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› Flotec TC2502LF Well Pump Brass Check Valve Instruction Manual

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Model: TC2502LF

1. PRODUCT OVERVIEW

The Flotec TC2502LF is a 1-inch brass check valve designed for use in well pump systems. Its primary function is to prevent the backflow of water, ensuring that water flows in one direction only. This valve features a low-lead brass construction, making it a durable and reliable component for your plumbing needs.

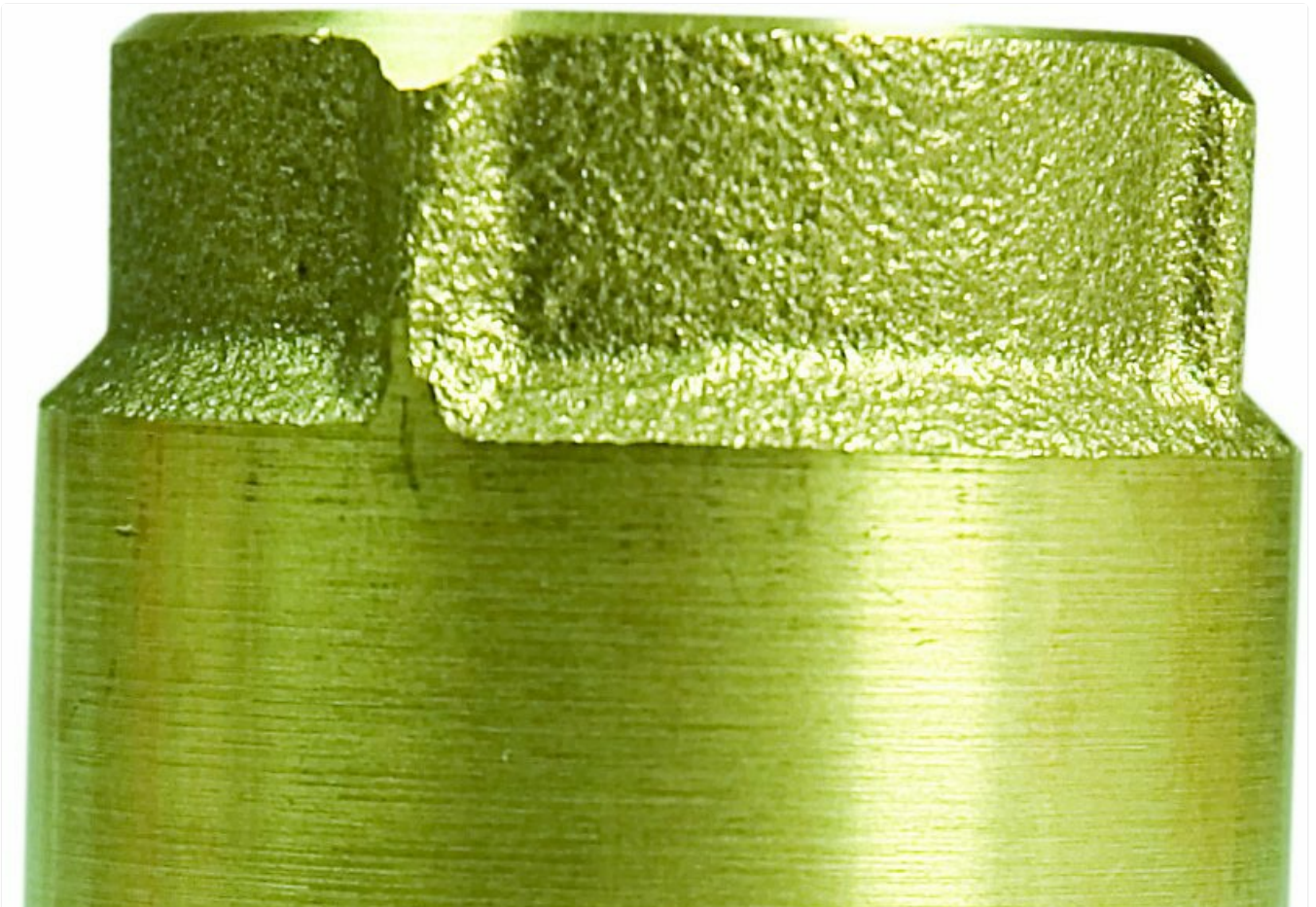




Image 1.1: The Flotec TC2502LF Well Pump Brass Check Valve. This image displays the brass construction and threaded ends of the valve.

