

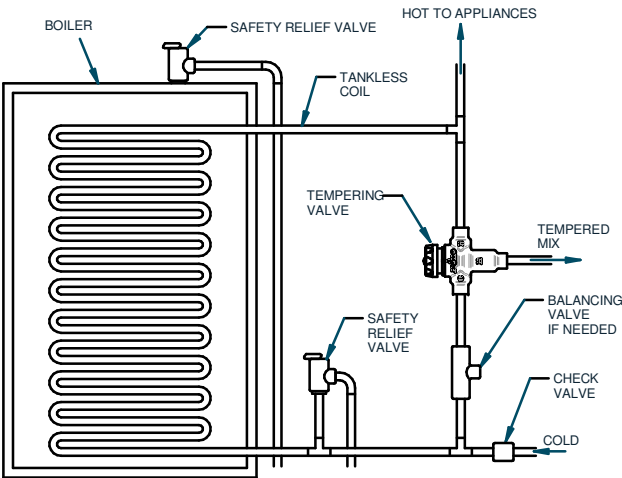


# MODEL TV (34-200 SERIES) THERMOSTATIC MIXING AND DIVERTING VALVE

## INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

### INSTALLATION

1. The Apollo Model TV Tempering valve shall be installed by a licensed plumbing contractor in accordance with these instructions and the state and local plumbing codes.
2. Install the valve as recommended in the diagrams and locate for ease of adjustment, repair and service. A balancing valve is recommended only if the differential pressure between the cold and the hot inlet pressure is greater than 30 psig.
3. Remove the handle assembly and thermostat assembly prior to soldering operation. Excessive soldering temperature will damage internal components of the valve.
4. Re-assemble thermostat and handle assembly. Pressurize with cold water and hot water and check for leaks.
5. Adjust temperature to the preferred outlet setting.

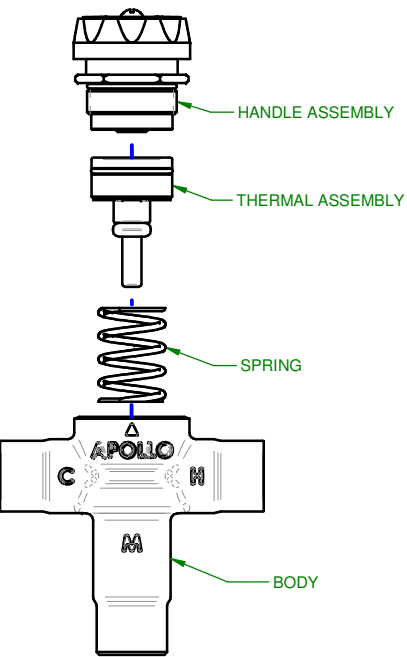


### ADJUSTMENT

Turn the handle clockwise for lower mixed temperature, or counter-clockwise for higher mixed temperature. At flow condition, adjust the handle to a desired setting of the mixed temperature. Use thermometer or temperature gauge downstream to check temperature setting.

### THERMOSTAT ASSEMBLY REMOVAL

Remove the screw and yellow handle from stem. Using a wrench on the brass hex remove the handle assembly. Using needle nose pliers, grasp the thermostat assembly by one of the plastic webs and remove. Caution: Do not attempt to remove thermostat by the pin. This can damage the thermostat.



### OPERATION

APOLLO MODEL TV Tempering Valves are designed to control the mixed water temperature against pressure and temperature fluctuations, providing a safe and consistent mixed water temperature. Once the desired temperature is set, the valve will automatically maintain the water temperature. Periodic inspection is recommended to assure continuous temperature control.

### MAINTENANCE

Regular cleaning and service of the thermostat assembly will help extend the life and assure continuous performance. Corrosive water conditions, water temperature in excess of 210°F, and inadequate inspection intervals will reduce the life of the valve. Repair kits: 34200L1RK for 85°F - 120°F or 3420001RK for 120°F - 180°F.

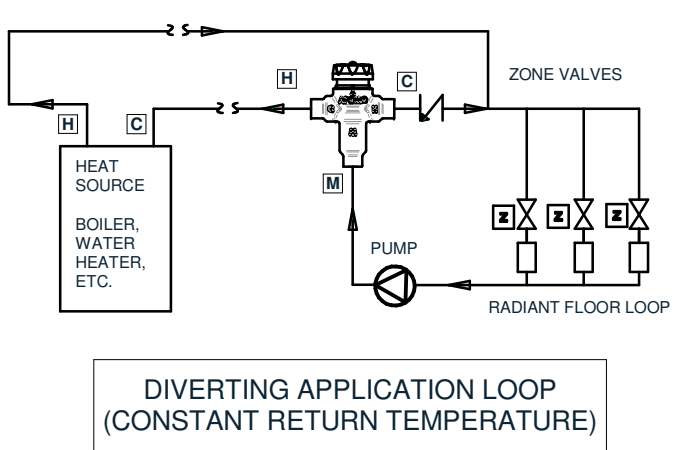
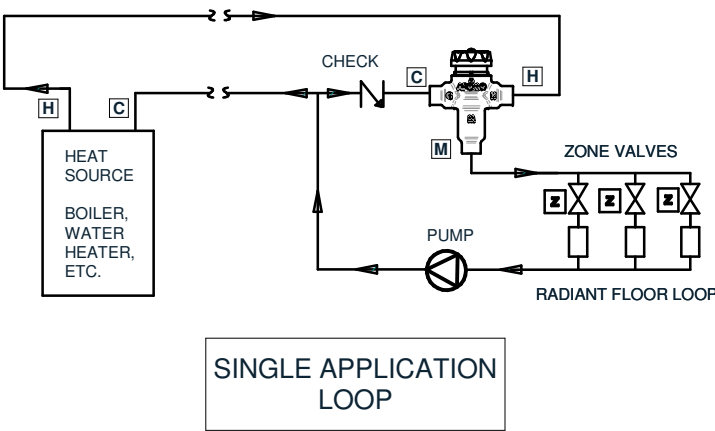
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### TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
Mixed temperature fluctuating or erratic	Cold and Hot water inlet pressure differential greater than 30 psid	Install pressure reducing valve or pressure limiting device to maintain equal and consistent pressures.
	Shuttle assembly damaged or worn.	Replace with repair kit.
	Setpoint adjustment at maximum setting.	Increase inlet water temperature setting
Mixed temperature will not adjust to desired temperature	Inlet / outlet temperature differential too low.	Increase inlet water temperature setting
	Defective thermostatic element	Replace element
No Flow	Supply valves closed	Check cold and hot water supply valves
	Loss of supply pressure	Check with licensed plumber

### TYPICAL APPLICATION DIAGRAMS



**⚠ CALIFORNIA PROP 65: WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

In accordance with the U.S. Safe Drinking Water Act (SDWA), it is illegal to use this product in the United States for potable water services (water intended for human consumption).



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