

**Haws®**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)**

	<b>MAXIMUM</b>	<b>MINIMUM</b>	
Flow Rate	12 GPM	45.4 LPM	1 GPM
Hot Inlet Temperature	180° F	82° C	120° F
Recommended Hot Inlet Temperature	140° F	60° C	
Cold Inlet Temperature	70° F	21° C	40° F
Adjustable Outlet Temperature Range	90° F	32° C	60° F
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)

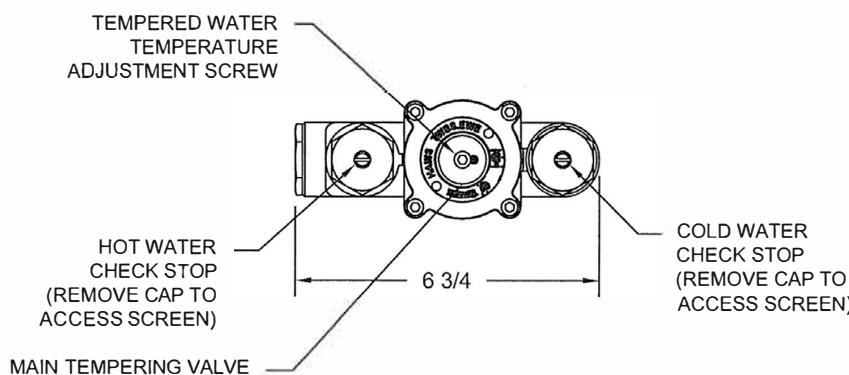
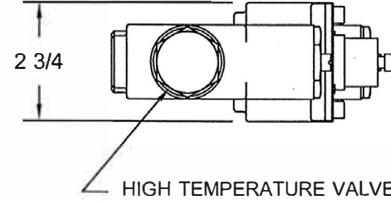
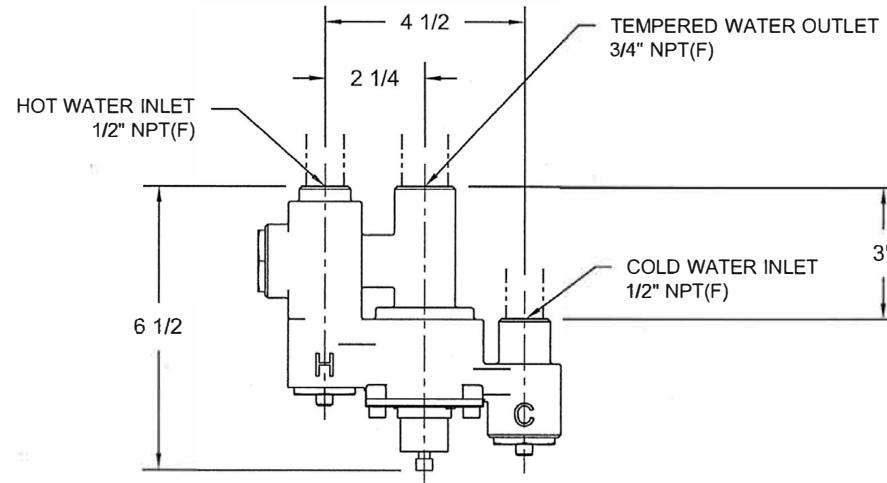
Maximum Inlet Pressure Differential: +/- 10%

Listings: ASSE 1071, ANSI Z358.1, 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

ASSE 1071  
LLC  
NSF/ANSI 61



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ECN NO.	REVISED PER	BY	MODEL(S)	PART NUMBER
4303	ECN: 4596	VWC	TWBS.EWE	0002080230.D
DRAWN: VWC	DATE: 9/2/10	CHECKED:		DRAWING NO. REV
APPROVED: CFC	DATE:		SCALE: 1:4	16050A 4
			DRAWING TYPE: INSTALLATION	SIZE: A SHEET 1 OF 1