



# model TWBS.EWE

AXION® Thermostatic Mixing Valves

## FEATURES & BENEFITS

### BYPASS

Best-in-class cold water bypass flow (83% of rated tempered water flow) means continued protection under adverse conditions.

### POSITIVE SHUT OFF

Actively suspends hot water flow when cold water supply is lost to protect against scalding.

### PRESSURE DROP

Lowest internal pressure drop for this valve class – essential where supply pressure is low.

### OPERATING RANGE

Minimal outlet temperature variation is achieved by having the best minimum flow rate in the industry.

### SHUTTLE DESIGN

Superior shuttle design combined with premium material selection eliminates valve binding and reduces maintenance costs.

### MIXING CHAMBER

Innovative funnel design generates turbulent flow to ensure consistent temperature blending across entire flow range.

### LEAD FREE

Certified to NSF61 and California Health and Safety Code 116875 (AB 1953-2006).

### FLOW RATES

Flow range of 1 to 12 GPM (45.4 L) provides service for one or two safety eyewashes to reduce hardware costs.

### ANTI-SCALD PROTECTION

Redundant anti-scald protection with internal cold water bypass ensures reliable protection. Main tempering valve provides primary protection while backup shutoff valve provides secondary high-temp protection. Internal cold water bypass supplies cold water if hot water supply or main tempering valve fails.

### MEDICALLY SUPERIOR RESPONSE

AXION's superior design and technology provide a complete safety solution for increased victim comfort.

### EXTENDED WARRANTY

3-year extended warranty based on superior engineering and best-in-class material selection means reliable protection you can trust for the long term.



## SPECIFICATIONS

### Model TWBS.EWE - Thermostatic Mixing Valve (patent pending)

	MAXIMUM		MINIMUM	
Flow Rate	12 GPM	45.4 LPM	1 GPM	4 LPM
Hot Inlet Temperature	180° F	82° C	120° F	49° C
Recommended Hot Inlet Temperature	140° F	60° C		
Cold Inlet Temperature	70° F	21° C	40° F	4° C
Adjustable Outlet Temperature Range	90° F	32° C	60° F	16° C
Operating Pressure	125 PSI	8.6 BAR		
Factory Temperature Set Point	85° F	29° C		
Cold Water Bypass	10 GPM	37.8 LPM @ 30 PSI		

Inlet Ports: 1/2" NPT(f) Outlet Port: 3/4" NPT(F)

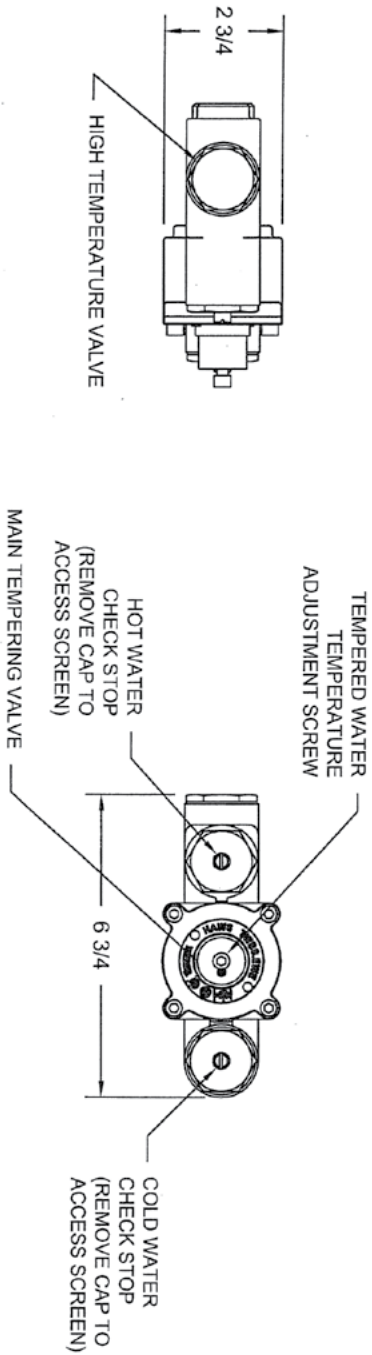
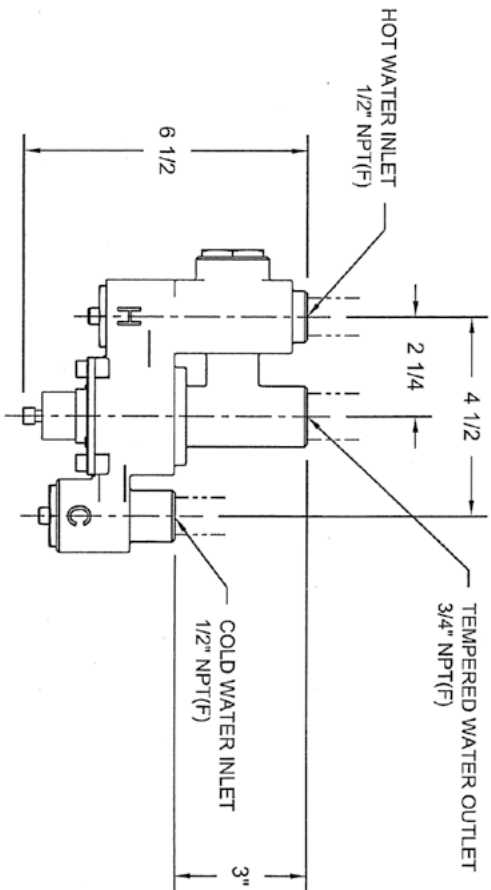
Maximum Inlet Pressure Differential: +/- 10%

Listings: ASSE 1071, CSA B125.3, NSF/ANSI 61-section 8, NSF/ANSI 372, California Health and Safety Code 116875 (AB 1953-2006).

## FLOW CAPACITIES

MODEL	INLET	OUTLET	MINIMUM FLOW	INTERNAL COLD WATER BY-PASS AT 30PSI DROP	PRESSURE DROP							
					5	10	15	20	30	45	60	PSI
TWBS.EWE	1/2"	3/4"			.345	.689	1.03	1.38	2.07	3.10	4.13	BAR
			1	10	4.9	6.9	8.5	9.8	12	14.7	17	GPM
			4	38	18.5	26.1	32.2	37.1	45	55.6	64.4	L/MIN





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ECN NO. REVISED PER BY:	MODEL(S)	TWBS: EWE	PART NUMBER
4593 ECK 4596 VWC			0002090230.D
DRAWN: DATE: ICBZ			DRAWING NO. REV
APPROVED: DATE: VJL			18050A 4
SCALE: 1:4	DRAWING TYPE: INSTALLATION	SIZE: A	SHEET: 1 OF 1