Foot Valves

Models 63, 357 & 302BT

- Several different models
- Size range 3/8” through 24”
- Wide material selection range.
- Lower friction losses.
Foot Valve Operation:
Danfoss Flomatic offer a wide range of foot valves in a size range from 3/8” through 36” in several different materials. Foot valves, Model 63, 302BT and 357 are designed to be installed on the suction side of a pump. The purpose of a foot valve is to maintain pump prime between pumping cycles. A strainer prevents debris from entering the piping system. Foot valves are designed to minimize headloss and optimize pumping efficiency.

Foot Valve Applications:
Foot valves are usually installed and positioned at the lowest point of the intake (suction) piping, below the water level, and often near the bottom of lakes, rivers, storage tanks and pits.

- Municipal Water Treatment
- Rural Fire Protection
- Industrial
- HVAC
- Irrigation
- Car Wash Systems

Foot Valve Model 63
Economical foot valve designed for use in irrigation, water systems and other industrial pumping applications. This foot valve offers spring load closing and can be installed in any direction. The foot valve has extremely low headloss. The valve has female NPT threaded connection for easy installation.

Valve Sizes and Weights

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>“A” Width</th>
<th>“B” Body</th>
<th>“C” Height</th>
<th>Weight (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>4764</td>
<td>3 13/32”</td>
<td>2 19/32”</td>
<td>6 1/16”</td>
<td>4</td>
</tr>
<tr>
<td>2 1/2”</td>
<td>4765</td>
<td>4 11/32”</td>
<td>2 7/8”</td>
<td>6 15/16”</td>
<td>5</td>
</tr>
<tr>
<td>3”</td>
<td>4766</td>
<td>5 5/8”</td>
<td>3 7/8”</td>
<td>9 1/4”</td>
<td>9</td>
</tr>
<tr>
<td>4”</td>
<td>4767</td>
<td>6 3/8”</td>
<td>4 21/32”</td>
<td>11 13/32”</td>
<td>17</td>
</tr>
<tr>
<td>6”</td>
<td>4689</td>
<td>8”</td>
<td>7 21/32”</td>
<td>18 1/2”</td>
<td>63</td>
</tr>
</tbody>
</table>

*Note: 6” Model has a different body style, see product spec sheet for details.

Material of Construction

1. Body (Epoxy Coated) - Cast Iron - ASTM A-216
2. Hex Bolt - Stainless Steel - ASTM 18-8
3. Flat Washer - Stainless Steel - ASTM 18-8
4. Rubber Disc - Buna - N
5. Type F Screw - Plated Steel
6. Follower **(Epoxy Coated) - Ductile Iron ASTM 60-40-18
7. Hex Nut - Stainless Steel ASTM 18-8
8. Spring - Stainless Steel ASTM 302
9. Screen - Polyethylene

**Note: 2” size Delrin® and 2 1/2” size Unleaded Bronze

Pressure Loss (PSI or FEET) vs. Flow in Gallons per Minutes (GPM)
Foot Valve Model 302BT

Designed specifically for municipal and industrial pumping applications where a heavy duty, extremely reliable valve may be required. This top quality foot valve offers field replaceable seat ring and has extremely low headloss. The foot valve has flanged connection ANSI 125.

Valve Sizes and Weights

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>&quot;A&quot; Width</th>
<th>&quot;B&quot; Height</th>
<th>Weight (Lbs.)</th>
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</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>4763BT</td>
<td>6&quot;</td>
<td>8 21/64&quot;</td>
<td>23</td>
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<td>30</td>
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<tr>
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<td>4769BT</td>
<td>7 ½&quot;</td>
<td>9 9/64&quot;</td>
<td>37</td>
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<td>4770BT</td>
<td>9&quot;</td>
<td>10 3/8&quot;</td>
<td>63</td>
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<td>15 7/8&quot;</td>
<td>100</td>
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<tr>
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<td>4774BT</td>
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<td>26 17/32&quot;</td>
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<td>5422BT</td>
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Material of Construction

1. Valve Body (Epoxy Coated) – Cast Iron – Class 30
2. Bushing – Bronze UNS C93200
3. Poppet – Bronze C83600
4. Seat ring – Bronze C83600
5. Hex nut – Zinc plated steel
6. O-Ring – Buna-N
7. Gasket – Vellumoid
8. Button head socket screw – Stainless Steel 304
9. Flange – Cast Iron – Class 30
10. Hex head bolt – Zinc plated steel
11. Strainer Basket – Stainless Steel 304

Request product specifications sheet for additional dimensions and data.
Covered by Patent No. 6,024,121
Foot Valve Model 357
Designed for use in irrigation and other pumping applications where water may be dirty due to suspended silt and sand. This foot valve offers extremely low headloss. Female NPT threads for easy installation.

Valve Sizes and Weights

<table>
<thead>
<tr>
<th>Size</th>
<th>Part No.</th>
<th>&quot;A&quot; Height</th>
<th>&quot;B&quot; Width</th>
<th>Weight (Lbs.)</th>
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<td>1 ¾&quot;</td>
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<td>4970</td>
<td>15 11/16&quot;</td>
<td>15 1/8&quot;</td>
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</tbody>
</table>

Simple and reliable construction

Material of Construction

5. Weight Cast Iron – ASTM A-48
6. Seal Leather
7. Bolt Zinc Plated
8. Nut Zinc Plated

Other Danfoss Flomatic Foot Valves

- **Model 812XTF**
  - All 316 stainless steel construction.
  - Threaded connection.
  - Metal to metal seating.
  - Teflon O-Ring seal.
  - Size range: ½" - 8"

- **Model 812XFF**
  - All 316 stainless steel construction.
  - Threaded connection.
  - Metal to metal seating and Teflon O-ring.
  - Size range: ½" - 8"

- **Model 80S6F**
  - All 316 stainless steel construction.
  - Threaded connection.
  - Stainless steel poppet with VITON seating.
  - Size range: 1" - 8"

- **Model 60SE**
  - Unleaded body with threaded female NPT connection.
  - Feature a Nitrile seat (Buna N)
  - Size range: ½" - 4"

- **Model 190D**
  - Acetal body and strainer.
  - Nylon Poppet with Nitrile Seat (Buna N)
  - Size range: 3/8" - 2"

- **Model 104PS**
  - Features rugged high-strength Noryl valve body with tapered stainless steel Nitrile (Buna N) seal.
  - Size range: 1" & 1 ¼"