

COMPARISON OF ASSE STANDARDS APPLICABLE TO SHOWERING AND TEMPERING

FEATURES/TESTS	STANDARDS						
	ASSE 1016	ASSE 1017	ASSE 1062	ASSE 1070	ASSE 1069	ASSE 1066	
Application >	Shower Valve	Distribution	High Temp. Shut-off	Hot Water Limiting	Single Temp. Bath	In-Line Press. Bal.	
Powers Products	P900, P410, e420-T/P, e700-T/P, e480-T/P, LM495-T	430, 1430, LM490	HT115	LM490	e480-T/P, LM495	410-0063	
Control Accuracy	$\pm 3.6^\circ\text{F}$ after 5 seconds	$< 6\text{ GPM} - \pm 3^\circ\text{F}$ $< 41 - \pm 5^\circ\text{F}$ 41 GPM - $\pm 7^\circ\text{F}$	5 Sec. Response for shut-off	$\pm 7^\circ\text{F}$ - "NOT intended for Thermal Shock"	$\pm 3.6^\circ\text{F}$ after 5 seconds	$\pm 3.6^\circ\text{F}$	
High Temp Limit	120° F	None	120° F	120° F	120° F	None	
Spikes allowed in first 5 seconds?	Yes - P < 1 sec T < 1.5 sec.	Not Applicable	Not Applicable	Not Applicable	Limited and < 1 sec.	None allowed	
Temp. Variation	P - None T and T/P - 25°F	25°F	Not Applicable	25°F	25°F	None	
Pressure Variation	P - 50%, T - 20% T/P - 50%	None	Not Applicable	20%	20%	50%	
Bather Control of Temp?	Yes	No	No	Not Likely	No	No	
Flow Rate for Temp. Control	2.5 GPM	50% of flow @ 10 psi. diff.	2 to 4 GPM - device dependent	Advertised Min. Flow	Lesser of 2.5 GPM OR Adv. Min. Flow	Flow @ 45 psi. diff. approx.	
Mandatory Point of Use	Yes	No	Yes	No	No	No	
CW Failure Test @ .5 GPM max.	Yes	No	Yes (< .25 GPM)	Yes (.2 GPM)	Yes	No	
Life Cycle Test @ 100,000 cycles	Yes (20,000 cycles)	No	Yes (125,000 cycles)	Yes	Yes	Yes	
High Temp. Test @ 180° F	Yes	Yes-200° F	Yes - 200° F	Yes	Yes	Yes	
Working Press. Test @ 125 psi.	Yes	Yes	No	Yes	Yes	No	
Flow Capacity Test - > 90% to pass	Yes (min. 2.25)	No	Yes	Yes	Yes	Yes	
Cross Flow Test	No	No	No	Yes	Yes	Yes	
Hydro. Press. Test @ 500 psi. 1 min.	Yes	No	Yes - 250 psi	Yes	Yes	Yes - 250 psi	

5/10/2007

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