X100 CONVERTIBLE FILTER HOUSING

FEATURES

- Positive Sealing No Fluid By-pass
- Convertible Uses Cartridges or Bags
- Polypropylene Construction Lightweight, Chemically Resistant
- Filter Elements Top Loaded No Sump Disassembly Required
- Clean Wall Design Easy Access for Manual Cleaning or In-Place Flushing
- FDA, NSF and CE Mark Meets Certification Requirements
- Positive Sealing of Both Bag and Cartridge Filters
- No Sump Disassembly Required for Filter Changes

ADDITIONAL X100 ATTRIBUTES

The X100 Convertible Filter Housing can be easily converted to accept either a filter bag or filter cartridge.

To convert the housing:
- To filter bag operation: order the X100 Plastic Basket.
- To filter cartridge operation: order the Cartridge Plate and Gasket.

Replacement parts for the X100 Convertible Filter Housing are also available through FSI.

At FSI, Service and Technology Work Together to Provide Filtration Solutions. In addition to the X100 filtering system, FSI offers a broad line of vessels, filters, custom filtration processes, adhesives and accessories to fit most filtration requirements.

FSI team members are committed to working with our customers to create effective filtration solutions. If your goals are to reduce costs and increase efficiencies in your liquid filtration processes, call FSI today. We will begin the dialogue by having a direct sales representative or sales engineer visit your facility and discuss your needs.

For more information, contact FSI at 800.348.3205. Distributed by:

FILTER SPECIALISTS, INC.

Specialists in Filtration. Clear Results.

ISO 9001 Certified

IN THE USA

800.348.3205

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No Sump Disassembly Required for Filter Changes

Because the X100 is top loaded with a specially developed threaded lid and gasket, filter elements can be changed without disassembling the sump and without additional tools for tightening. With the X100, changing the filter requires much less time than with many other types of filter housings.

Positive Sealing of Both Bag and Cartridge Filters

The X100 Convertible Filter Housing, along with the Polyloc® seal point of our X01 filter bags and the Polyseal seal point of our X20 filter cartridges, creates a positive seal and eliminates the chance of fluid by-pass.

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Positive Sealing of Both Bag and Cartridge Filters

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Filtration is a critical process in many industries, ensuring the quality and safety of products. FSI X100 Convertible Filter Housing provides an excellent, low-cost alternative to other types of filter housings. The X100 Filter Housing is convertible, allowing you to choose the filter media and construction to precisely fit your needs. Easy cleaning is another X100 trademark. FSI engineers the X100 convertible filter housing with a clean, white design, allowing the filter housing to be cleaned easily using water as a base. Any increase in fluid viscosity, or the installation of filter cartridges, will reduce the maximum GPM figures significantly. To achieve the filtration efficiency required, the suggested maximum flow rate is typically 45-50 GPM.

FSI X100 Filters

Wherever your application, FSI X100 filter housing is highly adaptable. A choice of filter elements and a complete line of accessories allow the X100 to be your best filter choice.

X10 Filter Bag

Measuring 6" in diameter by a length of 20", the X10 Filter Bag has 2 square feet of surface area (0.186 square meter), making it equivalent to a standard 8" x 8" bag. The X10 is fitted with the patented Polyloc® Ring that seals directly against the wall of the filter housing and eliminates the chance of fluid bypass.

A heavy-duty Polypropylene Reinforcer Basket supports the X10. The Polyloc® Ring sits directly against the filter collar for additional bag support.

FSI X10 Accessories

X10 Plastic Leg Stands

Lightweight molded plastic leg assemblies are designed to mount directly on the X100 Filter Housing, providing an economical means for supporting the vessel during installation and operation.

X10 Metal Leg Stands

Tripod leg stands are available in either carbon steel or 304 stainless steel for heavy-duty vessel support. Dual rubberized metal bands and bolt tightening assemblies assure a secure installation.

Cone Base Stand for the X100

The X100 Cone Base Stand comes with the option of a 2" NPT elbow or a Tripple fitting to suit different piping configurations.

DOPX100 Series Differential Pressure Gauge

FSI offers a simple, effective, and economical way to maintain optimum performance of the X100 filter system by indicating the proper time to change out filter elements. The visual indicator changes from green (clean filter media) to red to alert the user that the filter is dirty.

Available in two pressure ranges: 6-8 PSID or 15-20 PSID

Metal Wall Mounting Brackets

Mounting brackets offer maximum flexibility for application configurations. Studby construction, metal bands can be fastened along headers to accommodate piping, gauges and ladders.

