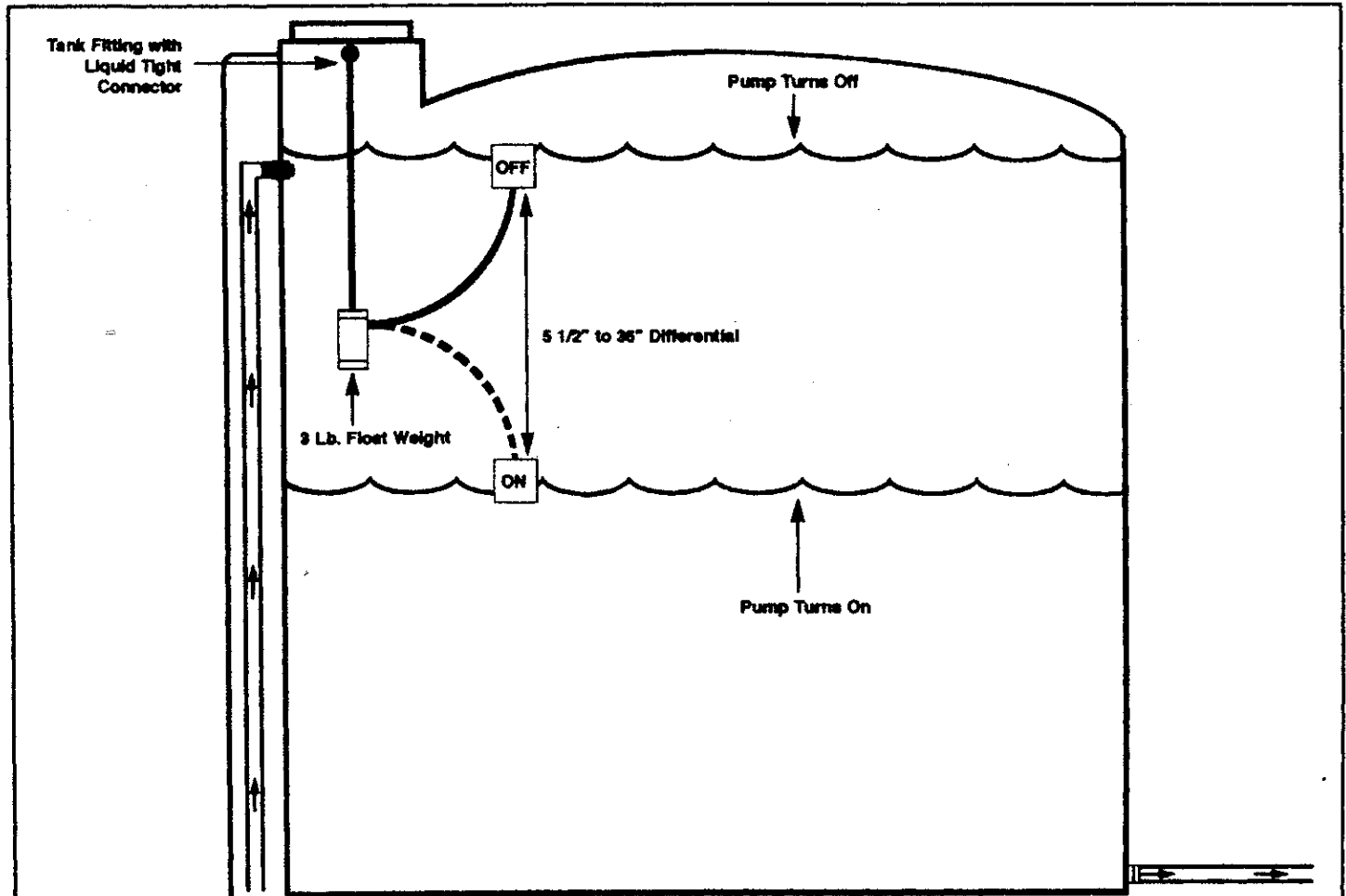


Description:
Installation of Float Switch

Technical Assistance:

1-800-655-9100



(10PMU Up Float Switch shown)

Installation Instructions:

