

# 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.

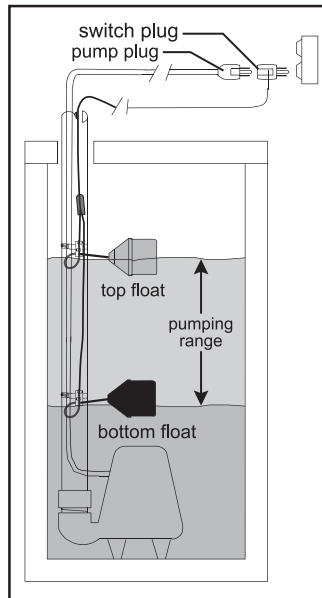
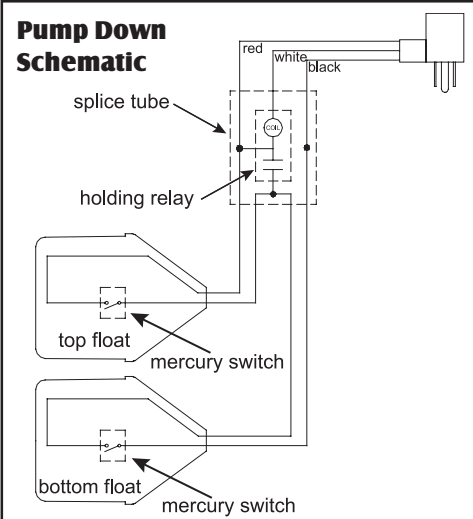
The holding relay eliminates pump chatter in turbulent conditions allowing the **Double Float®** pump switch to operate relay control panels for larger pump applications.



Patent Pending

## 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.
- Three-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).

SEE BACKSIDE FOR PRICING/ORDERING INFORMATION.

Double Float® pump switch is a registered trademark of SJE-Rhombus® Controls.

## 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.



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# 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.

## PRICING/ORDERING INFORMATION

PUMP DOWN ↓		PUMP UP ↑		Suggested List Price	Shipping Weight
Part #	Description	Part #	Description		
1002022	15DFD1WP	1002030	15DFU1WP	\$110.63	3.63 lbs.
1002024	15DFD2WP	1002032	15DFU2WP	\$113.61	3.64 lbs.
1002026	15DFD1WOP	1002034	15DFU1WOP	\$104.09	3.55 lbs.
1002028	15DFD2WOP	1002036	15DFU2WOP	\$106.28	3.51 lbs.
1002038	20DFD1WP	1002046	20DFU1WP	\$114.76	4.04 lbs.
1002040	20DFD2WP	1002048	20DFU2WP	\$117.74	4.08 lbs.
1002042	20DFD1WOP	1002050	20DFU1WOP	\$108.23	3.97 lbs.
1002044	20DFD2WOP	1002052	20DFU2WOP	\$110.40	4.01 lbs.
1002054	30DFD1WP	1002062	30DFU1WP	\$123.59	4.95 lbs.
1002056	30DFD2WP	1002064	30DFU2WP	\$126.56	4.99 lbs.
1002058	30DFD1WOP	1002066	30DFU1WOP	\$117.16	4.86 lbs.
1002060	30DFD2WOP	1002068	30DFU2WOP	\$119.23	4.87 lbs.

## OPTIONS

### PACKAGING

**Boxed** - Standard  
**Bagged** - Specify and deduct 40¢ from list price.

**Bulk** - Specify and deduct 60¢ from list price.

### ADDITIONAL CABLE

Additional cable length over 30 feet is available at 70¢ per foot (list price).

UL Recognized for Water & Sewage



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).

## 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:

Voltage 50Hz/60Hz Single Phase	Max. Pump Run Current	Max. Pump Start Current	Recommended Pump HP
120 VAC	15 amps	55 amps	1 HP or less
230 VAC	12 amps	35 amps	2 HP or less

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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PUMP SWITCHES (MERCURY)

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