Available in carbon steel or stainless steel

FSI X100 Filters

Maximum flow rates GPM is the maximum flow rate allowable through the vessel without filter cartridge installed. For clean-water or industrial water applications, the maximum flow rate is typically reached at a 10 microns rating. To achieve the highest efficiency required, suggested maximum flow rates are typically 45-50 GPM.
No Sump Disassembly Required for Filter Changes

Because the X100 is top loaded with a specially developed threaded lid and gasket, filter elements can be changed without disassembling the sump and without additional tools for tightening. With the X100, changing the filter requires much less time than with many other types of filter housings.

Positive Sealing of Both Bag and Cartridge Filters

The X100 Convertible Filter Housing, along with the Polyloc® seal point of our X01 filter bags and the filter housings, creates a positive seal and eliminates the chance of fluid by-pass.

Additional X100 Attributes

The X100 Convertible Filter Housing can be easily converted to accept either a filter bag or filter cartridge.

To convert the housing:

• To filter bag operation: order the X100 Plastic Basket.
• To filter cartridge operation: order the Cartridge Plate and Basket Gasket.

Replacement parts for the X100 Convertible Filter Housing are also available through FSI.

At FSI, Service and Technology Work Together to Provide Filtration Solutions

In addition to the X100 filtering system, FSI offers a broad line of vessels, filters, custom filter products, adsorbent media and accessories to fit most filtration requirements.

FSI team members are committed to working with our customers to create effective filtration solutions. If your goals are to reduce costs and increase efficiency in your liquid filtration processes, call FSI today. We will begin the dialogue by having a direct sales representative or dealer gather vital information about your facility, operations and processing requirements. Experienced FSI engineers will then work with you to design and build a liquid filtration system that specifically meets your needs.

For more information or to order products, please call 800.348.3205 or email sales@fsifilters.com.

Visit www.fsifilters.com or email sales@fsifilters.com.

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IN THE USA

FILTER SPECIALISTS, INC., located in Michigan City, Indiana, is a leader in filtration products. For more information on other products and services visit www.fsifilters.com or email sales@fsifilters.com.

Distributed By:

X100 CONVERTIBLE FILTER HOUSING

FEATURES

BENEFITS

Filter Materials Top converted to lower disassembly

Positive seal point

Longer runtimes, uniformly treated

Positive sealing

No field by-pass

Cost effective design

Easy removal for manual cleaning or in-place cleaning

The X100 and X100N meet and exceed ANSI/NSF Standard 61 for material requirement. For more information on other products and services visit www.fsifilters.com or email sales@fsifilters.com.
X100 Convertible Filter Housing

The Right Choice for Many Applications and for Many Reasons

FSI X100 Convertible Filter Housing provides an excellent, low-cost alternative to other types of filter housings.

FSI X100 is Lightweight and Chemical-Resistant

Manufactured from polypropylene with a UV inhibitor for all-weather durability, X100 housings are strong, lightweight and economical. Resistant to a wide range of chemicals for a wide range of industrial applications, the X100 will precisely fit your particular needs.

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Easy Cleaning is Another X100 Trademark

FSI engineered the X100 convertible filter housing with a “clean well” design, a smooth interior surface that allows faster, easier manual cleaning or in-place flushing.

The X100 Filter Housing is Convertible

Designed to accept either a bag filter or a cartridge filter, the FSI X100 filter housing allows you to choose the filter media and construction to precisely fit your filtering needs.

FSI X100 Filters

Whenever your application, FSI X100 filter housing is highly adaptable. A choice of filter elements and a complete line of accessories allow the X100 to be your best filter choice.

X01 Filter Bag

Measuring 6” in diameter by a length of 20”, the X01 Filter Bag has 2 square feet of surface area (0.186 square meters), making it equivalent to a standard #5 size bag. The X01 is fitted with the patented Polyseal® Ring that seals directly against the wall of the filter housing and eliminates the chance of fluid bypass.

A heavy-duty Polypropylene Reinforced Basket supports the X01. The Polyseal® Ring sits directly against the filter collar for additional bag support.

FSI X100 Accessories

X100 Plastic Leg Stands

Lightweight molded plastic leg assemblies are designed to mount directly on the X100. X100 leg assemblies provide an economical means for supporting the vessel during installation and operation.