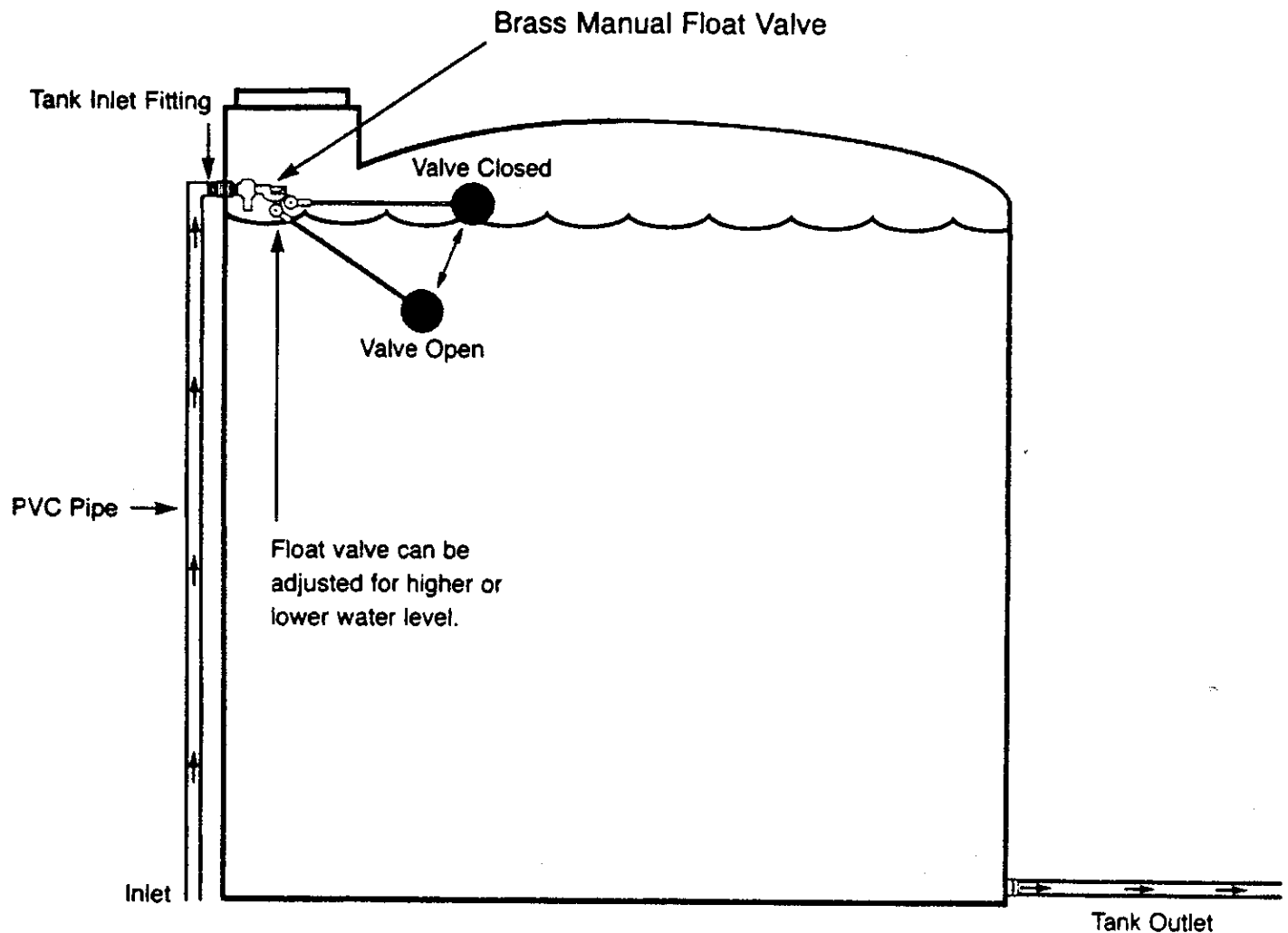
- 1) Install Tank Fitting and liquid Tight Connector. Try and locate away from inlet so incoming water turbulence will not affect float operations.
- 2) Feed wire through the liquid tight connector / Tank Fitting and tighten.
- 3) Attach the 3 Lb. Float Switch Weight and adjust for proper On / Off positions.
- 4) Adjust Liquid Tight Connector until switch works at desired levels.
- 5) American Tank Co. recommends a Contactor / Relay on all applications.

NOTE: See HOW-TO Installation of Contactor Relay and Float Switch Spec Sheet.

Description:
Float Valve Installation

Technical Assistance:
1-800-655-9100

Float Valve Installation



Instructions:

1. Thread the Brass Float Valve into the back side of Tank Inlet Fitting. Be sure to use teflon tape or paste on all pipe threads. (Note: Tank Fitting must be Thread x Thread)
2. Loosen wing nut and adjust Float Rod for proper water level.
3. Check for proper operation.

Catalog No: 400.4005

Description: Float Switch - Pump Up

Material: N/A

Weight: N/A

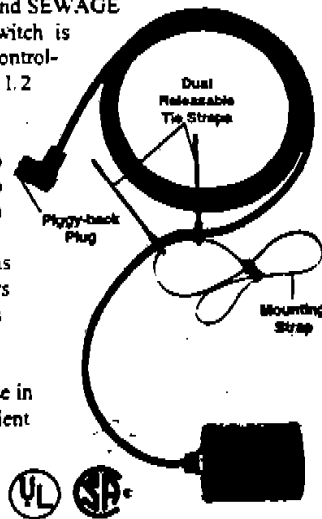
Technical Assistance:
1-800-655-9100

SJE PUMPMASTER Pump Switch

A wide angle mechanical pump switch designed for dependability and performance.

