

ANTI-SCALD VALVES

The following valves are certified by the American Society of Safety Engineers and are acceptable for use in the Solar Water Heating Pilot Program.

The choice of which valve(s) to use depends on the site and customer needs. In any event, pressure drop should be a consideration. If water pressure to the valve is low, and there is a long pipe run to taps, seek a valve that has low pressure drop.

ASSE 1016 valves are for points of use (showers and taps).

ASSE 1017 valves are installed just downstream from the conventional water heater. They react to pressure or temperature extremes more rapidly than traditional tempering valves. The output temperature is adjustable, and on some models can be as high as 180°F. They are intended for use where higher temperatures are needed downstream, such as for hydronic space heating, but should be locked at the lowest acceptable temperature.

ASSE 1070 valves can be used in conjunction with ASSE 1017 valves, by providing a 110°F max set point downstream from higher temperature branches, closer to the end-use points.

If for example, the home has a long pipe run from the water heater to a shower, consider an adjustable ASSE 1017 valve, set the temperature at the water heater high enough to deliver sufficient heat to the shower, and install point of use ASSE 1016 devices on taps enroute to the shower to protect against scalding. Or, if feasible, install an ASSE 1070 anti-scald mixing valve where appropriate to limit final temperature to the other taps.

Antiscald Valves		
Manufacturer	Model	ASSE Rating
SPARCO	AM Series	1016, 1017
	Sparcomix AM Series	1016, 1017
TACO	5000 (85° - 145°F, Lockable)	1017
ANTI-SCALD	Scaldshield Mini TMV (point of use)	1016
CASH ACME	Heatguard 110D TMV	1017
	100 Series	1017
	115D Series	1017
POWERS-HYDROGUARD	480 Series (point of use, 105°F limit, 4 GPM, LM)	1016
	490 Series (23 GPM)	1017
WATTS	L111	1016, 1017
	1170-M2 (60°-120°F)	1016, 1017
	L1170-M2 (60°-120°F)	1016, 1017
	L1170 (90°-160°F)	1016, 1017
	1171 (90°-160°F)	1016, 1017
	USG	1016, 1017

Note. These are some of numerous ASSE-certified anti-scald valves available. This is not implying endorsement. Each manufacturer offers at least a few types and temperature adjustment capabilities. Pressure drop characteristics vary.