X100 Metal Leg Stands

Triped leg stands are available in either carbon steel or 304 stainless steel for heavy-duty vessel support. Dual ribbed-based metal bands and bolt tightening assemblies assure a secure installation.

Cone Base Stand for the X100

The X100 Cone Base Stand comes with the option of a 2” NPT elbow or a Tripple flange to suit different piping configurations. Made of 100% polypropylene, the cone base can be mounted directly to the floor to form a solid base for the housing.

Cone Base Stand

The X100 Cone Base Stand comes with the option of a 2” NPT elbow or a Tripple flange to suit different piping configurations. Made of 100% polypropylene, the cone base can be mounted directly to the floor to form a solid base for the housing.

Cone Base Stand

The X100 Cone Base Stand comes with the option of a 2” NPT elbow or a Tripple flange to suit different piping configurations. Made of 100% polypropylene, the cone base can be mounted directly to the floor to form a solid base for the housing.

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Cone Base Stand
Meeting & Exceeding World Production Standards... And Yours.

FSI has been serving the industry for over 30 years and has earned ISO 9001 certification and worldwide recognition as a one-source provider of liquid filtration solutions. At FSI, we control the manufacturing process of all our components, helping us to provide you with products that are not only top quality, but cost effective too.

FSI fabricates liquid filtration products to meet or exceed international manufacturing specifications. In fact, many of our products have established new standards for industrial filtration. With production facilities in Europe, South America, China and North America, FSI serves markets worldwide. Where your product depends on quality, you can depend on FSI.

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**X100 Convertible Filter Housing**

**The Right Choice for Many Applications and for Many Reasons**

FSI’s X100 Convertible Filter Housing provides an excellent, low-cost alternative to other types of filter housings.

**FSI X100 in Light-weight and Chemical-Resistant**

Manufactured from polypropylene with a UV inhibitor for all-weather durability, X100 housings are strong, lightweight and economical. Resistant to a wide range of chemicals for a wide range of industrial applications, the X100 will precisely fit your particular needs.

**Easy Cleaning in Another X100 Trademark**

FSI engineered the X100 convertible filter housing with a "clean wall" design, a smooth interior surface that allows faster, easier manual cleaning or in-placeflushing.

**The X100 Filter Housing is Convertible**

Designed to accept either a bag filter or a cartridge filter, the FSI X100 filter housing allows you to choose the filter media and construction to precisely fit your filtering needs.

**FSI X100 Filters**

Wherever your application, FSI’s X100 filter housing is highly adaptable. A choice of filter elements and a complete line of accessories allow the X100 to be your best filter choice.

**X01 Filter Bag**

Measuring 6” in diameter by a length of 20”, the X01 Filter Bag has 2 square feet of surface area (0.186 square meters), making it equivalent to a standard 8 ½ size bag. The X01 is fitted with the patented Polyloc® Ring that seals directly against the wall of the filter housing and eliminates the chance of fluid bypass.

**FSI X100 Accessories**

X100 Plastic Leg Stands
Lighweight molded plastic leg assemblies are designed to mount directly on the X100. Each leg stand provides an economical means for supporting the vessel during installation and operation.

X100 Metal Leg Stands
Tripod leg stands are available in either carbon steel or 304 stainless steel for heavy-duty vessel support. Dual ribbed-based metal bands and bolt tightening assemblies assure a secure installation.

Cone Base Stand for the X100
The X100 Cone Base Stand comes with the option of a 2’’ NPT elbow or a Tripple future to suit different piping configurations. Made of 100% polypropylene, the cone base can be mounted directly to the floor to form a solid base for the housing.

***DGPX100 Series Differential Pressure Gauge***

FSI offers a simple, effective, and economical way to maintain optimum performance of the X100 filter system by indicating the filter cartridge pressure drop. The visual indicator changes from green (clean filter media) to red to alert the user that the filter is dirty.

