

High Capacity Filtration Solutions

High-capacity filter vessels and elements designed for high flow rates, heavy solids loading, and continuous operation in critical applications.

 www.pfpusa.com



Precision Filtration Products
888.679.6645
sales@pfpusa.com



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Purchase & Rental Options Available

Filter Vessels

Horizontal High-Flow Vessels



PFPUSA has a large rental fleet of High Flow Filter Vessels, ready to dispatch for last-minute emergencies. We offer High Flow Filter Vessels in multiple sizes ranging from 1 Round to 54 Round. All are designed to remove particulate contamination, such as, dirt, rust, sediment, pipe scale, sand and metal from the water or fuel stream.

- **Built to ASME Code, Section VIII, Stamped & Certified**
- **Standard 150 PSI w/ higher pressure & temp. ratings available**
- **Holds 1 to 54 elements - bag or cartridge style**
- **Simple & fast filter change-outs**
- **Swing bolt & quick open closure lids**

Single Element Vessels



We offer economical single element vessels for low to moderate flow rates. Both horizontal and vertical vessels are available. An 8" diameter vessel containing a single 80" filter can handle up to 500 GPM flow and match the solids holding of a larger 24" diameter vessel with standard 40" depth filters.

- **Reduced capital and operating costs**
- **Ideal for applications with limited space & high flow requirements**

Vertical Cartridge Vessels



Vertical cartridge vessels are ideal for applications requiring fine filtration, long service life, and minimal downstream contamination risk. Their modular design supports a wide range of cartridge styles and materials, making them adaptable across industries such as fuels, chemicals, water treatment, and process fluids. This unit is suited for applications where first-stage filtration is required.

- **Efficiently removes solids from fuels & process fluids**
- **Extends the life of downstream coalescers & polishing filters**
- **Compact vertical footprint for constrained installations**
- **Supports nominal to absolute micron filtration**
- **Multi-cartridge configurations enable high flow rates**
- **Broad compatibility with cartridge types, lengths, and materials**



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Bag Vessels

Bag filter vessels provide a cost-effective and versatile solution for removing solids from liquids in high-flow industrial processes. Designed for ease of operation, bag vessels allow quick change-outs and simple maintenance. This type of vessel can be used as a strainer with wire mesh lined baskets, and is also compatible with fabric media bags for low-cost, nominal filtration. We also offer pleated-bag upgrades for longer service life and absolute rated filtration.

- **High dirt-holding capacity for longer service intervals**
- **Quick & simple bag change-outs reduce downtime**
- **Economical filtration for high-flow, high-solids applications**



Ideal for Pipeline Pigging

The solids generated in pipeline pigging can overwhelm standard filter systems. The slug of solids in front of a pig can cause rapid filter plugging and filter failure. Standard filter systems will require numerous change-outs, often in a short period of time.

Our filter systems are a leader in pipeline pigging filtration. A 24" diameter vessel with 80" filters and can flow over 4,900 gpm (7,000 bl/hr) in LPG and can remove a slug of solids exceeding 300 lbs. The result is less filters required.

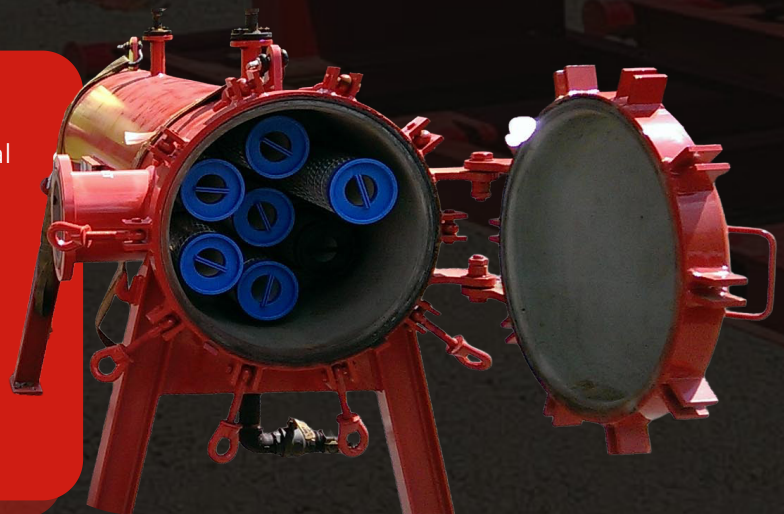
Filter change-outs are also faster when using our vessels. Each vessel is equipped with a quick opening closure which is safe and easy to operate. Our filter cartridges are easily installed and have a zero bypass seal. There are no seal nuts or springs required.

Solids are trapped inside the filter cartridge and not jarred loose during operation or liquid evacuation. The result is a cleaner vessel interior and a reduced need to wash the vessel between change-outs.

Applications

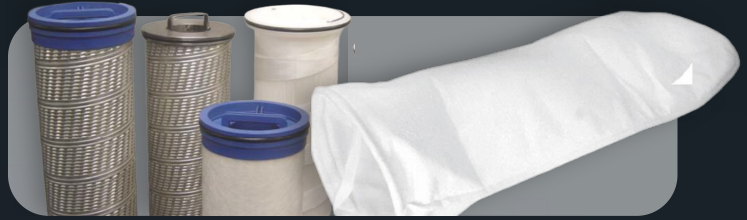
Our high capacity elements & housings are ideal for high-flow systems where heavy solids loading, extended run time, and reduced change-outs are critical to maintaining reliable operations.

- **Pipeline Pigging & Filtration Operations**
- **Bulk Fuel & Oil Transfer Operations**
- **Water Injection**
- **Barge & Tank Farm Loading**
- **Large Amine Systems**



High Flow Rates, High Solids

Combining high flow rates and high solids is a challenge for most filters. High capacity filters meet this challenge with the highest flow and dirt holding combination available. Flow capabilities can exceed 600 GPM per 80" filter and solids holding can reach up to 75 lbs, depending on your application.



➤ Based on vessel diameter, high-capacity filters can hold up to **11 times more solids**.

➤ Our high-capacity filters can hand up to **five times more flow**.

➤ Each 80" filter can match the solids holding of **65 standard 30" depth filters**.



Value

Fewer filter changeouts means less costs associated with labor, disposal, and fluid losses. The difference in performance can be so great that some competitive filters would need to be **FREE** in order to have comparable overall value.

Cartridge Configuration Options

Filter Lengths

- 40"
- 50"
- 60"
- 80"

Filter Medias

- Glass Fiber
- Polypropylene
- Polyester
- Nylon & Ryton
- Cellulose
- Nomex
- Stainless Steel

Support Structures

- Nylon
- Polypropylene
- Acetal
- Metal

Micron & Temp. Ratings

- 0.5 to 150 micron
- Up to 450°F

Bag Configuration Options

Bag Sizes

- Size #1
- Size #2
- Custom lengths available

Bag Medias

- Polypropylene
- Polyester
- Nylon

Support Structures

- Nylon
- Polypropylene
- Acetal
- Metal

Micron Ratings

- 1 to 1500 micron