Key Features:

- **Brass Check Valve:** Durable and corrosion-resistant construction.
- **Low Lead:** Complies with regulations for potable water systems.
- **Prevents Water Backflow:** Ensures unidirectional water flow in the system.
- **1-Inch Size:** Standard sizing for common well pump applications.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating this product. Failure to follow these instructions may result in property damage, serious injury, or death.

- Always depressurize the water system before attempting any installation, maintenance, or repair.
- Wear appropriate personal protective equipment, including safety glasses and gloves, during installation.
- Ensure all connections are properly sealed to prevent leaks, which can cause water damage or system failure.
- If you are unsure about any part of the installation process, consult a qualified plumber or professional.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. SETUP AND INSTALLATION

Proper installation is crucial for the effective operation of the check valve. It is recommended that installation be performed by a qualified professional.

1. **Depressurize System:** Turn off the power to the well pump and drain the water system to relieve pressure.
2. **Identify Flow Direction:** Check valves are directional. Ensure the valve is installed with the arrow on its body pointing in the direction of water flow (away from the pump, towards the pressure tank/system).
3. **Prepare Connections:** Clean the threads of the pipes and the valve. Apply an appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male pipe threads.
4. **Install Valve:** Thread the check valve onto the pipe connections. Hand-tighten first, then use a wrench to tighten securely, but do not overtighten, as this can damage the threads or the valve body.
5. **Inspect for Leaks:** Once installed, slowly repressurize the system and carefully inspect all connections for leaks. Tighten any leaking connections as necessary.
6. **Test Operation:** Verify that the pump cycles correctly and that water flows only in the intended direction.

4. OPERATION

The Flotec TC2502LF check valve operates automatically based on water pressure. When the well pump activates and creates pressure, the internal mechanism of the check valve opens, allowing water to flow through. When the pump shuts off and pressure drops, the valve closes, preventing water from flowing back towards the pump and into the well. This maintains prime in the pump and pressure in the system.

5. MAINTENANCE

The Flotec TC2502LF check valve is designed for reliable, long-term operation with minimal maintenance. However, periodic inspection of your entire well pump system, including the check valve, is recommended.

- **Visual Inspection:** Regularly check the valve and surrounding connections for any signs of leaks, corrosion, or physical damage.
- **Performance Monitoring:** Pay attention to your well pump's cycling. Frequent cycling or loss of system pressure may indicate a failing check valve or other system issues.
- **Cleaning:** No internal cleaning is typically required for this type of check valve. If debris is suspected, the valve may need to be removed and inspected by a professional.
- **Replacement:** If the check valve fails to prevent backflow or shows significant wear, it should be replaced.

6. TROUBLESHOOTING

If you experience issues with your well pump system, the check valve may be a contributing factor. Here are some common problems and potential solutions:

Problem: Water flows back into the well (loss of prime).

- **Possible Cause:** Check valve is stuck open or has failed.
- **Solution:** Inspect the check valve for debris or damage. If damaged, replace the valve.

Problem: No water flow or reduced flow.

- **Possible Cause:** Check valve installed backward, or internal mechanism is stuck closed.
- **Solution:** Verify the installation direction. If correct, the valve may be faulty and require replacement.

Problem: Leaks at valve connections.

- **Possible Cause:** Improperly sealed threads or damaged threads.
- **Solution:** Depressurize the system, reapply thread sealant, and retighten connections. If threads are damaged, replacement of the valve or pipe section may be necessary.

For persistent issues, consult a qualified plumbing professional.

7. SPECIFICATIONS

Specification	Detail
Manufacturer	Flotec
Part Number	TC2502LF
Item Model Number	TC2502LF
Item Weight	12.2 ounces
Product Dimensions	2.2 x 3 x 3.8 inches
Material	Lead, Brass
Item Package Quantity	1

8. WARRANTY AND SUPPORT

No specific warranty information is provided for the Flotec TC2502LF Well Pump Brass Check Valve. For product support, technical assistance, or inquiries, please refer to the official Flotec website or contact their customer service department directly.

Always ensure you have the model number (TC2502LF) available when contacting support.

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