USF Series
ASME Code Multi-Cartridge Filter Housings—Four through Fifty-Two Round

Maximum Operating Pressure
150 psig (10.3 bar) @ 300°F (149°C)

Inlet and Outlet Connections
Inlet/Outlet: 2"–6" Flange
Drain Ports: 1/2"–3/4" FNPT
Vent Ports: 1/4"–1/2" FNPT

Materials of Construction
Head and Shell: 304L or 316L Stainless Steel
Connections: 304L or 316L Stainless Steel
Vent and Drain Plugs: 304L or 316L Stainless Steel
Mounting Legs: 304L Stainless Steel
Swing Bolts: Zinc Plated Steel

Gaskets
Buna N (FDA Grade)
Optional: EPR, Silicone, Viton or Teflon
Encapsulated Silicone

Finish
Glass Bead
Optional: Electro-polish, passivate or 134 epoxy coating

Cartridge Type
DOE style cartridges (maximum 2 5/8" diameter)
Optional: 222 and 226 adapters. For 2 3/4" diameter cartridges… order as 21USF, 32USF or 50USF housings

Custom Options
- Gauge Ports or Gauge Ports with Pressure Gauges
See Ordering Guide for complete selection of options

Specifications & Operating Parameters
• ASME "U" code design housings for commercial and industrial filtration needs
• Heavy-duty 304L or 316L stainless steel construction for maximum durability
• 150 psig (10.3 bar) @ 300°F (149°C) design pressure
• Swing bolt closure with lifting davit for easy cartridge change-outs and secure sealing
• Holds four (4) to fifty-two (52) cartridges up to 40" lengths to service a wide range of flow rates
• Accepts standard double open-ended (DOE) style cartridges (222 and 226 style adapters are optional)
• Knife edge seals eliminate bypass on DOE cartridges
• Top spring seals allow for cartridge length variations
• Flange inlet and outlet connections allow for easy piping
Drain connections permit quick evacuation of housing
• Equipped with heavy-duty stainless steel mounting legs
• For information on filter cartridges, flow charts and drawings visit our website or call the factory

Applications
Water
Chemicals
Electronics
Power
Coolants
Desalination
Food & Beverage
Oil / Gas
Inks / Paints / Coatings
Pulp & Paper

www.shelco.com
### Dimensions

![Diagram of a filter housing](image)

### Ordering Guide (Example: 12USF3SB-316-222-6F-GP-B)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>QUANTITY (LENGTH) OF CARTRIDGES</th>
<th>RATED FLOW CAPACITY* GPM(LPM)</th>
<th>INLET / OUTLET (PIPE SIZE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4USF/5USF4</td>
<td>4/5 (10”-40”)</td>
<td>28-140 (106-530)</td>
<td>2”</td>
</tr>
<tr>
<td>7USF4</td>
<td>7 (10”-40”)</td>
<td>49-196 (185-742)</td>
<td>2”</td>
</tr>
<tr>
<td>12USF4</td>
<td>12 (20”-40”)</td>
<td>168-336 (636-1272)</td>
<td>3”</td>
</tr>
<tr>
<td>22USF4</td>
<td>22 (30”-40”)</td>
<td>462-616 (1749-2332)</td>
<td>4”</td>
</tr>
<tr>
<td>36USF4**</td>
<td>36 (30”-40”)</td>
<td>756-1008 (2862-3816)</td>
<td>6”</td>
</tr>
<tr>
<td>52USF4</td>
<td>52 (30”-40”)</td>
<td>1092-1456 (4134-5512)</td>
<td>6”</td>
</tr>
</tbody>
</table>

*Housings will accept cartridge lengths: 30” = (29 1/4” or 30”) and 40” = (39” or 40”)

* Based upon 7 gpm per 10” length with a 25 micron wound cartridge at 2 PSID clean and viscosity of 1 cps. Flow rates are for guidelines only.

**Actual flow rates are based on fluid, viscosity, cartridge type, micron ratings and other factors.

When using 222 or 226 connectors with 2 3/4” OD filter cartridges in a 36USF housing, you must change to a 32USF housing (32 round).

When using 222 or 226 connectors with 2 3/4” OD filter cartridges in a 52USF housing, you must change to a 50USF housing (50 round).

Note: Dimensions are for reference purposes only. Detailed dimensional drawings are available. Please contact Shelco’s technical support staff for additional information.

### Customization

Housings may be customized to meet your precise requirements. Contact Shelco’s technical support staff or your distributor for more information.

#### Shelco Filters

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