

FEATURES & BENEFITS

BYPASS

Best-in-class cold water bypass flow (65% of rated tempered water flow) means continued protection even if hot water flow is interrupted.

COLD SHUT OFF PROTECTION

In the event that the cold water supply is interrupted or shut off, this thermostatic mixing valve reduces scalding potential by automatically reducing the hot water flow below the ASSE 1071 standard maximum of 1.0 GPM @ 30 PSID.

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 74 gpm (280 L) provides service for multiple emergency combination showers or multiple eyewashes to reduce hardware costs.

REDUNDANT SCALD PROTECTION

In the event of primary valve thermostat failure, this valve is equipped with a redundant thermostat and soft seat hot water shut-off valve to further protect against potential for scalding.

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.SHE - Thermostatic Mixing Valve (patent pending)

	MAXIMUM		MINIMUM	
Flow Rate	74 GPM	280 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	85° F	29° C	60° F	16° C
Operating Pressure	125 PSI	8.6 BAR		
Factory Temperature Set Point	85° F	29° C		
Cold Water Bypass	50 GPM	189 LPM @ 30 PSI		

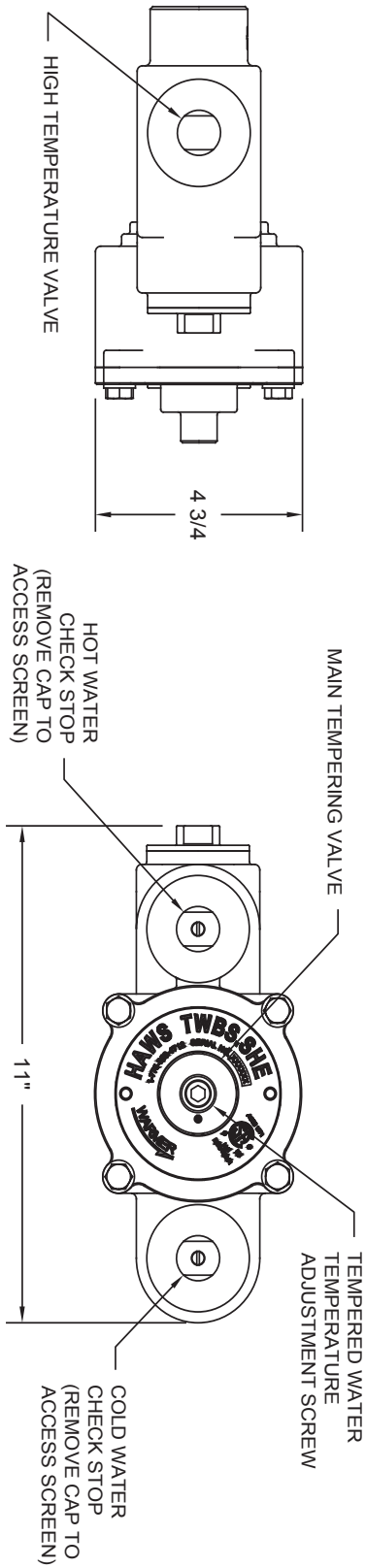
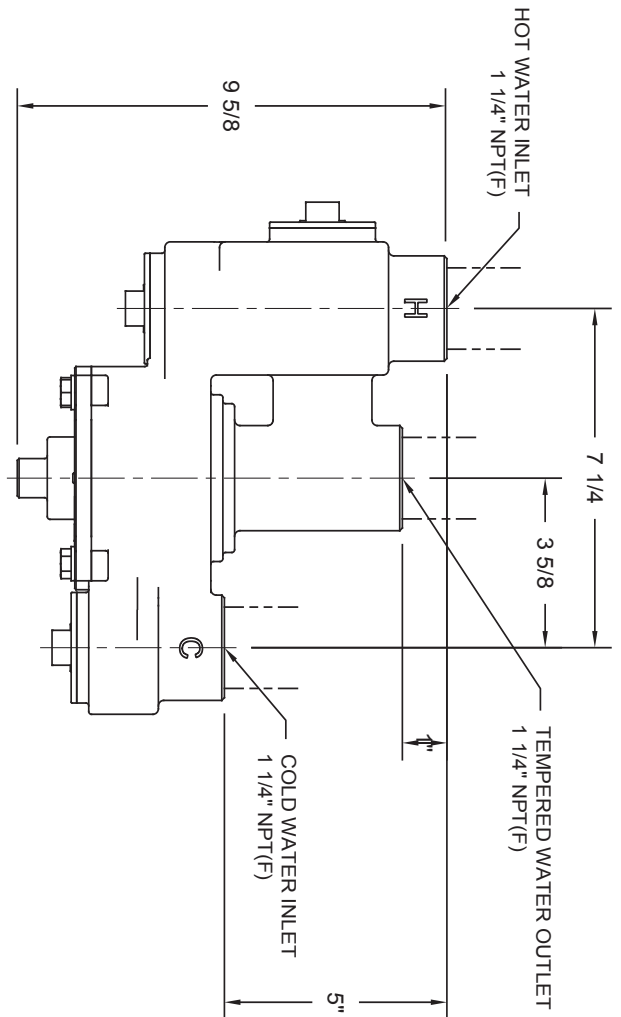
Inlet Ports: 1-1/4" NPT(f) Outlet Port: 1-1/4" NPT(F)

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							
TWBS.SHE	1-1/4"	1-1/4"			5	10	15	20	30	45	60	PSI
					.345	.689	1.03	1.38	2.07	3.10	4.13	BAR
			1	50	30	43	52	60	74	91	105	GPM
			4	189	114	163	197	227	280	344	397	L/MIN



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ECN:00 REVISED RELEV: MODEL(S)

DRAWN: 4396 EON: 5415 FV: DATE: 8-13-10 CHKD: DP:

WVC: 8-13-10 DP: TWBS.SHE

APPROVED: NE DATE: 04/28/19 SCALE: 1/4 DRAWING TYPE: INSTALLATION

SIZE: A 1 SHEET 1 OF 1

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