buna standard)
- 150 PSI pressure rating standard
- Snap-fit V-ring bag seal design

**Options**
- ASME Code Stamp
- Electropolish
- Sanitary porting
- Mesh-lined baskets
- Other seal materials

**Flow Rate**

<table>
<thead>
<tr>
<th>Model</th>
<th>Bag Size</th>
<th>Basket Depth</th>
<th>EFA (ft²)</th>
<th>Max Flow Rate (GPM)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBFB10</td>
<td>4</td>
<td>15</td>
<td>2.0</td>
<td>90</td>
</tr>
<tr>
<td>GBFB30</td>
<td>2</td>
<td>30</td>
<td>4.4</td>
<td>200</td>
</tr>
</tbody>
</table>

**Ordering Information**

<table>
<thead>
<tr>
<th>GBFB</th>
<th>Basket Depth</th>
<th>Inlet/Outlet Size</th>
<th>Inlet/Outlet Type</th>
<th>Outlet</th>
<th>Material</th>
<th>Pressure Rating</th>
<th>Surface Finish</th>
<th>ASME Code Stamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>#1 Size</td>
<td>2 = 2&quot;</td>
<td>N = FNPT</td>
<td>1 = Bottom outlet</td>
<td>4 = 304 SS</td>
<td>15 = 150 PSI @ 250°F</td>
<td>Glass bead</td>
<td>Blank = None</td>
</tr>
<tr>
<td>30</td>
<td>#2 Size</td>
<td>3 = 3&quot;</td>
<td>F = RF Flange</td>
<td>2 = Opposite outlet</td>
<td>3 = 316 SS</td>
<td></td>
<td>Electropolish</td>
<td>U = ASME</td>
</tr>
</tbody>
</table>

* Max flow rate is the maximum flow rate recommended through the vessel without a filter bag installed (using water). Any increase in viscosity and/or the installation of filter bags will reduce these flow rates significantly. Please refer to the sizing chart or consult with Global Filter when sizing these vessels.

---
**GBFE4 Series Bag Vessels**

offer an economical solution to your low-flow bag filtration requirements. These vessels offer a cost-effective means of removing solid contaminants from a process liquid stream. Vessels are designed to a 300 PSIG rating with a swing bolt closure. Vessels accept (1) #4 - size filter bag

**Features**

- 304 stainless steel construction with a glass bead finish
- 300 PSIG rating
- Buna-N seal
- Easy-access swing bolt closure
- 1” NPT uni-style (side & bottom outlet) offers increased piping flexibility
- Stainless steel hold down spring
- 1/2” NPT vent & gauge ports
- Adjustable stainless steel tripod mounting/support leg assembly
- Stainless steel perforated support basket (9/64” perf. Standard)

**Options**

- Alternate Seal Materials

**Flow Rate**

<table>
<thead>
<tr>
<th>Model</th>
<th>Bag Size</th>
<th>Basket Depth</th>
<th>EFA (ft²)</th>
<th>Max Flow Rate (GPM)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBFE412</td>
<td>4</td>
<td>12</td>
<td>1.0</td>
<td>50</td>
</tr>
</tbody>
</table>

*Max flow rate is the maximum flow rate recommended through the vessel without a filter bag installed (using water). Any increase in viscosity and/or the installation of filter bags will reduce these flow rates significantly. Please refer to the sizing chart or consult with Global Filter when sizing these vessels.

**Ordering Information**

<table>
<thead>
<tr>
<th>GBFE4</th>
<th>Basket Depth</th>
<th>Inlet/Outlet Size</th>
<th>Outlet Configuration</th>
<th>Material</th>
<th>Pressure Rating</th>
<th>Surface Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 = 44-Size</td>
<td>1 = 1” NPT</td>
<td>3 = Bottom &amp; Opposite Side/Outlet</td>
<td>4 = 304 SS</td>
<td>30 = 300 PSI @ 250°F</td>
<td>GB = Glass Bead Polish</td>
<td></td>
</tr>
</tbody>
</table>

**GBFV82 Series Twin-Capacity Bag Vessels**

Vessels are designed to meet and/or exceed nearly all application requirements. The V-ring design provides a positive snap-fit to ensure against by-pass and deliver clean effluent. Vessels offer the flow and loading capacity of a multi-bag vessel at a more economical cost.

