



Water Temperature Limiting Devices

The use of water temperature limiting devices has been expanded in the 2007 California Plumbing Code (CPC). The following two requirements are new. CPC Section 413.1 requires that hot water delivered from public-use lavatories is limited to a maximum of 120°F. Likewise, CPC Section 414.5 requires that the maximum hot water temperature discharging from the bathtub and whirlpool bathtub fillers is limited to 120°F. Now all bathtub, whirlpool bathtubs, tub shower combinations and public lavatories must have a maximum delivered water temperature of 120°F. The intent of the code is to prevent scalding.

The code specifically requires an ASSE 1016 valve for showers and tub shower combinations. This valve is pressure balancing, thermostatic mixing and temperature limiting. It will prevent scalding and temperature fluctuation.

For the installation of only a tub or public lavatory the code does not specify the valve. An ASSE 1016 will work because it can limit the delivered temperature. However, the 1016 also is pressure balancing, not really needed for a commercial lavatory or bathtub filling.

In commercial work all lavatories shall be protected. A single valve may protect several lavatories. Please note that the lavatory requirement is only for public use lavatories such as a commercial installation. It is not a requirement in single family dwellings.

Fixture	Required Valve
Bathtubs and Whirlpool Bathtubs	1016 or 1070
Tub Shower Combination	1016
Public Lavatories	1016 or 1070

Inspectors will look for the valve installation on the rough and final inspections. Please note that the code does not allow the water heater thermostat to serve this function.