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## Balboa Water Group 30408

# Balboa Water Group Pressure Switch 30408 User Manual

Model: 30408 | Brand: Balboa Water Group

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Balboa Water Group Pressure Switch Model 30408. This device is designed to monitor pressure within a system, typically in hot tubs or spas, and activate or deactivate connected components based on detected pressure levels. It features a 3 Amp current rating, 1/8" MPT (Male Pipe Thread) connection, and SPST (Single Pole, Single Throw) terminal configuration.

## 2. SAFETY INFORMATION

**WARNING: Electrical shock hazard. Always disconnect power before installing or servicing this device.**

- Installation should only be performed by a qualified electrician or service technician in accordance with all local and national electrical codes.
- Ensure the power supply to the equipment is completely disconnected and locked out before beginning any work.
- Verify that the pressure switch specifications (3A, SPST) are compatible with your system's requirements.
- Do not exceed the specified current rating of 3 Amps.
- Protect the switch from physical damage and extreme temperatures.

## 3. PRODUCT COMPONENTS AND OVERVIEW

The Balboa Water Group Pressure Switch 30408 consists of a pressure-sensing diaphragm, an adjustable activation mechanism, and electrical terminals for connection. Below are images illustrating the various aspects of the switch.



Figure 3.1: Top-down view of the Balboa Water Group Pressure Switch 30408, showing the main body and electrical contacts.



Figure 3.2: Side view of the pressure switch, highlighting the electrical terminals labeled NO (Normally Open), NC (Normally Closed), and C (Common). This model is SPST, typically using C and NO.



Figure 3.3: Another side view, displaying the model number (3158-EH) and the pressure adjustment dial (black gear-like component).



Figure 3.4: Close-up top view of the electrical spade terminals for wiring connections.



Figure 3.5: Bottom view of the pressure switch, showing the 1/8" MPT (Male Pipe Thread) for connection to the plumbing system.

## 4. INSTALLATION AND SETUP

### 4.1 Pre-Installation Checks

- Ensure the system is depressurized and drained if necessary.
- Confirm the new pressure switch matches the specifications of the original part.
- Gather necessary tools: pipe sealant tape or compound, wrench, wire strippers, screwdriver.

### 4.2 Mechanical Installation

1. Apply a suitable pipe sealant (e.g., PTFE tape or pipe thread compound) to the 1/8" MPT threads of the pressure switch.
2. Carefully thread the pressure switch into the designated port on your hot tub heater or plumbing manifold.
3. Tighten securely with a wrench, but do not overtighten, as this can damage the switch or the plumbing.

### 4.3 Electrical Wiring

The 30408 is an SPST (Single Pole, Single Throw) switch. It typically operates as Normally Open (NO), closing the circuit when sufficient pressure is detected.

1. Identify the Common (C) and Normally Open (NO) terminals on the switch (refer to Figure 3.2).
2. Connect the appropriate electrical wires from your control system to these terminals. Ensure connections are secure and free from corrosion.
3. Double-check all wiring against your equipment's specific wiring diagram.

#### 4.4 Pressure Adjustment

The pressure activation point can be adjusted using the black gear-like dial on the switch (refer to Figure 3.3). Turning the dial clockwise typically increases the pressure required to activate the switch, while turning it counter-clockwise decreases it. Consult your equipment's manual for the recommended pressure setting.

### 5. OPERATION

Once installed and properly adjusted, the Balboa Water Group Pressure Switch 30408 operates automatically. When the system's pressure reaches or exceeds the set point, the switch will close its internal contacts, allowing electrical current to flow to the connected component (e.g., a heater or pump). If the pressure drops below the set point, the contacts will open, interrupting the circuit and deactivating the component. This mechanism serves as a safety device to prevent equipment from running dry or under insufficient flow conditions.

### 6. MAINTENANCE

- **Regular Inspection:** Periodically inspect the switch and its connections for any signs of corrosion, damage, or leaks.
- **Cleanliness:** Keep the area around the switch clean and free from debris.
- **Functionality Check:** If your system experiences issues related to water flow or heating, verify the pressure switch's operation by observing if it activates/deactivates correctly with changes in water pressure (e.g., by turning pumps on/off).
- **No User-Serviceable Parts:** The internal components of the pressure switch are not user-serviceable. Do not attempt to disassemble the unit.

### 7. TROUBLESHOOTING

If your system is not functioning as expected, consider the following troubleshooting steps related to the pressure switch:

- **Heater Not Activating:**
  - Check for sufficient water flow. Low water levels, clogged filters, or air locks can prevent adequate pressure.
  - Verify the pressure switch adjustment. It might be set too high.
  - Inspect wiring for loose or corroded connections.
  - Test the switch continuity with a multimeter (with power disconnected). If it doesn't close with pressure, it may be faulty.
- **Heater Always On/Off (Incorrectly):**
  - The switch may be stuck in an open or closed position.

- Check for debris inside the pressure port.
- Ensure the pressure adjustment is correct.

- **Leaks:**

- Check the threaded connection for proper sealant application and tightness.
- If the switch itself is leaking, it indicates internal damage and requires replacement.

If troubleshooting does not resolve the issue, contact a qualified service technician.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	30408
Brand	Balboa Water Group
Current Rating	3 Amps
Connection Type	1/8" MPT (Male Pipe Thread)
Terminal Type	SPST (Single Pole, Single Throw)
Operation Mode	ON-OFF (Pressure Activated)
Product Dimensions	2.05 x 2.8 x 1.75 inches
Weight	2.72 ounces
UPC	682698987100

## 9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided with your purchase or contact Balboa Water Group directly. Warranty terms typically cover manufacturing defects for a limited period.

For technical support or further assistance, please contact your product supplier or visit the official Balboa Water Group website. Always provide your product model number (30408) when seeking support.

Balboa Water Group Official Website: [www.balboawatergroup.com](http://www.balboawatergroup.com)