

Legend T-521NL

Legend Valve & Fitting T-521NL 3/4" Brass Lead Boiler Drain User Manual

Model: T-521NL

1. INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of the Legend Valve & Fitting T-521NL 3/4" Brass Lead Boiler Drain. Please read this manual thoroughly before proceeding with any procedures to ensure proper function and longevity of the product.

2. SAFETY INFORMATION

WARNING: This product contains lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

- Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves during installation and maintenance.
- Ensure the system is depressurized and drained before attempting installation or removal of the valve.
- Do not exceed the maximum operating pressure of 125 PSI.
- Consult local plumbing codes and regulations for proper installation practices.
- If you are unsure about any installation or maintenance steps, consult a qualified plumber.

3. PRODUCT OVERVIEW

The Legend T-521NL is a 3/4-inch brass boiler drain valve designed for low-pressure applications. It features a durable brass body, a cast iron handle, and a steel handle nut, ensuring reliable performance for draining boilers and similar systems. This valve is designed for a maximum cold working pressure (CWP) of 125 PSI.



Figure 1: Legend T-521NL 3/4" Brass Lead Boiler Drain Valve. This image shows the brass valve body with a threaded inlet at the bottom and a threaded outlet angled to the side. A black cast iron handle is visible at the top for manual operation.

4. SETUP AND INSTALLATION

1. **Preparation:** Ensure the boiler or system is completely depressurized and drained of water. Turn off any heat sources.
2. **Thread Preparation:** Apply appropriate thread sealant (e.g., PTFE tape or pipe dope) to the male threads of the boiler drain valve.
3. **Installation:** Carefully thread the valve into the designated boiler drain port. Ensure it is hand-tightened first, then use a wrench to tighten it securely. Avoid over-tightening, which can damage the threads or the valve body.
4. **Orientation:** Position the valve so that the outlet port is easily accessible for connecting a hose or directing drainage.
5. **Leak Check:** Once installed, slowly repressurize the system and carefully check for any leaks around the threaded connections. Tighten further if necessary, but do not over-tighten.

5. OPERATING INSTRUCTIONS

The T-521NL boiler drain valve is operated manually using the cast iron handle.

- **To Open the Valve:** Turn the handle counter-clockwise until the valve is fully open. This will allow water to drain from the boiler.
- **To Close the Valve:** Turn the handle clockwise until the valve is fully closed. Do not over-tighten the handle, as this can damage the internal components. A firm hand-tightening is usually sufficient to stop the flow.

Always ensure a hose is connected to the outlet or a suitable container is in place before opening the valve to prevent water damage.

6. MAINTENANCE

Regular inspection and basic maintenance can extend the life of your boiler drain valve.

- **Visual Inspection:** Periodically check the valve for any signs of corrosion, leaks, or physical damage.

- **Leak Detection:** If a leak is detected at the threaded connections, ensure the connections are properly tightened. If the leak persists, the thread sealant may need to be reapplied.
- **Operation Check:** Occasionally operate the valve (open and close) to ensure it moves freely and does not seize.
- **Cleaning:** Keep the exterior of the valve clean and free from debris.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Valve leaks at connections	Loose connection, insufficient thread sealant, damaged threads.	Tighten connection, reapply thread sealant, inspect threads for damage and replace if necessary.
Valve handle is stiff or difficult to turn	Mineral buildup, lack of use, internal component wear.	Operate valve several times to free it. If problem persists, replacement may be necessary.
Valve does not fully close	Debris lodged in valve seat, worn internal components.	Attempt to flush debris by opening and closing rapidly. If issue persists, valve replacement is recommended.

8. SPECIFICATIONS

Model: T-521NL

Material: Brass (body), Lead, Steel (handle nut), Cast Iron (handle)

Connection Size: 3/4 inch

Maximum Operating Pressure (CWP): 125 PSI (Pound per Square Inch)

Number of Ports: 2

Product Dimensions: 3.5 x 3.5 x 2.25 inches (L x W x H)

Item Weight: 10.4 ounces

Manufacturer: LEGEND VALVE FITTING

UPC: 662545083513

9. WARRANTY AND SUPPORT

For specific warranty information or technical support regarding your Legend T-521NL boiler drain valve, please contact Legend Valve & Fitting directly. Refer to the official Legend website or product packaging for the most current contact details and warranty terms.

Manufacturer: LEGEND VALVE FITTING

Website: [Visit the Legend Store on Amazon](#) (for general brand information)