



BYPASS

COLD SHUT OFF PROTECTION

PRESSURE DROP

OPERATING RANGE

SHUTTLE DESIGN

MIXING CHAMBER

LEAD FREE

FLOW RATES

REDUNDANT SCALD PROTECTION

MEDICALLY SUPERIOR RESPONSE

EXTENDED WARRANTY

A detailed view of a HAWES TWBSEW hydraulic valve. The valve is constructed from a dark, textured metal, likely brass or bronze, and features a complex, multi-ported design. A central circular label prominently displays the brand name 'HAWES' and the model 'TWBSEW'. The valve is shown from a perspective that highlights its various connection points and the robust construction of its body.

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

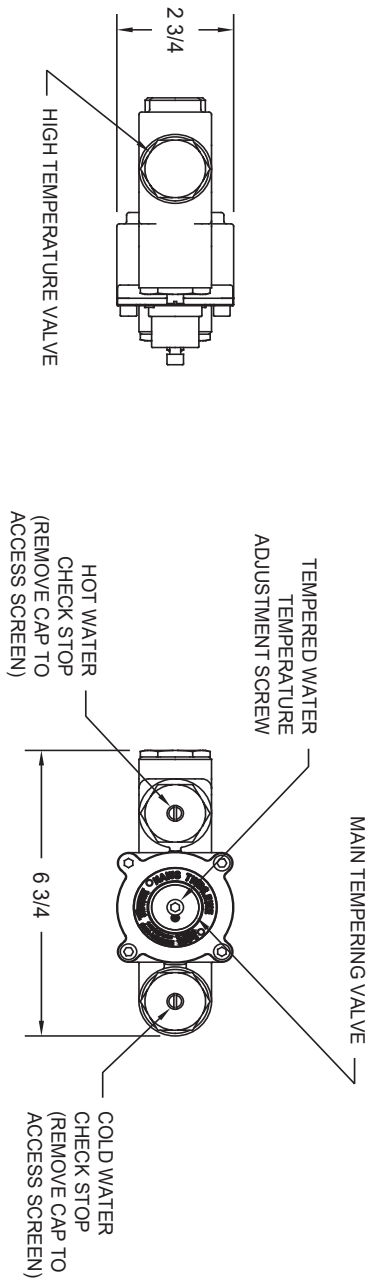
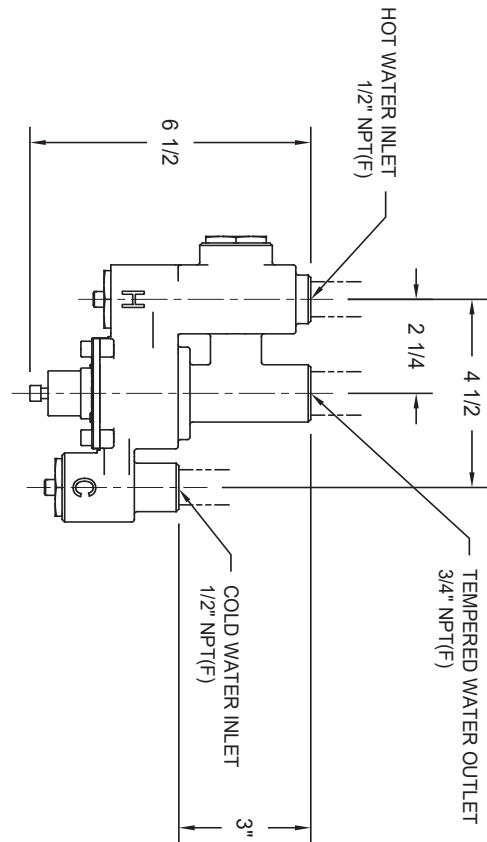
	MAXIMUM		MINIMUM	
Flow Rate	12 GPM	45.4 LPM	1 GPM	4 LPM
Hot Inlet Temperature	180° F	82° C	120° F	49° C
Recommended Hot Inlet Temperature	140° F	60° C		
Cold Inlet Temperature	70° F	21° C	40° F	4° C
Adjustable Outlet Temperature Range	90° F	32° C	60° F	16° C
Operating Pressure	125 PSI	8.6 BAR		
Factory 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%

FLOW CAPACITIES

MODEL	INLET	OUTLET	MINIMUM FLOW	INTERNAL COLD WATER BY-PASS AT 30PSI DROP	PRESSURE DROP							
TWBS.EWE	1/2"	3/4"			5	10	15	20	30	45	60	PSI
					.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
4303 ECN:5415 FV			002080230.D
DRAWN: DATE: CHK'D:			REVISION
VWC 9/2/10 DP			6
APPROVED: DATE:	SCALE: 1:1	DRAWING TYPE: INSTALLATION	SIZE: A SHEET 1 OF 1
ME 04/08/10			