

# Approved Automatic Hot Water Temperature Control Valves

*To better serve ISDH's mission to protect public safety, align its enforcement obligation with industry best practices and encourage innovation, the Health Care Engineering and Environmental Health Programs are replacing the current "Approved List: Automatic Hot Water Temperature Control Valves." It is superseded by the following policy which is based on the latest editions of standards published by the American Society of Sanitary Engineers (ASSE).*

**Hot water used for hand washing and bathing shall not exceed one-hundred twenty degrees Fahrenheit (120°), as measured at the point of use except as specified by other Rules.**

Required by rules: 410 IAC 15, 410 IAC 16.2-3.1-19(r), 410 IAC 16.2-5-1.6(k), 410 IAC 6-9, 410 IAC 6-7.1, 410 IAC 6-7.2, 410 IAC 6-2.1, 410 IAC 6-5.1, and 410 IAC 6-14.

**Approved devices for delivering tempered water to fixtures from all types of domestic water heating devices, including but not limited to boilers, instantaneous water heaters, and heat exchangers:**

- A. For sinks, lavatories and baths, a temperature actuated mixing valve listed under ASSE 1017 is approved for use at the hot water source, as the primary temperature control device, provided it is demonstrated to the authority having jurisdiction that water entering the cold water side of the valve is controlled between thirty-nine degrees Fahrenheit (39°F) and eighty degrees Fahrenheit (80°F) and the hot water inlet temperature is controlled between one-hundred twenty degrees Fahrenheit (120°F) and one-hundred eighty degrees Fahrenheit (180°F).

Exceptions:

- i. A water temperature limiting device listed under ASSE 1070, provided at the hot water source, is approved in lieu of the temperature actuated mixing valve.
  - ii. A water temperature limiting device listed under ASSE 1070 and provided at each individual sink, lavatory or bath fixture is approved in lieu of the temperature actuated mixing valve.
  - iii. A faucet listed under ASSE 1070 provided at each individual sink, lavatory or bath is approved in lieu of the temperature actuated mixing valve.
- B. An automatic compensating valve (Type T/P) listed under ASSE 1016 is approved and shall be provided at each individual shower or tub-shower fixture. An automatic compensating valve (Type P) listed under ASSE 1016 is approved only when the automatic compensating valve is fed by an ASSE 1070 water temperature limiting device.

Showerheads with flow rates less than the manufacturer's minimum rated flow for the automatic compensating valve are not permitted in regulated facilities unless the automatic compensating valve is fed by an ASSE 1070 water temperature limiting device.

- C. An automatic temperature control mixing valve listed under ASSE 1069 is approved and shall be provided at groupings of fixtures, i.e., gang showers or gang lavatories that supply tempered water through a single supply pipe.
- D. The provision of temperature controlled water to emergency shower and eye wash equipment fixtures is approved as detailed in ANSI Z358.1.