APPLICATIONS

The mechanically activated SJE PumpMaster® pump switch provides automatic control of pumps in WATER and SEWAGE applications. This switch is capable of directly controlling pumps of up to 1.2 HP 120V and 1 HP 230V. The SJE PumpMaster® pump switch is designed to efficiently operate in applications with limited space, such as small sump chambers and laundry trays, as well as in large tank applications, and is recommended for use in both calm and turbulent conditions.



ADVANTAGES

- Mechanically activated
- UL Listed for use in water and sewage
- CSA Certified
- Heavy duty contacts
- Not sensitive to rotation
- Not sensitive to turbulence
- Adjustable pumping range from 5.5 inches to 36 inches
- UL & CSA horsepower rated
- Two year limited warranty

U.S. PATENT Nos. 5,087,801 & 5,142,108
CANADIAN PATENT Pending

SPECIFICATIONS

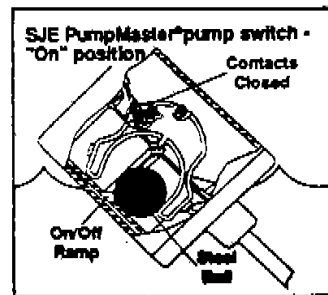
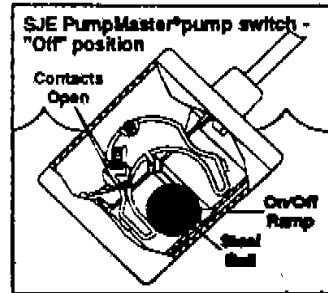
CORD: Flexible 16 gauge, 2 conductor SJOW-A (UL), SJOW (CSA) water-resistant, (CPE) Neoprene.
FLOAT: 3.05 inch (7.75cm) diameter x 3.56 inch (9.07cm) long, impact resistant, non-corrosive PVC plastic for use in liquids up to 140°F (60°C).

ELECTRICAL:

Voltage 60Hz, Single Phase	Maximum Pump Running Current	Locked Rotor* Amps	Recommended Pump HP
120 VAC	13 amps	85	1.2 HP or less
230 VAC	13 amps	85	1 HP or less

* Tested per UL 508 Industrial Control Equipment

NOTE: This pump switch must be used only with pumps equipped with integral thermal overload protection.



NOTES: Model WCP (for direct wiring) may be used in either 120V or 230V applications within specified amp ratings. Pump Down is a Normally Open switch, Pump Up is a Normally Closed switch.

Catalog No: 400.4005
 Description: Float Switch - Pump Up
 Material: N/A Weight: N/A

Technical Assistance:
 1-800-655-9100

SJE PumpMaster® Pump Switch Installation Instructions

Figure A

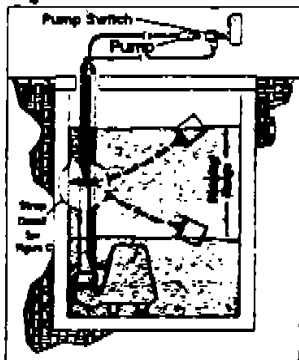
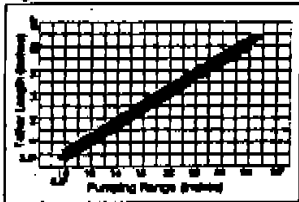


Figure B



The graph above is based on testing in non-hazardous conditions. USE ONLY AS A GUIDE. The solid black line represents average results. The gray line represents extremes. For applications requiring a higher length other than shown on the chart, consult the factory.

Figure C

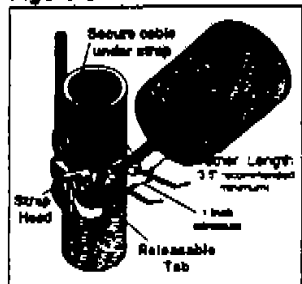
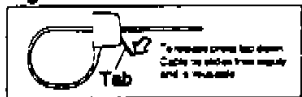


Figure D



WARNING: Turn off power source before installing or adjusting this device. Failure to turn off power could result in serious or fatal electrical shock.

- Read these instructions carefully.
- Check your local codes before installing. We recommend this product be installed in accordance with national and local electrical codes.
- Do not connect this product while you are standing on a wet or damp surface.
- Do not remove cord label from switch end.
- Retain these instructions with warranty card when installation is complete.

