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DEWIN DEWINiowgbse1v8

DEWIN 1/4" DC 24V High Pressure Switch User Manual

Model: DEWINiowgbse1v8

Product Overview

The DEWIN 1/4" DC 24V High Pressure Switch is a critical component for various water purification systems, including reverse osmosis (RO) systems, water purifiers, pure water machines, and water dispensers. Its primary function is to monitor water pressure and automatically control the booster pump, preventing damage and ensuring efficient operation. This switch is engineered to cut off power to the booster pump when the water tank reaches its full capacity or when the system pressure exceeds 0.25 MPa. This automatic shut-off mechanism safeguards the pump from dry running or excessive pressure, thereby extending its lifespan and maintaining system integrity.



Figure 1: Front view of the DEWIN 1/4" DC 24V High Pressure Switch, showing the HPS-2 label and quick-connect fittings.

Setup and Installation

The DEWIN High Pressure Switch is designed for simple and straightforward installation. Ensure all connections are secure and leak-free before operation.

Connection Steps:

1. **Water Line Connection:** Connect the 1/4" water lines to the quick-connect ports on the switch. Ensure the lines are inserted firmly until they click into place. One port is for the inlet from the pump, and the other is for the outlet to the pressure tank or system.
2. **Electrical Connection:** Connect the DC24V power supply to the electrical terminals on the switch. Observe proper polarity if indicated on the device or in your system's wiring diagram. This switch typically interrupts the power supply to the booster pump.



Figure 2: Side view illustrating the 1/4" quick-connect fittings for water line integration.

