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> CALEFFI 669050 3/4" Self-Cleaning Flow Meter Instruction Manual

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Model: 669050

1. PRODUCT OVERVIEW

The CALEFFI 669050 is a 3/4" self-cleaning flow meter designed for accurate measurement of fluid flow in various systems, typically heating and plumbing applications. This device features a dual reading scale and a self-cleaning mechanism to ensure consistent performance and reduce maintenance requirements. It is engineered for reliability within specified operational parameters.



An image showing the CALEFFI 669050 self-cleaning flow meter. The brass body features a transparent window displaying a flow scale from 1 to 4 liters per minute. The top connection is 3/4 inch male, and the bottom connection is 3/4 inch female, with an arrow indicating flow direction.

2. SETUP AND INSTALLATION

Proper installation is crucial for the accurate and reliable operation of the CALEFFI 669050 flow meter. Follow these guidelines:

- 1. System Preparation:** Ensure the system is depressurized and drained before installation.

2. **Orientation:** Install the flow meter in the correct flow direction as indicated by the arrow on the device body. Incorrect orientation will result in inaccurate readings.
3. **Connection:** The flow meter features 3/4" Male (M) and 3/4" Female (F) connections. Use appropriate sealing materials (e.g., PTFE tape or thread sealant) on threaded connections to prevent leaks. Tighten connections securely but do not overtighten.
4. **Location:** Install the flow meter in a section of pipe where the flow is stable and free from turbulence. Avoid installing immediately after pumps, elbows, or valves.
5. **Environmental Conditions:** Ensure the operating pressure does not exceed 6 bar and the operating temperature does not exceed 80 °C.
6. **Post-Installation Check:** After installation, slowly repressurize the system and check all connections for leaks.

3. OPERATING INSTRUCTIONS

The CALEFFI 669050 flow meter provides a visual indication of the fluid flow rate. To operate and read the device:

- **Flow Indication:** As fluid flows through the meter, an internal indicator will rise within the transparent window.
- **Reading the Scale:** The flow scale is marked in liters per minute (l/min), ranging from 1 to 4 l/min. Read the flow rate at the top edge of the indicator.
- **Dual Reading Scale:** The device features a dual reading scale, allowing for clear measurement from different viewing angles.
- **Self-Cleaning Feature:** The integrated self-cleaning mechanism helps prevent the accumulation of debris that could affect accuracy. This feature operates automatically during normal flow conditions.

4. MAINTENANCE

The CALEFFI 669050 flow meter is designed for low maintenance due to its self-cleaning feature. However, periodic checks are recommended to ensure optimal performance and longevity:

- **Visual Inspection:** Regularly inspect the flow meter for any signs of external damage, corrosion, or leaks around the connections.
- **Scale Clarity:** Ensure the transparent window and flow scale remain clear and legible. While self-cleaning, extreme conditions might require external cleaning of the window.
- **System Flushing:** If the system fluid contains significant particulate matter, periodic system flushing may be beneficial to prevent excessive buildup, even with the self-cleaning feature.
- **No User Serviceable Parts:** The internal mechanism of the flow meter contains no user-serviceable parts. Do not attempt to disassemble the unit.

5. TROUBLESHOOTING

If you encounter issues with your CALEFFI 669050 flow meter, consider the following:

- **No Flow Reading:**
 - *Check for actual flow:* Ensure there is fluid movement in the pipe.

- *Incorrect installation:* Verify the flow meter is installed in the correct direction (check arrow).
 - *Blockage:* A severe blockage in the system or within the meter (unlikely due to self-cleaning, but possible in extreme cases) could prevent the indicator from moving.
- **Inaccurate Reading:**
 - *Turbulence:* Ensure the flow meter is installed in a straight section of pipe, away from sources of turbulence.
 - *Air in system:* Air bubbles can affect flow meter accuracy. Bleed the system if necessary.
 - *Operating limits exceeded:* Verify that the system pressure and temperature are within the specified limits (6 bar, 80 °C).
- **Leaks at Connections:**
 - *Insufficient sealant:* Ensure adequate thread sealant was used during installation.
 - *Loose connections:* Gently tighten connections, being careful not to overtighten.
 - *Damaged threads:* Inspect threads on both the meter and the pipe for damage.

If issues persist after troubleshooting, contact a qualified technician or CALEFFI customer support.

6. SPECIFICATIONS

Parameter	Value
Manufacturer	CALEFFI
Model Number	669050
Connection Size	3/4" Male x 3/4" Female
Flow Scale	1 ÷ 4 l/min
Maximum Operating Pressure (Pmax)	6 bar
Maximum Operating Temperature (Tmax)	80 °C
Accuracy	± 10%
Item Weight	997.9 g
Special Features	Self-cleaning, Dual reading scale

7. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your authorized CALEFFI dealer or distributor. CALEFFI products are manufactured to high standards, and specific warranty terms may vary by region and product type.

For technical support, product inquiries, or assistance with troubleshooting beyond the scope of this manual, please contact CALEFFI customer service or visit the official CALEFFI website for contact details in your region.

Note: Always ensure that any work on plumbing or heating systems is carried out by qualified personnel in

accordance with local regulations and safety standards.

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