MOUNTING FLOAT

1. Determine the pumping range for your installation. See Figure A. Pumping range is controlled by the tether length. See Figure B.
2. Tighten the mounting strap around the discharge pipe keeping the float cable between the strap and pipe to help prevent slippage. Space the small ties approximately one inch apart. See Figure C.
3. Lock the releasable tab of the mounting strap by running the remaining strap between the releasable tab and head, pulling tightly. Tuck the strap back through the head to complete installation. See Figure C.
4. Ties are releasable to permit readjustment. See Figure D.

PIGGY-BACK PLUG INSTALLATION

To avoid electrical hazards, follow these precautions:

- Electrical outlet must not be located in pump chamber.
 - Electrical outlet voltage, piggy-back plug voltage, and pump plug voltage must match. (All 120V or 230V)
1. Plug piggy-back plug into outlet.
 2. Plug pump into piggy-back plug.

DIRECT WIRE INSTALLATION

NOTE: Piggy-back plug may be removed for direct wire option. See Figure E.

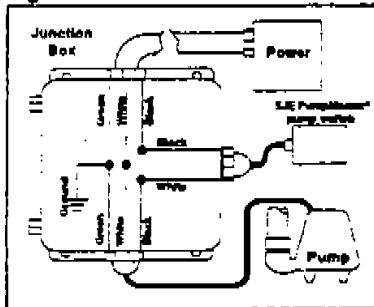
Check your installation. Allow pump to cycle several times to insure proper pumping range.

CAUTION

In a 230V pump installation, one side of the line going to the pump is always "hot". This condition exists regardless of whether the float switch is on or off.

WP (with plug) INSTALLATIONS - Remove piggy-back plug from

Figure E



receptacle **BEFORE** installing or servicing pump and/or switch. **WOP (without plug) INSTALLATIONS** - To avoid hazards when installing or servicing, install a double pole disconnect near pump installation.

Catalog No: **N/A**
 Description: **Pump Switch Features**
 Material: **N/A** Weight: **N/A**

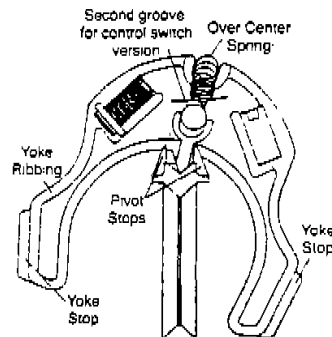
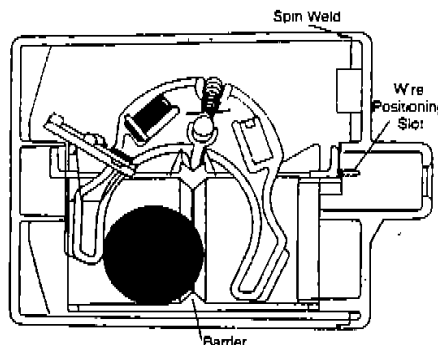
Technical Assistance:
1-800-655-9100

#3 The Unique Design

- The unique design works exceptionally well in turbulent conditions, helping to avoid pump chatter.
- The unique design also allows this switch to work in many applications in which the competitors' switches will not work.

Following are further features:

- The lips on the cover provide support and indexing for spin welding which is used on this switch instead of the solvent welding used in the past. **Spin welding** actually fuses or melts the two pieces into one.
- A **wire positioning slot** provides for the spreading of the conductors. Along with stripping the conductors, this makes the epoxy wick along the cable fillers, thus preventing any moisture from entering the switch.
- A **Barrier** provides the pumping range by giving this switch a full 90 degree operating angle. Most competitors' switches have an 85 degree angle. The barrier also provides a nice 45 degree off, which makes it easier to install.
- A **Switch body locator key** is used to align the switch body during manufacturing and is used to keep the switch body from rotating once assembled.
- The **overcenter spring** provides the omni-directional movement of this switch, which simply means it can work upside down. Not all switches can do this. This also enables the switch to keep the same differential no matter what the orientation.
- **Pivot stops** prevent the yoke from jumping out of the pivot point even if the switch is subjected to an abnormal blow.
- The **yoke** is made of a polycarbonate to deflect the heat caused by the contacts. The second groove is built in for the control switch version. The extra ribbing along the edges provides extra reinforcement to prevent any possible breakage of the legs. On each leg there are yoke stops which prevent the legs from breaking from a sharp blow. The energy produced by a sudden blow is transmitted to the cup and cover via these yoke stops, thus preventing any breakage.



American Tank Co.**PRODUCT SPEC SHEET Page 2 of 2**Catalog No: *N/A*Description: **Pump Switch Features**Material: *N/A*Weight: *N/A*

Technical Assistance:
1-800-655-9100

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