



# model 9201H

## Thermostatic Mixing Valves

### FEATURES & BENEFITS

#### BYPASS

Highest Cold Water Bypass flow rate by class in the industry (65% of the rated tempered water flow rate).

#### PRESSURE DROP

Lowest internal pressure drop for this class of valve translates into a significant advantage in installations where the supply pressure is low.

#### OPERATING RANGE

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

#### SHUTTLE DESIGN

Valve binding, which is common in the industry, is virtually eliminated by material selection and advanced shuttle design.

#### MIXING CHAMBER

Efficient funnel design with turbulent hot water passages to improve mixing at low flow rates and to enhance temperature control.

#### DEPOSITS RESISTANT

Lime and Calcium resistant components are used throughout the construction.

#### FLOW RATES

With a flow range of 1 to 31 gpm (117.3 L), this valve can be used for multiple eyewashes or for an emergency shower.

#### LEAD FREE

System is certified to NSF61 and the California Health and Safety Code 116875 (AB 1953-2006).

#### ANTI-SCALD PROTECTION

Redundant anti-scald protection; primary protection comes from the main tempering valve. An additional high temperature shut-off valve provides a secondary level of protection; the internal cold water bypass takes over to supply cold water in the event of a hot water pressure loss or main tempering valve failure.

#### EXTENDED WARRANTY

Superior engineering incorporated into this product carries an extended 3-year warranty.



### SPECIFICATIONS

Model 9201H (patent pending) is a lead-free thermostatic mixing valve that mixes hot and cold water to supply tempered water to emergency shower and eyewash fixtures requiring flow up to 31 gpm (117.3 L). Unit employs two paraffin filled thermostatic mixing elements. Lowest internal pressure drop where supply pressure is low, and a high Cold Water Bypass flow rate of 20 gpm (75.7 L). A 0.0 gpm hot water flow if cold supply fails. The modular brass design with a one piece casting uses internal check stops, oversized valve seats, a shuttle design that eliminates valve sticking, and a funnel design to improve temperature control with better mixing at low flow rates. Lime and calcium resistant components are used throughout. The outlet temperature factory setting is 85° F (26° C). Maximum operating pressure: 125 psi (8.62 Bar). Temperature adjustment range 60 - 95° F (16 - 35° C). Temperature adjustment range 60 - 95° F (15 - 35° C). Min/max inlet hot water temperature: 120°/180°F (49°/82°C), with recommended inlet temperature: 140°F (60°C). Min/max inlet cold water temperature: 40°/70°F (4.4°/21.1°C). Inlets 1" NPT(F). Outlet 1-1/4" NPT(F).

Hot water inlet pressure must be within +/- 10% of the cold inlet pressure.