- **Available in two pressure ranges:** 6-8 PSID or 15-20 PSID
- **Made of glass-fiber reinforced stainless steel woven materials (check foci compatibility)**
- **Includes a Viton Seal/Teflon-coated spring**

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**FSI X100 Convertible Filter Housing**

**Opening Height for Different Cartridges**

- X01 Bag Filter Housing: 6" x 24"
- X100C Cartridge Filter Housing: 6" x 24"

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**X100 Cone Base Stand**

**X100 Plastic Leg Stands**

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**Clear Water Pressure Drop**

<table>
<thead>
<tr>
<th>Filter Cartridge Seal</th>
<th>FSI X100 Bag Cartridge Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>5&quot; x 20&quot;</td>
<td>3 ½&quot; x 20&quot;</td>
</tr>
</tbody>
</table>

---

**Pressure Drop**

<table>
<thead>
<tr>
<th>Flow Rate (gpm)</th>
<th>Pressure Drop - Clear Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>0.05 psid</td>
</tr>
<tr>
<td>80</td>
<td>0.10 psid</td>
</tr>
<tr>
<td>100</td>
<td>0.15 psid</td>
</tr>
<tr>
<td>150</td>
<td>0.20 psid</td>
</tr>
<tr>
<td>200</td>
<td>0.25 psid</td>
</tr>
<tr>
<td>250</td>
<td>0.30 psid</td>
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<tr>
<td>300</td>
<td>0.35 psid</td>
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<td>400</td>
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<tr>
<td>500</td>
<td>0.45 psid</td>
</tr>
<tr>
<td>600</td>
<td>0.50 psid</td>
</tr>
</tbody>
</table>

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**Maximum Flow with GPM is the maximum flow rate of the filter cartridge without filter media installed in the vessel.**

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X100 CONVERTIBLE FILTER HOUSING

**FEATURES**
- Filter Elements Top Loaded
- No Sump Disassembly
- Polypropylene Construction
- Lightweight, Chemically Resistant
- Convertible: Uses Cartridges or Bags
- Positive Sealing: No Fluid By-pass
- Clean Wall Design: Easy Access for Manual Cleaning or In-Place Flushing
- FDA, NSF and CE Mark: Meets Certification Requirements

**HOUSING SPECIFICATIONS**
- **ASME Code Not Required**
- **Model No.**
  - X100B: Plastic Bag Vessel (BUNA) Housing, Lid, Basket, Lid Gasket (BUNA)
  - X100C: Plastic Cartridge Vessel (BUNA) Housing, Lid, Cartridge Plate, Lid Gasket & Plate Gasket (BUNA)

**BAG & CARTRIDGE FILTERS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Micron Rating</th>
<th>Material</th>
<th>Element Seat</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPMO</td>
<td>X01 Filter Bag</td>
<td>100, 150, 200, 300, 600, 800</td>
<td>Polypropylene</td>
<td>Polyloc Ring®</td>
</tr>
<tr>
<td>BPMF</td>
<td>X01 Filter Bag</td>
<td>1, 2, 5, 10, 25</td>
<td>Polypropylene</td>
<td>Polyloc Ring®</td>
</tr>
<tr>
<td>BPMFO</td>
<td>X01 Filter Bag</td>
<td>1, 2, 25, 90, *</td>
<td>Polypropylene</td>
<td>Polyloc Ring®</td>
</tr>
<tr>
<td>CMMF</td>
<td>X20 Filter Cartridge</td>
<td>1, 5, 10, 25, 50, 75, 100</td>
<td>Polypropylene</td>
<td>Polyseal**</td>
</tr>
</tbody>
</table>
| * BPOMFOAX01 Filter Bag is a Special Purpose Bag with a Micron Rating of 25.  
** Provides a socket-fit positive seal in a single open-end cartridge design. Based upon a single-pass filtration test in accordance with ASTM F795-88 procedure.  
Note: One FSI Polyseal Cartridge has 20 times the capacity of a standard 10” cartridge.

### X100 Attributes
The X100 Convertible Filter Housing can be easily converted to accept either a filter bag or filter cartridge.

To convert the housing:
- To filter bag operation: order the X100 Plastic Basket.
- To filter cartridge operation: order the Cartridge Plate and Plate Gasket.

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### OPTIONS & REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement Lid - No Basket</td>
<td>BPMOFSE 1/4”NPT</td>
</tr>
<tr>
<td>Plastic Basket</td>
<td>BPMO</td>
</tr>
<tr>
<td>Cartridge Plate</td>
<td>BPMOFTRRU</td>
</tr>
<tr>
<td>Plastic Leg and Foot Assembly</td>
<td>BPMFTYY</td>
</tr>
</tbody>
</table>

### Additional X100 Attributes
Because the X100 is top loaded with a specially developed threaded lid and gasket, filter elements can be changed without disassembling the sump and without additional tools for tightening. With the X100, changing the filter requires much less time than with many other types of filter housings.

Positive Sealing of Both Bag and Cartridge Filters

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