Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

SJE Rhombus 1002732

SJE Rhombus PumpMaster 1002732 Pump Switch User Manual

Model: 1002732

1. Introduction

The SJE Rhombus PumpMaster 1002732 is a reliable pump switch designed for automatic pump control in various water and sewage applications. This float switch is specifically configured for "pump down" (normally open) operations, meaning it activates the pump when the liquid level rises to a set point and deactivates it when the level falls. It is suitable for controlling pumps up to 1/2 HP at 120 VAC and 1 HP at 230 VAC. Its design ensures consistent performance even in turbulent conditions, as it is not sensitive to rotation or turbulence.
This manual provides essential information for the safe installation, operation, and maintenance of your PumpMaster 1002732 pump switch.

2. Safety Information

WARNING: Failure to follow these safety instructions could result in electric shock, fire, serious injury, or death.

- Always disconnect power to the pump circuit before installing, servicing, or removing the pump switch.
- Installation and wiring must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Ensure the pump switch is properly grounded.
- Do not use this switch in hazardous locations where flammable liquids or gases are present.
- Verify that the voltage and horsepower ratings of your pump do not exceed the switch's capabilities (1/2 HP at 120 VAC, 1 HP at 230 VAC).
- Keep children away from the pump and switch installation area.

3. Package Contents

Verify that all items are present before beginning installation:

- SJE Rhombus PumpMaster 1002732 Pump Switch with 20-foot cord
- Standard mounting clamp

4. Setup and Installation

Proper installation is crucial for the reliable operation of the pump switch. If you are unsure about any step, consult a qualified professional.

4.1 Mounting the Switch

1. Determine the desired "on" and "off" levels for your pump. The switch activates the pump when the liquid level rises to the switch's horizontal position and deactivates it when the level falls below the switch's horizontal position.
2. Using the provided mounting clamp, secure the switch cord to a discharge pipe, conduit, or other suitable anchor point. Ensure the clamp is positioned so that the switch can freely float and pivot.
3. Adjust the length of the cord between the clamp and the switch to achieve the desired pumping range. The adjustable pumping range is 18 - 91 cm (7 - 36 inches).
4. Ensure the switch has a clear path of travel and will not interfere with other components in the tank or basin.



Figure 1: SJE Rhombus PumpMaster 1002732 pump switch. This image shows the float body, the attached 20-foot electrical cord, and the standard mounting clamp used for securing the cord to a pipe or conduit.

4.2 Electrical Wiring

IMPORTANT: All wiring must comply with local and national electrical codes. Consult a qualified electrician.

- The PumpMaster 1002732 is a "normally open" (pump down) switch. This means the switch contacts are open (pump off) when the float is in the down position and close (pump on) when the float is in the up position.
- Connect the pump switch in series with the pump's power supply.

- Ensure proper voltage (120 VAC or 230 VAC) and horsepower (up to 1/2 HP at 120 VAC, up to 1 HP at 230 VAC) compatibility.
- Make sure all electrical connections are secure and protected from moisture.

5. Operation

The SJE Rhombus PumpMaster 1002732 operates automatically based on liquid levels. In a "pump down" configuration:

- When the liquid level rises and lifts the float switch to its "up" position, the internal contacts close, completing the circuit and turning the pump ON.
- The pump will continue to operate, lowering the liquid level.
- When the liquid level drops and the float switch returns to its "down" position, the internal contacts open, breaking the circuit and turning the pump OFF.

The pumping range (the difference between the ON and OFF levels) is determined by the length of the cord between the mounting clamp and the float switch body.

6. Maintenance

The PumpMaster 1002732 is designed for minimal maintenance. However, periodic inspection is recommended to ensure reliable operation.

- **Visual Inspection:** Annually, or more frequently in demanding applications, visually inspect the switch and its cord for any signs of damage, wear, or corrosion. Check for cracks in the float housing or insulation damage on the cord.
- **Float Movement:** Ensure the float can move freely without obstruction. Remove any debris that might impede its movement.
- **Electrical Connections:** With power disconnected, check electrical connections for tightness and corrosion.
- **Cleaning:** If necessary, clean the float body with water to remove any buildup that might affect its buoyancy or movement.

WARNING: Always disconnect power before performing any maintenance.

7. Troubleshooting

If you experience issues with your pump switch, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Pump does not turn ON when liquid level rises.	• No power to pump/switch. • Switch float obstructed. • Faulty wiring connection. • Defective switch.	• Check circuit breaker/power supply. • Clear any obstructions around the float. • Inspect and secure all wiring connections (power off). • Test switch continuity (power off); replace if defective.
Pump does not turn OFF when liquid level falls.	• Switch float obstructed in "up" position. • Switch wired incorrectly (e.g., as normally closed). • Defective switch (contacts stuck closed).	• Clear any obstructions around the float. • Verify wiring for "normally open" (pump down) configuration. • Test switch continuity (power off); replace if defective.

Problem	Possible Cause	Solution
Pump cycles too frequently or not frequently enough.	• Incorrect pumping range setting.	• Adjust the cord length between the clamp and the float to achieve the desired pumping range (7-36 inches).

If problems persist after troubleshooting, contact SJE Rhombus customer support or a qualified service technician.

8. Specifications

Brand	SJE Rhombus
Model Number	1002732
Switch Type	Normally Open (Pump Down)
Voltage	120 VAC / 230 VAC
Horsepower (HP) Rating	1/2 HP at 120 VAC, 1 HP at 230 VAC
Pumping Range	Adjustable 18 - 91 cm (7 - 36 inches)
Cord Length	20 feet (6.1 meters)
Material	Cast Iron, Stainless Steel
Product Dimensions (Approx.)	12.7L x 10.2W x 10.2H centimetres (Float body only)
Certifications	Passed NSF Standard 61 protocol

Note: Specifications are subject to change without notice.

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official SJE Rhombus website. Keep your proof of purchase for warranty claims.
SJE Rhombus Contact Information: Please visit www.sjerhombus.com/contact/ for the most up-to-date contact details.

© 2023 SJE Rhombus. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B01J6INU8K

More documents and user manuals: **https://manuals.plus/**