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.

This mercury activated, wide-angle pump switch provides automatic control of pumps in non-potable water and 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 range up to 6 feet (1.8 meters) available.
- Includes standard mounting clamps and boxed packaging.
- UL Recognized for use in non-potable water and sewage.
- CSA Certified.
- Five-year limited warranty.

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 or 10 meters (longer lengths available).

SPECIFICATIONS
- 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
- FLOATS: 3.38 inch diameter x 4.55 inch long (8.58 x 11.56 cm) high impact, corrosion resistant, PVC housing for use in sewage and non-potable water up to 140°F (60°C)
- MERCURY SWITCH: mercury-to-mercury contacts, hermetically sealed in a steel capsule

ELECTRICAL:
120 VAC 50/60Hz Single Phase:
- Maximum Pump Running Current: 15 amps
- Maximum Pump Starting Current: 55 amps
- Recommended Pump HP: 1 HP or less

230 VAC 50/60Hz Single Phase:
- Maximum Pump Running Current: 12 amps
- Maximum Pump Starting Current: 35 amps
- Recommended Pump HP: 2 HP or less

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

SEE REVERSE SIDE FOR ORDERING INFORMATION.
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>PUMP DOWN</th>
<th>PUMP UP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part#</td>
<td>Description</td>
</tr>
<tr>
<td>1002022</td>
<td>15DFD1WP</td>
</tr>
<tr>
<td>1002024</td>
<td>15DFD2WP</td>
</tr>
<tr>
<td>1002026</td>
<td>15DFD1WOP</td>
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<tr>
<td>1002028</td>
<td>15DFD2WOP</td>
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<td>20DFD1WP</td>
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<tr>
<td>1002040</td>
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<td>20DFD1WOP</td>
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<tr>
<td>1002044</td>
<td>20DFD2WOP</td>
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<td>1002054</td>
<td>30DFD1WP</td>
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<td>1002056</td>
<td>30DFD2WP</td>
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<tr>
<td>1002058</td>
<td>30DFD1WOP</td>
</tr>
<tr>
<td>1002060</td>
<td>30DFD2WOP</td>
</tr>
</tbody>
</table>

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

### OPTIONS

**PACKAGING**
- Boxed - standard
- Bagged - optional
- Bulk - optional

**ADDITIONAL CABLE**
Longer cable lengths available. Please call for details.

### 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.

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Call or fax your order!
1-888-DIAL-SJE (1-888-342-5753) • Fax 218-847-4617

Product offering and pricing are subject to change without notice. Please visit [www.sjerhombus.com](http://www.sjerhombus.com) for the most current information.