INSTALLATION & MAINTENANCE

ThermaMIX PRO
WATER HEATER MIXING VALVE

EASYFLEX THERMAMIX VALVE OVERVIEW: The Easyflex ThermaMix thermostatic mixing valve functions in domestic water heating systems, producing output temperatures from 86°–120° F (30°–49° C), initially configured at 115°–120° F (46°–49° C). Once a year or more, examine the valve to confirm the correct temperature range is in operation. Should an issue arise, promptly adjust the water heater to a safe maximum of 120° F, following the guidance of the maker. Frequent inspection may be required if water quality is poor or uncertain. In these circumstances, a filter or strainer is mandatory. To hinder cross flow, integrated check valves are placed on hot and cold water inlets in the Easyflex ThermaMix valve. Confirm these are working to ensure system safety.

IMPORTANT: Comply with all relevant local, state, and federal laws when dealing with installation, testing, or repair. All parts come with a lifetime guarantee against defects, given they are installed by a certified plumber under regular conditions. Disassembly will void the warranty. For inquiries, dial (888) 577-8999 or go to easyflexusa.com.

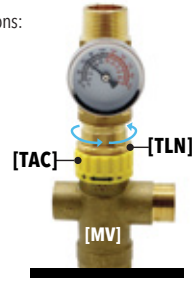
WARNING: Do not expose the valve to freezing conditions; use proper insulation if necessary. Subjecting the valve to heat during setup may harm the internal components. Only use the valve with water systems. Avoid using it with steam systems. Excessive thread sealant might lead to failure. Be aware that water over 120° F can result in serious harm or death. Verify the proper temperature range annually and after the initial setup as per the outlined instructions.

INSTALLATION STEPS

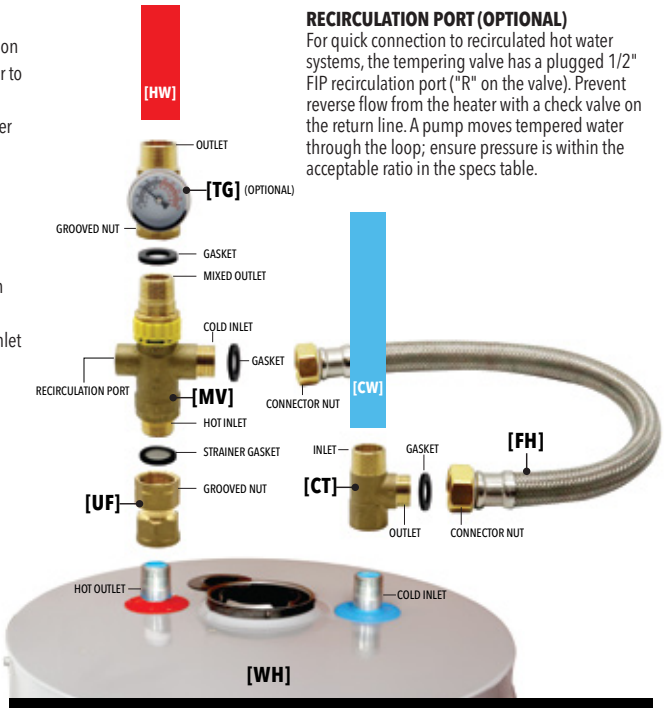
1. System Preparation: Flush the system of all residue before setting up the mixing valve. This is essential to avoid common system issues. Verify the mxing valve meets site conditions like temperature and pressure. Fix any inconsistencies prior to installation. To guard against poor water quality, place a filter or strainer before the valve and water heater inlets.
2. Installation Planning: Make sure that the flexible hose **[FH]** can connect between the mixing valve **[MV]** and cold water tee **[CT]**, and adjustment parts are accessible.
3. Apply PTFE tape around water heater **[WH]** cold inlet and hot outlet.
4. Connect the firm (non-grooved) part of union fitting **[UF]** to the water heater **[WH]** hot outlet.
5. Place the strainer gasket into union fitting **[UF]** grooved nut and attach to mixing valve **[MV]** hot inlet (marked "H" on valve body).
6. Connect cold water tee **[CT]** to water heater **[WH]** cold inlet. Ensure cold water tee **[CT]** aligns so flexible hose **[FH]** can reach mixing valve **[MV]** cold inlet.
7. Confirm gaskets are in both flexible hose **[FH]** connector nuts. Connect flexible hose **[FH]** to mixing valve **[MV]** cold inlet (marked "C" on valve body), then connect flexible hose **[FH]** to cold water tee **[CT]** .
8. For models with an optional temperature gauge, insert gasket into temperature gauge fitting **[TG]** grooved nut. Connect temperature gauge fitting **[TG]** to mixing valve **[MV]** mixed outlet (marked "M" on valve body)
9. Connect the system cold water **[CW]** supply to cold water tee **[CT]** inlet
10. Connect the system hot water **[HW]** piping to mixing valve **[MV]** mixed outlet (marked "M" on valve body) or temperature gauge fitting **[TG]** outlet.
11. Confirm the correct mixed output temperature is achieved per the following instructions:

