



model TWBS.HF

AXION® Thermostatic Mixing Valves

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).

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.

FLOW RATES

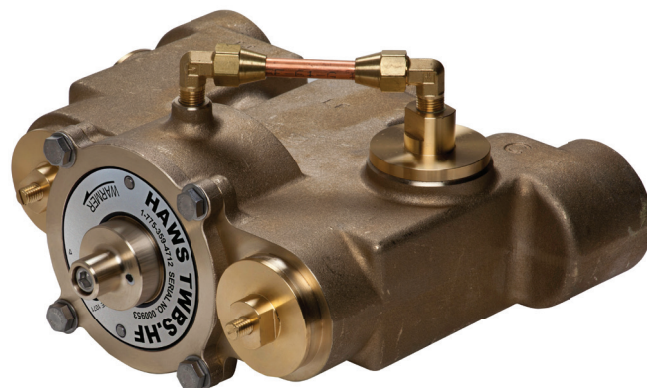
Flow range of 1 to 78 gpm (295 L) provides service for multiple emergency combination showers or multiple eyewashes to reduce hardware costs.

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.HF - Thermostatic Mixing Valve (patent pending)

| | MAXIMUM | | MINIMUM | |
|-------------------------------------|---------|------------------|---------|-------|
| Flow Rate | 78 GPM | 295 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 | 79 GPM | 299 LPM @ 30 PSI | | |

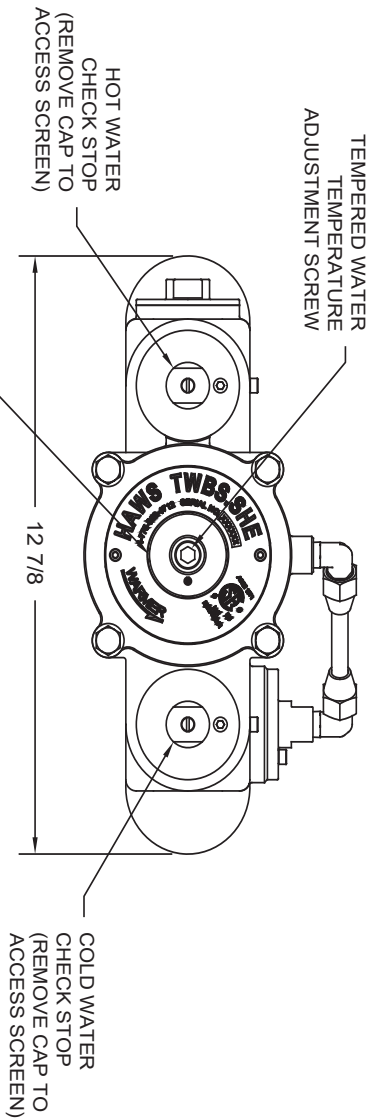
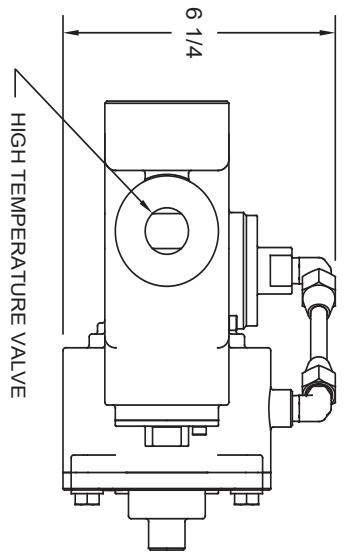
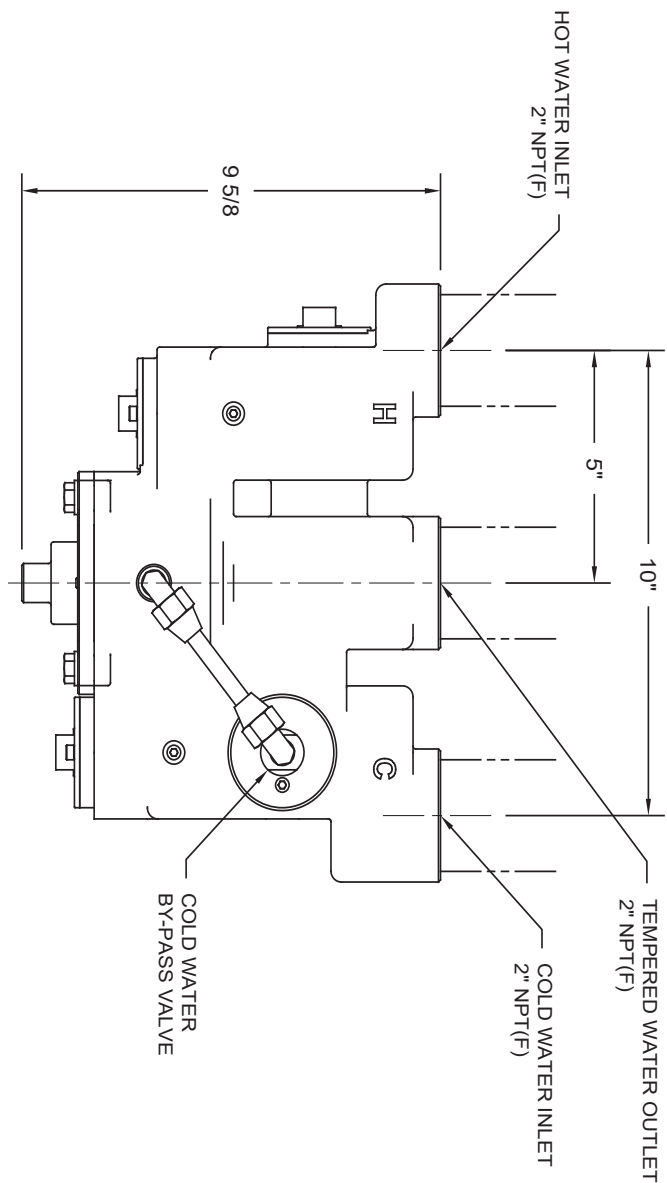
Inlet Ports: 2" NPT(f) Outlet Port: 2" NPT(F)


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.HF | 2" | 2" | | | 5 | 10 | 15 | 20 | 30 | 45 | 60 | PSI |
| | | | | | .345 | .689 | 1.03 | 1.38 | 2.07 | 3.10 | 4.13 | BAR |
| | | | 1 | 79 | 32 | 45 | 55 | 64 | 78 | 95 | 110 | GPM |
| | | | 4 | 299 | 121 | 170 | 280 | 242 | 295 | 360 | 416 | L/MIN |



| | | | | | |
|--|--|-----------------------------|-------------------------------|---------|--------------|
|  | | MODEL(S) TWBS.HF | | | |
| | | PART NUMBER 0002080229.D | | | |
| EQ. NO. 1455 KLEPPE LANE SPARKS, NEVADA 89431 (775) 359-4712 FAX (775) 359-7424 E-MAIL: HAWS@HAWS.CO.COM WEBSITE: WWW.HAWS.CO.COM | REVISED PER BY: WWC DATE: 04/08/19 | SCALE: 1/4" | DRAWING TYPE: INSTALLATION | SIZE: A | SHEET 1 OF 1 |