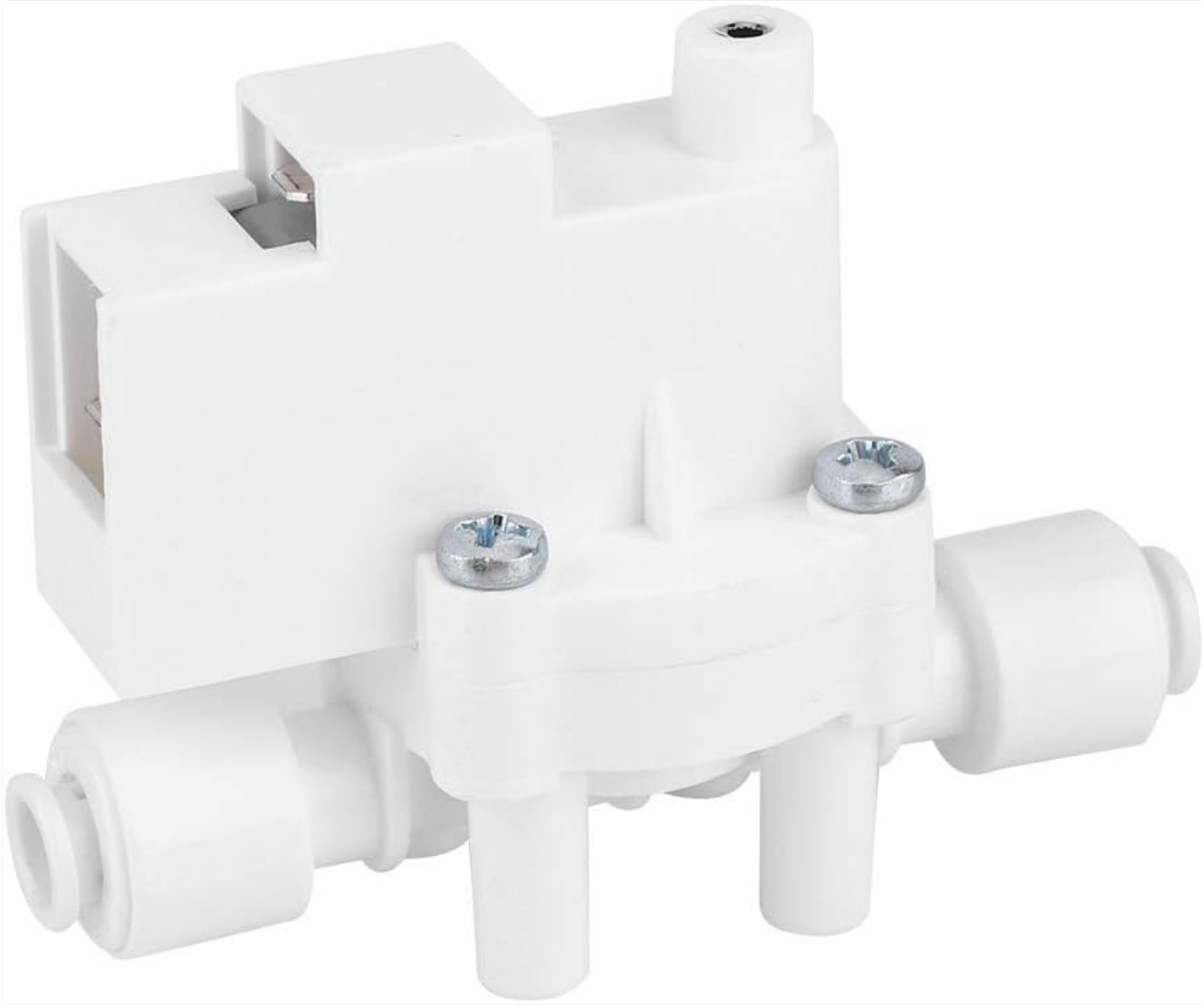


Figure 3: View of the electrical terminals for DC24V power connection.

Note: Always ensure the power supply is disconnected before performing any installation or maintenance to prevent electrical shock.

Operating Instructions

The DEWIN High Pressure Switch operates automatically based on the system's water pressure. Once installed and connected, it requires no manual intervention for its primary function.

Functionality:

- **Pressure Monitoring:** The switch continuously monitors the water pressure within the system.
- **Automatic Shut-off:** When the pressure reaches or exceeds 0.25 MPa (approximately 36.25 PSI), the switch activates, cutting off the power supply to the connected booster pump. This prevents over-pressurization and pump damage.
- **Pump Protection:** This mechanism is crucial for preventing the booster pump from running continuously when the storage tank is full, which can lead to overheating and premature failure.
- **Automatic Reset:** Once the pressure drops below the threshold (e.g., when water is drawn from the tank), the switch will automatically reset, allowing the booster pump to resume operation as needed.

Maintenance

The DEWIN High Pressure Switch is designed for durability and minimal maintenance. However, periodic checks can help ensure its long-term reliability.

- **Visual Inspection:** Regularly inspect the switch and its connections for any signs of leaks, corrosion, or physical damage.
- **Connection Integrity:** Ensure that all water line and electrical connections remain secure. Loose connections can lead to leaks or intermittent operation.
- **Cleanliness:** Keep the exterior of the switch clean and free from dust or debris.

Note: Do not attempt to disassemble the switch. If the unit is faulty, it should be replaced.

Troubleshooting

If you experience issues with your DEWIN High Pressure Switch, consider the following common troubleshooting steps:

- **Pump Not Shutting Off:**
  - Check if the water tank is actually full.
  - Verify that the system pressure is reaching 0.25 MPa. A faulty pressure gauge or a system unable to build sufficient pressure could be the cause.
  - Inspect the electrical connections to the switch and pump. Ensure they are secure and correctly wired.
  - The switch itself might be faulty and require replacement.
- **Pump Not Turning On:**
  - Ensure there is sufficient water demand to lower the system pressure below the switch's cutoff point.
  - Check the DC24V power supply to the switch and pump.
  - Verify all electrical connections are secure.
  - The switch might be stuck in the 'off' position or be faulty.
- **Leaks at Connections:**
  - Ensure the 1/4" water lines are fully inserted into the quick-connect fittings.
  - Check for damaged O-rings or cracked fittings. Replace if necessary.

If these steps do not resolve the issue, contact customer support for further assistance.

Specifications

Feature	Specification
Model	DEWINiowgbse1v8
Port Size	1/4"
Action Pressure	0.25 MPa (approx. 36.25 PSI)
Voltage	DC24V
Color	White
Material	Metal, Plastic

Feature	Specification
Item Weight	0.05 Kilograms (1.76 ounces)
Style	Submersible
Power Source	DC Power Supply

Warranty and Support

DEWIN provides a **24-month worry-free warranty** for this High Pressure Switch. This warranty covers defects in materials and workmanship under normal use.
For any issues, questions, or warranty claims, please contact our dedicated support team. We are committed to providing responsive customer service and will endeavor to respond to your inquiries within 24 hours.
Please refer to your purchase documentation for specific contact details or visit the official DEWIN website for support information.

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