

Fernco CV125T

Fernco CV-125T 1-1/4" Threaded Sump Pump PVC Threaded Check Valve Instruction Manual

Model: CV125T

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Fernco CV-125T 1-1/4" Threaded Sump Pump PVC Threaded Check Valve. This check valve is designed to ensure efficient operation of your sump pump system by preventing back-flow of water.

2. PRODUCT OVERVIEW

The Fernco CV-125T is a robust 1-1/4" threaded check valve specifically engineered for sump pump applications. It features a full-flow flapper design that creates a positive seal, effectively preventing water from flowing back into the pump. This design helps to prolong the life of your sump pump by reducing unnecessary wear. The valve is constructed from durable thermoplastic and includes industry-leading Fernco PVC couplings with rust-resistant stainless steel clamps for secure and lasting connections. It is proudly manufactured in the USA.



Figure 1: Fernco CV-125T 1-1/4" Threaded Sump Pump PVC Threaded Check Valve. This image shows the valve from a side angle, highlighting the threaded connection on one end and the two flexible PVC couplings with stainless steel clamps on the other.

3. SAFETY INFORMATION

Always observe the following safety precautions during installation and maintenance:

- Ensure the sump pump system is disconnected from power before beginning any work.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Handle tools and materials carefully to prevent injury.
- If you are unsure about any step, consult a qualified professional.

4. COMPONENTS

The Fernco CV-125T check valve assembly includes the following primary components:

- **Check Valve Body:** Made of durable thermoplastic.
- **1-1/4" Threaded Connection:** For direct attachment to the sump pump discharge.
- **Flexible PVC Couplings:** Two couplings integrated for connecting to 1-1/4" piping.
- **Stainless Steel Clamps:** Two rust-resistant clamps for securing the PVC couplings to the discharge pipe.



Figure 2: Top-down view of the Fernco CV-125T Check Valve. This image provides a clearer view of the flexible PVC couplings and the stainless steel clamps, as well as the threaded connection at the bottom.

5. SETUP AND INSTALLATION

Follow these steps for quick and easy installation of your Fernco CV-125T check valve:

- 1. Prepare the Sump Pump:** Ensure the sump pump is unplugged and the discharge pipe is clear of any obstructions. If replacing an existing valve, remove it and clean the pipe ends.
- 2. Thread onto Pump:** The threaded end of the Fernco CV-125T valve threads directly into the discharge port of your sump pump. Hand-tighten securely, ensuring a snug fit without overtightening.
- 3. Connect Discharge Pipe:** Slide the existing or new 1-1/4" discharge pipe into the flexible PVC coupling on the outbound side of the check valve. Ensure the pipe is fully seated within the coupling.
- 4. Secure Clamps:** Use a screwdriver or nut driver to tighten the stainless steel clamps around the PVC couplings. Tighten until the pipe is firmly secured and there are no gaps, but avoid overtightening which could damage the coupling or pipe.
- 5. Inspect Connections:** Visually inspect all connections to ensure they are tight and properly aligned.
- 6. Test System:** Once installation is complete, plug in the sump pump and test its operation to check for leaks and proper water flow.

6. OPERATING PRINCIPLE

The Fernco CV-125T check valve operates on a simple, yet effective principle to manage water flow in your sump pump system. When the sump pump activates, water is pushed through the valve, opening the internal flapper mechanism. Once the pump shuts off, the water pressure from the discharge line drops, and the flapper automatically closes, creating a positive seal. This prevents any water that has been pumped out from flowing back down the discharge pipe and re-entering the sump pit, which would cause the pump to cycle unnecessarily and reduce its lifespan.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your check valve:

- Annual Inspection:** Annually inspect the check valve for any signs of wear, cracks, or leaks. Check the tightness of the stainless steel clamps.
- Debris Check:** Periodically check the sump pit for excessive debris that could potentially enter the discharge line and interfere with the check valve's flapper operation.
- Cleaning:** If the valve appears to be obstructed or not sealing properly, disconnect power to the pump, remove the valve, and clean any accumulated debris from the flapper mechanism.

8. TROUBLESHOOTING

If you encounter issues with your Fernco CV-125T check valve, consider the following:

Problem	Possible Cause	Solution
Water flowing back into sump pit	Check valve flapper obstructed or damaged; valve installed backward.	Disconnect power, remove valve, inspect and clear debris from flapper. Ensure correct installation direction. Replace if damaged.

Problem	Possible Cause	Solution
Leaks at connections	Clamps not tight enough; improper pipe seating; damaged coupling.	Ensure clamps are tightened securely. Verify pipe is fully seated in coupling. Inspect coupling for damage and replace if necessary.
Reduced water flow from pump	Obstruction in valve or discharge pipe.	Disconnect power, remove valve, check for debris inside the valve or in the discharge pipe.

9. SPECIFICATIONS

Attribute	Detail
Model Number	CV125T
Size	1-1/4" Threaded
Material	Thermoplastic
Brand	Fernco
Color	Stainless Steel (Clamps)
Dimensions (L x W x H)	2.5 x 2.5 x 3.5 inches
Manufacturer	Fernco
UPC	082481958872

10. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the official Fernco website or contact Fernco customer service directly. Keep your purchase receipt for warranty claims.

Fernco Official Website: www.fernco.com

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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.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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