

# INSTALLATION GUIDE

## T-47NL THERMOSTATIC MIXING VALVE

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### WARNING

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Read this Installation Manual PRIOR to installing this valve. Noncompliance with safety and use information can result in serious personal injury, property damage, or damage to the valve. Keep this IOM for future reference.

This valve can still be adjusted to deliver scalding hot water. Check outlet temperature to ensure it does not exceed the recommended maximum temperature of 105°F (41°C). Make sure temperature limit stop is re-adjusted to maximum 105°F (41°C) following any maintenance or repair.

### DESCRIPTION

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The Legend T-47NL 3/8" (10mm) compression-fitting, thermostatic mixing valve sustains and limits hot water to an adjustable temperature between 80° - 120°F (27° - 49°C) and with a flow rate between 0.25 and 3.2 GPM. The mixing valve is listed to ASSE 1070 standard (single fixture applications). The flow characteristics of the T-47NL provides temperature control with low pressure drop. The T-47NL incorporates dual check valves to prevent crossflow and integral screens to filter out debris. A cap is included for three port applications.

### APPLICATIONS

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The T-47NL is intended for under-sink installations to control outlet water temperature and minimize accidental scalding incidences. The water temperature must be adjusted by the installer using a thermometer to measure the delivered water temperature at the faucet. Maximum temperature of 105°F (4°C) is recommended.

### REQUIREMENTS

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1. Minimum supply pressure: 30 PSI;
2. Minimum HW Inlet/outlet temperature differential: 15°F;
3. Maximum HW/CW pressure differential: 25%;
4. Hot Inlet temperature range: 120° - 200°F (49° - 93°C);
5. Cold Inlet temperature range: 38° - 80°F (3° - 27°C);
6. The high outlet temperature is lower than: 120°F (49°C)
7. Maximum supply Pressure: 150 PSI (10.3 bar);
8. Flow Rates: 0.25\* - 3.2 gpm.



# INSTALLATION

**Notice:** Flush all piping thoroughly before installation.

1. Turn off hot and cold-water.
2. Determine a suitable location for the T-47NL. The valve should be accessible for adjustments and service, and as close to the point-of-use as possible.
3. Connect hot and cold water to the supply valve using 3/8" compression connections. Make sure copper tubing does not extend more than 3/16" beyond the compression ferrule.
4. Connect outlet(s) of the T-47NL to the fixture inlet(s).
5. Turn hot and cold-water supplies on. If any leaks are present, tighten connections as necessary before proceeding.
6. Turn on fixture and allow water to flow for at least 2 minutes. Measure the fixture's outlet temperature. If the water is not at the desired temperature, adjust as necessary (see temperature adjustment section).

# TEMPERATURE ADJUSTMENT

1. Remove the yellow cap.
2. Turn on fixture and run water at least for 2 minutes to allow water temperature to stabilize.
3. Using the cap's triangular recession on top of the yellow cap, turn the temperature adjustment screw counterclockwise for hotter or clockwise for colder outlet temperature.
4. Allow temperature to stabilize and re-check outlet temperature.
5. Replace cap to prevent accidental or unauthorized temperature adjustment.

