



JIM MURRAY, INC.

Dependable Sump Pumps

N116 W18455 Morse Drive • Germantown, Wisconsin 53022-2441 • Phone: 262-253-1353

FLOAT SWITCH Model #MFS

SAFETY INFORMATION

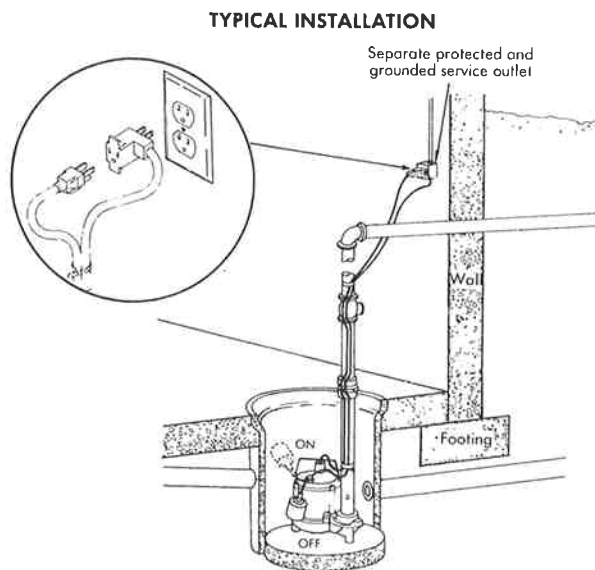
1. Always unplug sump pump from its power source before handling, in order to reduce the risk of electrical shock.
2. This switch is supplied with a grounding conductor and a grounding type attachment plug. To reduce risk of electrical shock, be certain that grounding conductor is connected only to a properly grounded, grounding type receptacle.
3. Do not plug this product in while you are standing in water or on a wet surface.
4. **Caution** — installation and testing of electrical circuits should be performed by a qualified electrician.

GENERAL INFORMATION

This float type switch is hermetically sealed, the float is attached to a multi-conductor cord, which is connected in series with the pump it will control.

The amount of water pumped can be determined by the length of cord between the float and point of attachment.

As the water level rises or falls in the sump pit, the float changes angle until the mercury switch makes or breaks the circuit.



- Float can be tethered to the discharge pipe or pump.
 - Inches of water pumped are dictated by the float tether length.
 - Tether cord must be at least 3.5 inches long.
- #1** Allow for enough clearance to ensure float will swing free and not hang up on sump pit, pipe or cords.
- #2** This pump switch is recommended for use on pumps of ½ h.p. or less, rated 120V A.C. 60 Hz, single phase, maximum pump running current 13 amps.
- #3** This pump switch is not recommended for turbulent applications or for controlling relays or solenoids.

INSTALLATION

On many sump pumps with a mercury float type switch, this is a standard replacement part and installation can be performed by removing the existing switch and replacing it with the new mercury float switch. Enclosed is a cable clamp for use in mounting the switch to the pump.

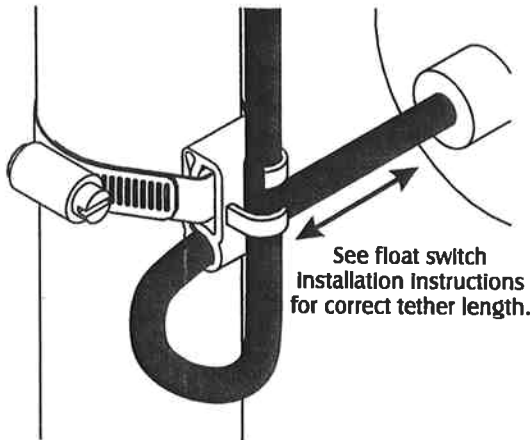
On other types of sump pumps where a different type of switching method is used, this switch may be used in place of the existing switch by bypassing the existing switch to convert the pump to manual operation. Then use the new mercury float switch to act as an automatic control. Included in this switch kit is an adjustable nylon pipe clamp for use in fastening the cord of the switch to the pump discharge pipe.

Tape pump and switch cords to the discharge pipe with electrician's tape. This will protect the cords from damage and will prevent power cords from interfering with the float switch.

After installation add enough water to the sump pit to allow pump to run its normal cycle. **Check to see that the float rises and falls without being obstructed.**

SJE-Rhombus® Cable Mounting Clamp

Designed specifically for use with SJE-Rhombus® float switches.



1. Determine the required cord tether length (see float switch installation instructions).
2. Place the cord into the clamp as shown in the figure.
3. Secure the clamp to the discharge pipe as shown.

NOTE: Do not install cord under hose clamp.

4. Tighten the hose clamp using screwdriver. Over-tightening may result in damage to the plastic clamp. Make sure the float cable is not allowed to touch the excess hose clamp band during operation.
5. Check installation. Allow system to cycle to insure proper operation.

NOTE: All hose clamp components are made 18-8 stainless steel. See your local SJE-Rhombus® supplier for replacements.

SJE CONTROLS
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