VERIFYING & ADJUSTING TEMPERATURE

Once the water heater is activated and the stored water has reached the designated temperature, use a thermometer to confirm the temperature of the mixed water at the closest hot water outlet that is being supplied by the mixing valve. Allow water to flow for a duration of no less than 1 minute, maintaining a minimum flow rate of 1.5 gallons per minute (GPM), ensuring that the temperature has stabilized. The mixing valve comes pre-set from the factory with a maximum output temperature range of 115°F to 120°F (46°C to 49°C). If there's a need for adjustment or if a different output temperature is preferred, perform the following actions:



1. Using a wrench, loosen the temperature adjustment lock **[TLN]** nut 2 complete rotations.
2. Lift the temperature adjustment cap **[TAC]** towards the loosened nut **[TLN]**, you'll hear a clicking sound.
3. As water flows through the mixing valve **[MV]**, rotate the cap **[TAC]** towards the desired temperature.
4. Make sure the temperature is correct by measuring the water from a nearby outlet that has a min. flow rate of 1.5 gpm. Run the water for a minimum of 1 minute before taking any measurements.
5. When completed, tighten the **[TLN]** with a wrench and you will hear the cap **[TAC]** click back in place. Make sure the cap **[TAC]** is locked.



RECIRCULATION PORT (OPTIONAL)

For quick connection to recirculated hot water systems, the tempering valve has a plugged 1/2" FIP recirculation port ("R" on the valve). Prevent reverse flow from the heater with a check valve on the return line. A pump moves tempered water through the loop; ensure pressure is within the acceptable ratio in the specs table.

TEMPERATURE INDICATOR STRIP

Outlet temperature must be checked via direct water measurement using a thermometer post-installation and after adjustments. The provided temperature strip can monitor valve outlet temperature, attaching to steel or copper pipes, at least 10" from the mixed water outlet.

MAINTENANCE and SERVICING

While testing, confirm temperature at the initial water outlet. Let water temperature stabilize before measuring. If it varies over 5°F from setup, consult the troubleshooting table.

TROUBLESHOOTING GUIDE

PROBLEM	SOLUTION
Correct mixed water temp won't set properly	• Confirm inlet temperatures are within the ThermaMix's specifications • Confirm hot and cold water supply lines are not connected backwards • Confirm strainers are not blocked
Unstable or inconsistent mixed water temp	• Confirm strainers are not blocked • Confirm supply pressures are stable. Implement pressure regulating valves if needed
Excessive hot or cold water flowing from ThermaMix mixing valve outlet	• Verify the ThermaMix mixing valve's temperature setting • Confirm hot and cold water supply lines are not backwards • Confirm check valves are not blocked or damaged • Confirm inlet temperatures are within the ThermaMix's specifications
There is no flow coming from the ThermaMix mixing valve outlet	• Confirm there is enough hot or cold water supply • Confirm valve inlets are not blocked
Flow rate that is low or inconsistent	• Confirm valve inlets are not blocked • Confirm supply pressures are stable. Implement pressure regulating valves if needed
No change in mixed water temp after adjustment	• Confirm hot and cold water supply lines are not connected backwards
Hot water goes into the cold water, or cold water goes into the hot water	• Confirm check valves are not blocked or damaged
ThermaMix mixing valve makes loud noises	• Confirm water supply pressures are within ThermaMix's specifications • Implement pressure regulating valves to correct if needed • Confirm ThermaMix is the correct size for the required flow

LEGEND

WH	Water Heater	**TG**	Temperature Gauge
MV	Mixing Valve	**CW**	Cold Water
FH	Flexible Hose	**HW**	Hot Water
CT	Cold Water Tee	**TLN**	Temperature Lock Nut
UF	Union Fitting	**TAC**	Temperature Adjust Cap

TECHNICAL SPECS

Thermostatic controller factory preset temperature (adjustable)	105.8°F
Accuracy of the outlet temperature	3.6°F
High outlet temperature lower than	120°F
Cold water supply temperature	39°F - 81°F
Hot water supply temperature	120°F - 180°F
Maximum supply pressure	145psi
Temperature differential	18°F
Maximum temperature	194°F
Flow rate minimum	1gpm