The Double Float® mercury-activated, wide-angle pump switch is designed to control pumps up to 1 HP at 120 VAC and 2 HP at 230 VAC for
- non-potable water applications
- sewage applications
It is well-suited for confined applications requiring an accurate pumping range. It is not sensitive to rotation or turbulence. This switch is voltage sensitive - use with correct voltage.
The Double Float® pump switch consists of two floats and a splice tube. Each float contains a heavy-duty mercury switch. The splice tube contains a holding relay which enables the floats to function in series.
The holding relay eliminates pump chatter in turbulent conditions allowing the Double Float® pump switch to operate relay control panels for larger pump applications.

**FEATURES**
- Controls pumps up to 1 HP at 120 VAC and 2 HP at 230 VAC
- Adjustable pumping range of 1.75 to 48 inches (4.45 to 122 cm) with increased pumping rang up to 6 feet (1.8 meters) available
- Includes standard mounting clamps and boxed packaging

**OPTIONS**
This switch is available:
- for pump down or pump up applications as specified by part number
- with a 120 VAC or 230 VAC piggy-back plug
- without a plug for direct wiring (120 VAC units can only be used with 120 VAC applications within specified amp ratings. 230 VAC units can only be used with 230 VAC applications within specified amp ratings)
- in standard cable lengths of 15, 20, or 30 feet and 5, 6 or 10 meters (longer lengths available)

**PUMP DOWN SCHEMATIC**

UL Recognized for Water & Sewage

SJE RHOMBUS.
DOUBLE FLOAT® PUMP SWITCH - Mercury-activated, wide-angle switch designed to control pumps up to 1 HP at 120 VAC and 2 HP at 230 VAC.

### PUMPING RANGE
1.75 to 48 inches (4.45 cm to 122 cm), increased pumping range available. Call factory for quote.

### CABLE ATTACHED TO FLOAT HOUSING
Flexible 14 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE)

### CABLE ABOVE SPLICE
Flexible 14 gauge, 3 conductor (UL, CSA) SJTW, water-resistant thermoplastic

### FLOAT
3.38 inch diameter x 4.55 inch long (8.58 cm x 11.5 cm), high impact, corrosion resistant, PVC housing for use in sewage and non-potable water up to 140°F (60°C)

### ELECTRICAL
- **NOTE:** This switch must be used with pumps that provide integral thermal overload protection.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Part #</th>
<th>Description</th>
<th>Shipping Weight</th>
<th>List Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>1002022</td>
<td>15DFD1WP</td>
<td>1002030</td>
<td>15DFU1WP</td>
<td>3.63 lbs.</td>
<td>$214.06</td>
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<tr>
<td>1002024</td>
<td>15DFD2WP</td>
<td>1002032</td>
<td>15DFU2WP</td>
<td>3.64 lbs.</td>
<td>$219.55</td>
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<td>1002026</td>
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<td>1002034</td>
<td>15DFU1WOP</td>
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<td>1002028</td>
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<td>15DFU2WOP</td>
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<td>20DF2WP</td>
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<td>1002042</td>
<td>20DF1WOP</td>
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<td>20DFU1WOP</td>
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<td>1002044</td>
<td>20DF2WOP</td>
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<td>20DFU2WOP</td>
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<td>30DF1WP</td>
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<td>30DFU1WP</td>
<td>4.95 lbs.</td>
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<td>1002056</td>
<td>30DF1WOP</td>
<td>1002064</td>
<td>30DFU1WOP</td>
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</tr>
<tr>
<td>1002058</td>
<td>30DF2WOP</td>
<td>1002066</td>
<td>30DFU2WOP</td>
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<td>1002060</td>
<td>30DF2WOP</td>
<td>1002068</td>
<td></td>
<td>4.87 lbs.</td>
<td>$229.91</td>
</tr>
</tbody>
</table>

D = Pump Down  U = Pump Up  1 = 120 VAC  2 = 230 VAC  WP = With Plug  WOP = With Out Plug

**NOTE:** Descriptions are grouped by cable length measured in feet (15, 20, 30).

**PACKAGING:** Boxed - Standard

**ADDITIONAL CABLE:** Longer cable lengths available.

### SPECIFICATIONS
- **PUMPING RANGE:** 1.75 to 48 inches (4.45 cm to 122 cm), increased pumping range available. Call factory for quote.
- **CABLE ATTACHED TO FLOAT HOUSING:** Flexible 14 gauge, 2 conductor (UL, CSA) SJOW, water-resistant (CPE)
- **CABLE ABOVE SPLICE:** Flexible 14 gauge, 3 conductor (UL, CSA) SJTW, water-resistant thermoplastic
- **FLOAT:** 3.38 inch diameter x 4.55 inch long (8.58 cm x 11.5 cm), high impact, corrosion resistant, PVC housing for use in sewage and non-potable water up to 140°F (60°C)

### ELECTRICAL

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Max. Pump Run Current</th>
<th>Max. Pump Start Current</th>
<th>Recommended Pump HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 VAC</td>
<td>15 amps</td>
<td>55 amps</td>
<td>1 HP or less</td>
</tr>
<tr>
<td>230 VAC</td>
<td>12 amps</td>
<td>35 amps</td>
<td>2 HP or less</td>
</tr>
</tbody>
</table>

**NOTE:** This switch must be used with pumps that provide integral thermal overload protection.

### OTHER INFORMATION
- **PUMP DOWN** is normally open contacts for emptying.
- **PUMP UP** is normally closed contacts for filling.
- **DIRECT WIRING:**
  - **120 VAC** units used for direct wiring (without plug) can only be used with 120 VAC applications within specified amp ratings.
  - **230 VAC** units used for direct wiring (without plug) can only be used with 230 VAC applications within specified amp ratings.

SEE PRICE BOOK FOR PRICING.