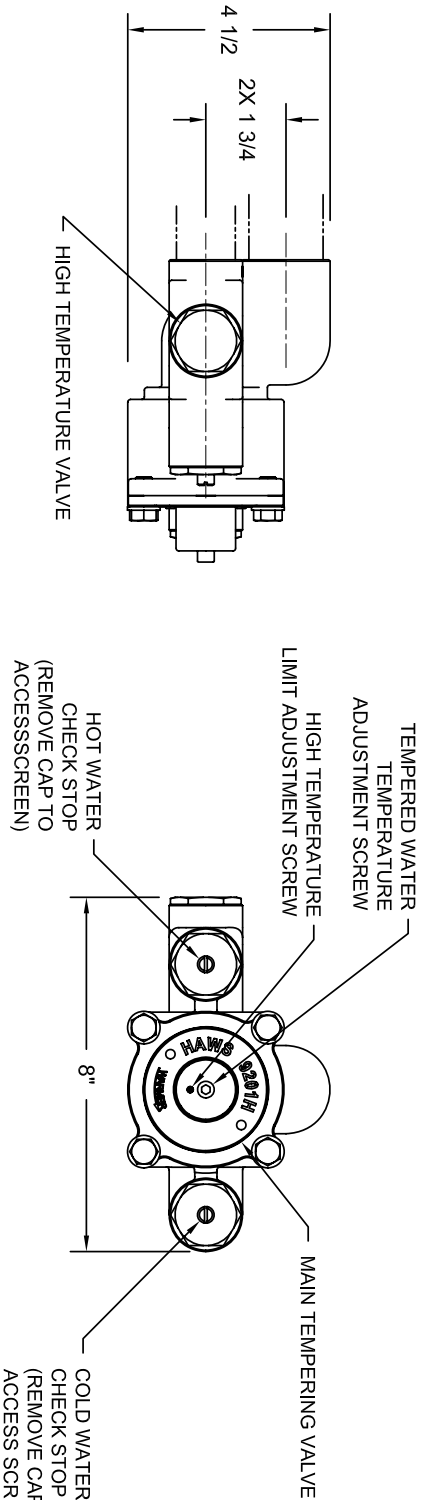
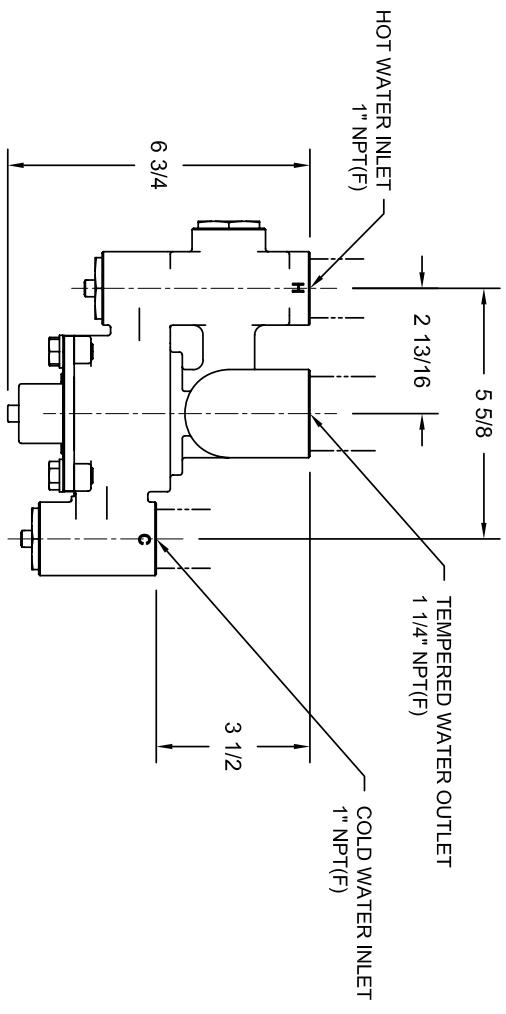
Listings: ASSE 1071, CSA B125.3, NSF/ANSI 61-section 8, California Health and Safety Code 116875 (AB 1953-2006).

### FLOW CAPACITIES

| MODEL | INLET | OUTLET | MINIMUM FLOW | INTERNAL COLD WATER BY-PASS AT 30PSI DROP | PRESSURE DROP |      |      |      |      |      |      |      |      |      |       |
|-------|-------|--------|--------------|---|---------------|------|------|------|------|------|------|------|------|------|-------|
|       |       |        |              |   | 1             | 2    | 5    | 10   | 15   | 20   | 25   | 30   | 45   | 60   | PSI   |
| 9201H | 1"    | 1-1/4" |              |   | .069          | .138 | .345 | .689 | 1.03 | 1.38 | 1.72 | 2.07 | 3.10 | 4.13 | BAR   |
|       |       |        | 1            | 20  | 6             | 8    | 13   | 18   | 22   | 25   | 28   | 31   | 40   | 44   | GPM   |
|       |       |        | 4            | 76  | 23            | 30   | 49   | 68   | 83   | 95   | 106  | 117  | 151  | 167  | L/MIN |
|       |       |        |              |   |               |      |      |      |      |      |      |      |      |      |       |



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|--------------------------|--------------------------|----------------------------|
| EQ. NO. REVISED PER: N/A | MODEL(S)                 | 9201H                      |
| DATE: 4/20/07            | SCALE: 1/4"              | DRAWING TYPE: INSTALLATION |
| APPROVED: [Signature]    | SIZE: A                  | SHEET 1 OF 1               |
| DRAWING NO. 16054A       | PART NUMBER 0002080235 D | REV 1                      |