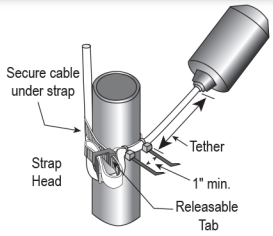
General Switch Data

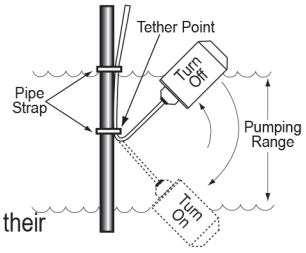
90° Mechanical Switch Tether Data
Pumping Range Increases as Tether Length Increases

Dimension					
Tether Length	6	9	12	15	18
Approximate Pump Range	10	14	18	23	28



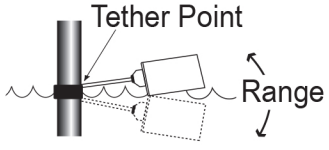
Secure tether tie firmly in place. Float cord should not slip in either direction. Do not allow cords or other items deter free movement of switches.
Always take into consideration the gauge of the cord on the switch when determining the tether length.
Always test switch to assure it is working correctly in its intended application.

Normally Closed (Pump Up)



Wide Angle Switch 90° Float Switches
Main Usage: Pumps
A 45° angle from horizontal is required to activate the micro switch. A full 90°'s is required to transition from an "ON" position to an "OFF" position. Always check angle, amp rating, and cord specifications when applying a switch to a particular job.

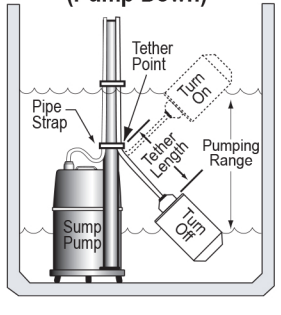
Narrow Angle Float Switches
Main Usage: Alarms and Controls • 30° or Less are usually referred to as Narrow Angle Switches
A shorter angle from horizontal is required to activate the switch. These switches tend to have a low amp rating due to their intended use. Always check angle, amp rating, and cord specifications when applying a switch to a particular job.



Narrow Angle Switch

Vertical Switches
1. Use to operate submersible or effluent pumps.
2. Not recommended for sewage applications.
3. Use in areas where space is a problem or in pump chambers 12 " or larger in diameter.
4. Only use in vertical position. Do not bend rod. Float needs to move freely along the length of the rod.
5. Keep rod free of debris and mineral build-up.
6. Adjust pump range by sliding fittings up or down rod accordingly.

Normally Open (Pump Down)



SPDT - Single Pole Double Throw Switches
For **Pump Down** (Normally Open) use Black and Red Wire.
For **Pump Up** (Normally Closed) use Black and White Wire.

On SPDT switches, insulate the unused black or red wire with wire nuts.

CAUTION:
Disconnect power before product installation, service or maintenance.

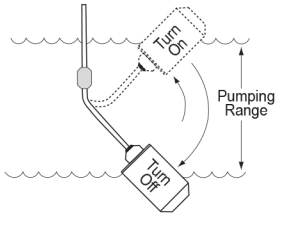
Qualified service personnel must install and service these products according to applicable National Electrical Codes and Plumbing Codes, and local codes. The strictest code should be followed.

Immediately replace any product where the cord or housing of switch has become damaged.

In extremely high temperature conditions, secure switches snuggly and routinely check. Readjust as necessary to maintain correct placement.

Always dispose of used switches appropriately.

Cable Weight Tether



Install this product in accordance with Plumbing Regulations, Local and National Electrical Codes

Check and Maintain Your Switches
1. Do not allow sludge or debris to collect on float. This weights float down and does not allow it to work correctly.
2. Adjust float to correct level in tank.
3. As with all installations periodically check and maintain your system. This includes checking the float position and removing debris if needed.
4. Properly splice and seal any wires so a short does not occur and liquid can not infiltrate switch.