

# Mercury Control Level Switch

An adjustable stabilization weight is fastened to the cable by means of a nylon 66 strain relief connector and bushing.

UL and CSA approved constant service cord approved for wet well applications (16/2)

A funnel mouth cable entry on the bottom of the weight allows long radius bending of the cable to virtually eliminate wire flexing fatigue.

Internal stabilization weight keeps the switch bounce to a minimum in turbulent wet wells. This will reduce contact chatter and extend switch life.

Dense polyurethane foam float molded under pressure, ensures total penetration and water-proof encapsulation.

The mercury switch is custom made for level switch applications. The contacts and mercury slug is an encapsulated envelope and are designed to withstand contactor inrush current without burning or bounce. (Switch rated at 2 amp continuous 115/230 volt.)

The internal weight allows for a longer radius bend which extends cord life and allows for a more positive switching even when floating debris is in the basin.

Available in normally open or normally closed applications.

## SPECIFICATIONS

**External Weight** - External weight is adjustable, cast iron, painted and fastened to cable by means of nylon 66 strain relief connector and bushing. The weight has a funnel mouth cable entry on the bottom which allows for a long radius bending of the cord that virtually eliminates wire flexing fatigue. The weight is approx. 28 oz. ( 2 1/4" x 1 1/5").

**Internal Weight** - Internal stabilization weight keeps switch bounce to a minimum in turbulent, wet wells. This can reduce contact chatter and extend pump and switch life. The internal weight allows for a long radius bend which extends cord

life and allows for a more positive switching even when floating debris is in the basin.

**Cord** - The cord is 16/2 SJ00W (CPE) UL and CSA approved for wet well application. Constant service, 300 volt, black and length required.

**Switch** - Mercury switch is custom made for level control switch applications. The contacts and mercury encapsulated slugs are designed to withstand contactor inrush current without burning or bounce. The switch is filled with high grade mercury, filled with inert gas and hermetically sealed. The proper amount of mercury is carefully

controlled to ensure maximum contact rating without shock. The mercury contacts are contained in a high encapsulated envelope which ensures that no wetting of the switch walls will occur (wetting occurs when mercury adheres to the wall of the switch envelope allowing small amounts of current to be conducted, common in steel type switches). 2 amp rating continuous 115/230 volt.

**Float** - The float is a dense, solid, polyurethane material molded under pressure which ensures a total penetration and waterproof encapsulation. The color is orange and the total displacement is 15 oz. approx. 3" x 5" pear shaped.