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Anchilly G1/8 Steam Coffee Machine Pressure Switch

Anchilly G1/8 Steam Coffee Machine Pressure Switch Instruction Manual

Model: G1/8 Steam Coffee Machine Pressure Switch

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Anchilly G1/8 Steam Coffee Machine Pressure Switch. Please read this manual thoroughly before use to ensure safe and efficient operation and to prevent damage to the product or connected equipment.
The Anchilly G1/8 Steam Coffee Machine Pressure Switch is designed to regulate pressure within steam coffee machines and steam foam machines, ensuring optimal performance and safety by controlling the steam generation process based on detected pressure levels.

2. Safety Information

- **Electrical Safety:** Ensure the coffee machine is disconnected from the power supply before installing or servicing the pressure switch. All electrical connections should be performed by a qualified technician.
- **Pressure Safety:** This device operates under pressure. Incorrect installation or tampering can lead to leaks or system failure. Always ensure proper sealing and secure connections.
- **Compatibility:** Verify that this G1/8 pressure switch is compatible with your specific coffee or steam foam machine model before installation.
- **Temperature:** The switch is designed for specific operating temperatures. Do not expose it to temperatures outside its specified range.
- **Handling:** Handle the pressure switch with care to avoid damaging its sensitive internal components.

3. Product Overview

The Anchilly G1/8 Steam Coffee Machine Pressure Switch is a critical component for maintaining desired pressure levels in steam-generating appliances. It typically consists of a pressure-sensing diaphragm connected to an electrical microswitch.

Figure 3.1: Front view of the Anchilly G1/8 Steam Coffee Machine Pressure Switch. This image shows the brass threaded connection at the bottom, the metallic pressure housing, and the black microswitch assembly with electrical terminals at the top.



Figure 3.2: Side view of the pressure switch, highlighting its compact design. The text "Positive pressure" indicates its function in sensing positive pressure within the system.



Figure 3.3: Technical diagram illustrating the dimensions and internal components of the pressure switch. It includes details on the G1/8 thread, overall height, width, and the location of the positive pressure adjusting hole. The diagram also shows a table of pressure ranges and differential ranges for both positive and vacuum pressure models (QK-01A and QK-01F).

4. Specifications

Feature	Detail
Model	G1/8 Steam Coffee Machine Pressure Switch
Brand	Anchilly
Connection Thread	G1/8
Electrical Rating (Microswitch)	16A 250V~, 16A 1/2HP 125/250VAC, 0.6A 125VDC, 0.3A 250VDC
Temperature Rating	T130 (130°C)
Pressure Range (QK-01A Positive Pressure)	0.1-0.5bar, 0.5-2.0bar, 1.0-3.0bar, 1.5-4.0bar, 2.0-5.0bar, 3.0-8.0bar, 4.0-10bar (with varying differential ranges)
UPC	751591289601
ASIN	B0FVV5BV58

Note: Specific pressure ranges and differential values may vary based on the exact model variant (e.g., QK-01A for positive pressure, QK-01F for vacuum pressure). Refer to the technical diagram for detailed pressure range options.

5. Setup and Installation

Installation of the pressure switch should only be performed by individuals with appropriate technical knowledge and experience in appliance repair and electrical systems.

1. **Power Disconnection:** Ensure the coffee machine or steam foam machine is completely unplugged from the electrical outlet before beginning installation.
2. **Access:** Gain access to the internal components of the machine where the pressure switch is located. This may involve removing panels or covers.
3. **Removal of Old Switch (if applicable):** Carefully disconnect any electrical wires from the existing pressure switch. Note their positions for correct re-connection. Unscrew the old pressure switch from its threaded port. Be prepared for residual water or steam.
4. **Thread Preparation:** Apply appropriate thread sealant (e.g., PTFE tape or liquid sealant suitable for high temperatures and pressures) to the G1/8 threaded connection of the new Anchilly pressure switch.
5. **Installation:** Screw the new pressure switch into the designated port on the machine. Tighten securely but do not overtighten, as this can damage the threads or the switch.

6. **Electrical Connection:** Reconnect the electrical wires to the terminals of the new pressure switch. Ensure connections are secure and match the original configuration. Refer to the machine's wiring diagram if available.
7. **Adjustment (if applicable):** Some models may have a positive pressure adjusting hole (refer to Figure 3.3). If adjustment is required, follow the machine manufacturer's guidelines for setting the desired pressure threshold. This typically involves turning a screw to change the spring tension.
8. **Reassembly:** Replace any removed panels or covers.
9. **Testing:** Plug the machine back into the power outlet and test its operation according to the machine's instruction manual. Monitor for leaks and proper pressure regulation.

6. Operating Principle

The Anchilly G1/8 Steam Coffee Machine Pressure Switch operates based on a simple mechanical principle:

- When steam pressure within the machine reaches a predetermined set point, it exerts force on a diaphragm inside the pressure switch.
- This force causes the diaphragm to move, which in turn actuates a microswitch.
- The microswitch then either opens or closes an electrical circuit, typically controlling the heating element of the steam boiler.
- For example, in a positive pressure application, when the desired pressure is reached, the switch might open the circuit to turn off the heating element, preventing over-pressurization. When pressure drops below a certain threshold (the differential), the switch closes the circuit, reactivating the heating element.

This continuous monitoring and control ensure that the machine maintains a stable operating pressure for consistent steam production.

7. Maintenance

The Anchilly G1/8 Steam Coffee Machine Pressure Switch is designed for durability and typically requires minimal maintenance. However, regular inspection of the overall coffee machine system is recommended.

- **Visual Inspection:** Periodically inspect the pressure switch and its connections for any signs of corrosion, leaks, or physical damage.
- **Cleaning:** If the exterior of the switch becomes dirty, wipe it gently with a dry, soft cloth. Do not use abrasive cleaners or immerse the switch in liquids.
- **System Descaling:** Regular descaling of your coffee machine's boiler system, as recommended by the machine manufacturer, can help prevent mineral buildup that might affect pressure sensor performance over time.
- **Professional Check:** If you suspect the pressure switch is not functioning correctly, or if the machine's pressure regulation becomes erratic, consult a qualified service technician.

8. Troubleshooting

If you encounter issues with your coffee machine's steam pressure, consider the following troubleshooting steps related to the pressure switch:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No steam or low steam pressure	◦ Faulty pressure switch (not closing circuit) ◦ Loose electrical connections ◦ Clogged steam lines or boiler ◦ Heating element failure	◦ Check electrical connections to the switch. ◦ Test the switch continuity with a multimeter (machine unplugged). ◦ Inspect and clean steam lines/boiler. ◦ Consult a technician for heating element diagnosis.
Excessive steam pressure / Safety valve activating	◦ Faulty pressure switch (not opening circuit) ◦ Pressure adjustment set too high	◦ Test the switch continuity with a multimeter (machine unplugged). ◦ If adjustable, verify pressure setting according to machine specifications. ◦ Replace faulty switch.
Water or steam leak around switch	◦ Improperly sealed threads ◦ Damaged switch housing	◦ Disconnect power, depressurize, remove switch, reapply thread sealant, and reinstall. ◦ If housing is damaged, replace the switch.

Important: *Always disconnect power and depressurize the machine before attempting any inspection or repair. If you are unsure about any step, consult a qualified service technician.*

9. Warranty and Support

For warranty information and technical support regarding your Anchilly G1/8 Steam Coffee Machine Pressure Switch, please refer to the documentation provided with your original coffee machine or contact the retailer where the pressure switch was purchased.
Keep your proof of purchase for warranty claims.

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