

INSTALLATION GUIDE

T-51NL THERMAL EXPANSION RELIEF VALVES

WARNINGS

Read this Installation Manual BEFORE installing this product and follow all written instructions. Noncompliance with safety protocols and usage information may result in serious personal injury, property damage, and voiding of the product warranty. Keep this IOM for future reference.

APPLICATIONS

Legend's T-51NL Thermal Expansion Relief Valves are designed for residential water heating applications. This product is a combination shutoff valve and thermal expansion relief valve, which is installed on the cold-water inlet side of a water heater to help prevent excessive pressure buildup in the system. The T-51NL is NOT intended to replace factory-supplied Temperature and Pressure Relief Valves supplied by water heater manufacturers, which are required by code and crucial to the safe operation of the water heater.

During operation, it is normal for small amounts of water to periodically discharge from the relief outlet. However, if there is a near-continuous stream of water, immediately call a plumber to check for excessive pressure.

PRODUCT SPECIFICATIONS

The T-51NL is certified and/or meets the following standards for performance, dimensional, and material requirements: NSF/ANSI 14, NSF/ANSI 61, NSF/ANSI 372, Uniform Plumbing Code (UPC), National Plumbing Code of Canada (NPC), ANSI/ASME B1.20.1, ANSI/ASME B16.51, ASTM F1807, and ASTM F1960. Refer to the T-51NL submittal sheet for additional specification information.

INSTALLATION CONSIDERATIONS

The T-51NL should be installed on the cold-water supply line that leads into the water heater. The flow arrow on the valve body should be pointed towards the water heater. To ensure the thermal relief valve can effectively protect the system, do not install other valves between the T-51NL and the water tank or on the T-51NL's drain line.

Ball Valve Connections

The ball valve connections of T-51NL are available with various 3/4" end configurations, including Press-to-Connect, FNPT, Crimp/Cinch PEX, and Cold Expansion PEX. Follow general best practices for plumbing installations when connecting the valve to the system, and refer to the tool manufacturer's instructions for proper tool operation when applicable.

- The insertion depth for press-to-connect models is 1".

Integrated Thermal Expansion Relief Valve

The T-51NL's Integrated Thermal Expansion Relief Valve has factory-set relief pressures of 80, 100 & 125 psi. Relief pressures are listed on the metal tag attached to a valve. Verify that the correct pressure has been selected according to your local conditions. The relief valve outlet connection can be changed to suit the installation. Legend offers relief outlet adapters in the following sizes and configurations: 1/2" Crimp/Cinch PEX (pre-installed), 3/8" Compression¹, 3/8" Insert Barb¹, and 1/2" Expansion PEX².

Once installed, it is expected that the relief valve will discharge roughly 1/4 to 1/3 of a gallon of water during reheat cycles. The relief valve outlet must be piped to a drain and secured in place to prevent water damage to the surrounding area.

¹ 3/8" Compression (OD) and Hose Insert Barb Adapters for the Relief Valve Outlet are included with kitted SKUs.

² T-51NL F1960A only.

INSTALLATION INSTRUCTIONS

Installing the Relief Valve Drain Line

It is critical that the T-51NL's relief valve be able to operate freely and unobstructed. When installing the drain line, several key instructions must be followed to ensure the relief valve is able to function correctly.

DO: Plumb the T-51NL's drain line independently of the water heater's temperature and pressure relief valve.

DO: Keep the drain and drain line visible and accessible to allow observation.

DO: Facilitate proper drainage by taking the following steps:

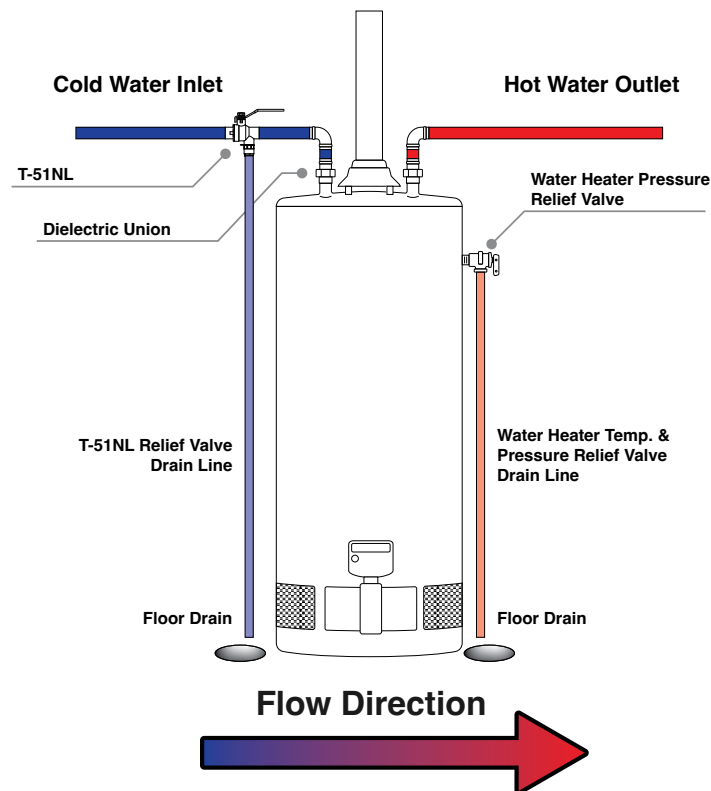
- Keep the drain line as short as possible.
- Install the drain line with a downward pitch.
- Ensure the drain line has a plain end (no threads or connectors).
- Leave a visible air gap between the end of the drain line and the drain.
- Secure the drain line to prevent it from accidentally moving.
- Protect the drain line from freezing temperatures.

DO NOT: Use the T-51NL instead of, or to replace, a water heater's temperature and pressure relief valve.

DO NOT: Connect the T-51NL's drain line directly to a sewer line.

DO NOT: Install shutoff valves on or connect other fixtures to the drain line.

DO NOT: Allow the end of the drain line to become blocked or submerged.



NOTICE

Failure to follow these installation instructions may void the product warranty and could result in serious property damage and/or bodily injury, including death.



WARNING

This product can expose you to chemicals which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov