**Description**

Vortex float valves are float operated valves for use in automatic filling of water tanks, troughs, cisterns etc. The valve is configured for above water mounting. The float operates a small pilot valve which in turn operates the main diaphragm valve. Vortex float valves are a good choice where maximum flow, compact, robust, non corrosive construction and variable float levels are required.

**Applications**

Maintaining Water Levels in:
- Water Storage Tanks
- Water Cooling Towers
- Air Conditioning Systems
- High Pressure Cleaning Systems
- Animal Drinking Troughs
- Irrigation Applications

**Mounting Positions**

- Top Entry with Extension
- Top Entry Middle Extension
- Top Entry No Extension

Two inlet diameters above overflow to avoid back siphoning

N.B. Some mounting positions may not comply with local regulations

**Flow Graph (All Sizes)**

Flow LPM

Inlet Pressure Bar

Imperial GPM

20 40 60 80 100 120 140

35 30 25 20 15 10 5

PSI

600 L / MIN

**Features**

- High flow
- Compact robust construction
- Mounts horizontally or vertically
- Made from corrosion resistant materials
- Valve unscrews from tail for easy Valve seal access
- Shuts down slowly to minimise water hammer
- 20 - 60mm (¾" - 2½") water level differential (increases as water inlet pressure increases)
- Pressure rating 0.3 - 7 Bar (5 - 100 PSI)
- Float position easily adjustable with no tools
- Valve has switch to lock it in off position
- Has port to connect Frostpro anti freeze device

**Options**

- Inlet Size
  - BSP: 1 ¼" 32mm, 1½" 40mm, 2" 50mm
  - NPT: 1 ¼", 1½", 2"

**Floats:** 70mm wide floats supplied standard.

Note: Not Suitable for underwater mounting. Refer to VXVB for Vortex underwater mounting.

**VORTEX FLOAT VALVE SPECIFICATION**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>CODE</th>
<th>INLET SIZE</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vortex Float</td>
<td>VXV</td>
<td>1 ¼&quot; bsp</td>
<td>32</td>
</tr>
<tr>
<td>Valve</td>
<td></td>
<td>1 ½&quot; bsp</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2&quot; bsp</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 ¼&quot; NPT</td>
<td>114</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 ½&quot; NPT</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2&quot; NPT</td>
<td>2</td>
</tr>
</tbody>
</table>

eg A Vortex Float Valve with 2" BSP thread has following spec numbers VXV50

Note: Product may differ slightly from these specs due to ongoing product development.
# Vortex Dimensions & Materials

## Vortex Dimensions

<table>
<thead>
<tr>
<th>Part</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve Body</td>
<td>6F Nylon</td>
</tr>
<tr>
<td>White Internal Parts</td>
<td>Acetal</td>
</tr>
<tr>
<td>Arm Assembly</td>
<td>ABS</td>
</tr>
<tr>
<td>Diaphragm</td>
<td>EPDM</td>
</tr>
<tr>
<td>Seal</td>
<td>Urethane</td>
</tr>
</tbody>
</table>

## Float Dimensions

<table>
<thead>
<tr>
<th>Part</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Springs, Bolts, Nuts, Pins, Screws</td>
<td>304 Stainless Steel</td>
</tr>
<tr>
<td>O’Rings</td>
<td>Nitrile</td>
</tr>
<tr>
<td>Float</td>
<td>HDPE</td>
</tr>
</tbody>
</table>

## Maximum Operating Temperature

60°C, 140°F