**Features**

- 304 & 316 stainless steel construction
- 150 PSI pressure rating standard
- Two identical GBFV830 vessels working in tandem
- Single o-ring seal (Buna standard)
- Two easy-access eye-nut/swing bolt closures with single handle
- Snap-fit V-ring bag seal design
- RF Flanged inlet/outlet connections
  (same side and opposite side options available)
- Adjustable tripod mounting/support leg assemblies
- Stainless steel perforated support baskets (9/64” perf. standard)
- High flow rates and loading capacity at low pressure drops

**Options**

- ASME Code Stamp
- Electropolish
- Mesh-lined Baskets
- Other Seal Materials
- Alternate Seal Materials

**Flow Rate**

<table>
<thead>
<tr>
<th>Model</th>
<th>Bag Size</th>
<th>Basket Depth</th>
<th>EFA (ft²)</th>
<th>Max Flow Rate (GPM)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBFV8230</td>
<td>2</td>
<td>30</td>
<td>8.8</td>
<td>400</td>
</tr>
</tbody>
</table>

*Max flow rate is the maximum flow rate recommended through the vessel without a filter bag installed (using water). Any increase in viscosity and/or the installation of filter bags will reduce these flow rates significantly. Please refer to the sizing chart or consult with Global Filter when sizing these vessels.

**Ordering Information**

<table>
<thead>
<tr>
<th>GBFV82</th>
<th>Basket Depth</th>
<th>Inlet/Outlet Size</th>
<th>Inlet/Outlet Type</th>
<th>Outlet</th>
<th>Material</th>
<th>Pressure Rating</th>
<th>Surface Finish</th>
<th>ASME Code Stamp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 = 42-Size</td>
<td>3 = 3”</td>
<td>F = RF Flange</td>
<td>2 = Opposite side outlet</td>
<td>4 = 304 SS</td>
<td>315 PS</td>
<td>GB = Glass bead polish</td>
<td>EP = Electropolish</td>
<td>U = ASME</td>
</tr>
<tr>
<td>4 = 4”</td>
<td>Same side outlet</td>
<td>4 = 316 SS</td>
<td>EP = Electropolish</td>
<td>U = ASME</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Global Filter LLC • 7201 M. Vernon Rd. SE • Cedar Rapids, IA 52403
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Phone: 319-743-0110 • Fax: 319-743-0220 • Toll free: 877-603-1003 • www.GlobalFilterCorp.com
GMBV Series Multi-Bag Vessels are designed for high flow and/or high contaminant load applications where clean effluent is critical. The V-ring design provides a positive snap-fit to ensure against by-pass.

Features
- Heavy-duty welded angle mounting/support legs
- RF Flanged “inline” inlet/outlet connections
- Bearing-assisted hand-wheel closure davit
- Permanent compression/hold-down plate
- Stainless steel perforated support baskets (9/64” perf. standard)
- Easy-access eye-nut/swing bolt closures
- Stainless steel construction
- Snap-fit V-ring bag seal design
- Single o-ring seal

Options
- ASME Code Stamp
- Mesh-lined Baskets
- Other Seal Materials
- Alternate Seal Materials

Flow Rate

<table>
<thead>
<tr>
<th>Model</th>
<th>Bag Size</th>
<th>Basket Depth</th>
<th>EFA ft²</th>
<th>Max Flow Rate (GPM)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMBV-0430</td>
<td>8</td>
<td>30”</td>
<td>17.6</td>
<td>600</td>
</tr>
<tr>
<td>GMBV-0630</td>
<td>6</td>
<td>30”</td>
<td>26.4</td>
<td>1200</td>
</tr>
<tr>
<td>GMBV-0830</td>
<td>8</td>
<td>30”</td>
<td>35.2</td>
<td>1600</td>
</tr>
<tr>
<td>GMBV-1230</td>
<td>12</td>
<td>30”</td>
<td>57.8</td>
<td>2400</td>
</tr>
</tbody>
</table>

* Max flow rate is the maximum flow rate recommended through the vessel without a filter bag installed (using water). Any increase in viscosity and/or the installation of filter bags will reduce these flow rates significantly. Please refer to the sizing chart or consult with Global Filter when sizing these vessels.

Ordering Information

<table>
<thead>
<tr>
<th>GMBV</th>
<th># of Bags/ Baskets</th>
<th>Basket Depth</th>
<th>Inlet/Outlet Size</th>
<th>Inlet/Outlet Type</th>
<th>Material</th>
<th>Pressure Rating</th>
<th>Surface Finish</th>
<th>ASME Code Stamp</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4 - 4</td>
<td>30 – 30”</td>
<td>3”</td>
<td>F = RF Flange</td>
<td>4 = 304 SS</td>
<td>15 = 150 PSI @ 250°F</td>
<td>GB = Glass bead</td>
<td>Blank = None</td>
</tr>
<tr>
<td></td>
<td>6 - 6</td>
<td>30 – 30”</td>
<td>4”</td>
<td>F = RF Flange</td>
<td>6 = 316 SS</td>
<td></td>
<td>U = ASME</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 - 8</td>
<td>30 – 30”</td>
<td>6”</td>
<td>F = RF Flange</td>
<td>8 = 8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
|      | 12 - 12            |              |                  |                  |          |                 |                | U = ASME       

The vessels you need. In stock. Ready to ship.
Keep Your Processes Flowing

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