SIMPLEX BASKET STRAINER  FLANGED ENDS (FF)
ASME CLASS 150  ALUMINUM BRONZE  LEAD FREE

FEATURES

- **ASTM B148 BODY MATERIAL**
  Aluminum Bronze is stronger and less likely to corrode than other Bronze alloys, making it a preferred choice for sea water and other applications where corrosion is a concern. Because of its copper content, marine organisms cannot colonize on the material. Additionally, Titan’s BS95-AB is used for potable water applications as it meets lead free statutes requiring that the lead content in the wetted surfaces is 0.25% or less as determined by a weighted average.

- **HIGH QUALITY DESIGN**
  The BS95 Basket Strainer boasts many unique design features including: Inlet/Outlet bosses with gauge taps (6” and up), spot-faced flange bolt holes, plugged bottom drain and cover vent, cast-in support legs (6” and up), encapsulated cover gasket, and an optional quick-opening cover design.

- **MINIMAL PRESSURE LOSS**
  Pressure loss is minimized by providing a slanted straining element design (sizes 2½” and up) and straight flow path. Plugged, NPT taps are provided (near the inlet and outlet on both sides of sizes 6” and up) allowing for the quick mounting of pressure gauges to monitor pressure loss.

- **LARGE STRAINING CAPACITY**
  With its large body and sizeable straining element, the BS 95-AB has the ability to store large quantities of debris without affecting pressure loss - thus maximizing time between servicing.

- **NUMEROUS STRAINING ELEMENT OPTIONS**
  Straining elements are available in a variety of perforations, meshes, and materials. Special designs are also available including magnetic, wedge wire, drilled perforations, and pleated straining elements. The standard material for straining elements is type 304 Stainless Steel.

MARKETS:
- Potable Water, Water & Wastewater, pulp & paper, Chemical & Petrochemical, Petroleum, Oil & Gas, transportation, government, marine industry (seawater), and food industry

GENERAL APPLICATION:
Simplex Basket Strainers are installed into a pipeline system to remove unwanted debris from the pipeline flow. Basket Strainers are commonly used in horizontal pipelines where debris loading is high and the collection of solids is required. Straining is accomplished via a perforated or mesh lined straining element, internal to the basket strainer. In general, the size of the perforation or mesh should be slightly smaller than the smallest debris particle to be removed. It is important to note that the correct size of a basket strainer is determined by its job function, not by the size of the pipeline.

The above data represents common market and service applications. No representation or guarantee, expressed or implied, is given due to the numerous variations of concentrations, temperatures and flow conditions that may occur during actual service.

TECHNICAL

PRESSURE/TEMPERATURE RATING ⃝
AB - ASTM B148 - CLASS 150

- WOG (Non-shock): 225 PSI @ 150 °F

1. The BS 95-AB meets requirements for lead free use in potable water systems. The lead content in the wetted surfaces is 0.25% or less as determined by a weighted average. For more information on lead free requirements, contact Titan Flow Control.  
2. The above listed temperatures are theoretical and may vary during actual operating conditions. These ratings are based on ASME B16.24 for ASTM B62. The body material of the BS 95 is Aluminum Bronze B148 which may slightly exceed these ratings.

MODEL: BS 95-AB
(ALUMINUM BRONZE)
SIZES: 2” ~ 12”

APPLICATIONS

TITAN® FLOW CONTROL, INC.
YOUR PIPELINE TO THE FUTURE!
Tel: 910-735-0000  Fax: 910-738-3848  titan@titanfci.com  www.titanfci.com
290 Corporate Drive  PO Box 7408  Lumberton, NC 28358
### BILL OF MATERIALS

<table>
<thead>
<tr>
<th>No.</th>
<th>PART</th>
<th>BS 95-AB</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Aluminum Bronze ASTM B148</td>
</tr>
<tr>
<td>2</td>
<td>Cover (3)</td>
<td>Aluminum Bronze ASTM B148</td>
</tr>
<tr>
<td>3</td>
<td>Cover Gasket (2) (3) (4)</td>
<td>PTFE</td>
</tr>
<tr>
<td>4</td>
<td>Straining Element (2)</td>
<td>Type 304 Stainless Steel (Other materials are available)</td>
</tr>
<tr>
<td>5</td>
<td>Hex Bolt (4)</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>6</td>
<td>Plug</td>
<td>Stainless Steel (2)</td>
</tr>
</tbody>
</table>

1. Equivalent or better materials may be substituted at the manufacturer’s discretion.
2. Denotes recommended spare parts.
3. Bolted cover is shown. For information on clamp cover, please contact factory.
4. 302 stainless steel bolts are available.

### Screen Selection Guidelines

<table>
<thead>
<tr>
<th>Size</th>
<th>Liquid</th>
<th>Open Area</th>
<th>Steam</th>
<th>Open Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” ~ 4”</td>
<td>1/16 (.0625)</td>
<td>41%</td>
<td>3/64 (.045)</td>
<td>36%</td>
</tr>
<tr>
<td>5” ~ 12”</td>
<td>1/8 (.125)</td>
<td>40%</td>
<td>30 Mesh(1)</td>
<td>44.8 %</td>
</tr>
</tbody>
</table>

1. For 10” and above, consult factory on screen selections for steam.

### Pressure - Temperature Rating

**ASME CLASS 150**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>2</th>
<th>2 1/2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
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<tbody>
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<td>in</td>
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</tr>
<tr>
<td>A DIMENSION FACE TO FACE (3)</td>
<td>8.5</td>
<td>216</td>
<td>5.875</td>
<td>150</td>
<td>5.0</td>
<td>127</td>
<td>5.0</td>
<td>127</td>
<td>15</td>
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<tr>
<td>C/F</td>
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<tr>
<td>B DIMENSION CTR. LINE TO BOTTOM</td>
<td>8.75</td>
<td>222</td>
<td>5.25</td>
<td>134</td>
<td>5.5</td>
<td>140</td>
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<tr>
<td>C DIMENSION CTR. LINE TO TOP</td>
<td>11.187</td>
<td>201</td>
<td>7.875</td>
<td>201</td>
<td>6.125</td>
<td>156</td>
<td>6.125</td>
<td>156</td>
<td>7.0</td>
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</tr>
<tr>
<td>D DIMENSION NPT DRAIN</td>
<td>13.875</td>
<td>294</td>
<td>11.5</td>
<td>294</td>
<td>6.75</td>
<td>294</td>
<td>6.75</td>
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<tr>
<td>E DIMENSION NPT GUAGE TAP</td>
<td>17.375</td>
<td>353</td>
<td>15.0</td>
<td>353</td>
<td>8.5</td>
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<tr>
<td>C/F</td>
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**As Titan product changes occur, there may be short-term differences between actual product specifications and the information contained within our literature. Titan FCI reserves the right to make design and specification changes to improve our products without prior notification. When required, request certified drawings. TITAN is a registered trademark of Titan Flow Control Incorporated.**

### Additional Design & Technical Notes:

- **Body Material Application Notes:**
  - Aluminum Bronze (ASTM B148) is a preferred material for lead-free basket strainers, meeting requirements for potable water systems containing 0.25% lead or less by average weight on all wetted parts of the strainers.
  - Aluminum Bronze is strong and corrosion resistant, meeting the needs of many various applications, such as seawater and marine.

1. Equivalent or better materials may be substituted at the manufacturer’s discretion.
2. Denotes recommended spare parts.
3. Bolted cover is shown. For information on clamp cover, please contact factory.
4. 302 stainless steel bolts are available.

### Screens Selection Guidelines:

- **Flanged Ends** • Flat Face • Aluminum Bronze

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