

AXION[®] THERMOSTATIC MIXING VALVES



The Haws[®] line of AXION thermostatic mixing valves are designed specifically for tempered water blending in emergency equipment.



AXION® THERMOSTATIC MIXING VALVES

All of the AXION thermostatic mixing valves are a modular, brass design construction with a one-piece casting that uses internal check stops, oversized valve seats, and a shuttle design that

virtually eliminates valve binding. AXION's superior design and technology provide a complete safety solution for increased victim comfort.

FEATURES & BENEFITS

- Lowest internal pressure drop for this class of valve
- Custom shuttle design to virtually eliminate valve binding
- Offering NSF 372 and AB1953, reduction of lead content, compliance in select models
- Funnel design improves temperature control with better mixing at low flow rates
- Highest Cold Water Bypass flow rate by class in the industry
- Actively suspends hot water when cold water supply is lost to protect against scalding
- Lime and calcium resistant components used throughout the construction
- Extended 3-year warranty



Model 9201E

For emergency shower and eyewash fixtures.

- Flow Rate: 31 GPM (117 LPM) max, 1 GPM (4 LPM) min
- Hot Inlet Temp: 180° F (82° C) max, 120° F (49° C) min
- Cold Inlet Temp: 70° F (21° C) max, 40° F (4° C) min

CSA Certified to ASSE 1071 and applicable sections of CSA B125.3.



Model 9201EW

For emergency eyewash fixtures.

- Flow Rate: 10 GPM (38 LPM) max, 1 GPM (4 LPM) min
- Hot Inlet Temp: 180° F (82° C) max, 120° F (49° C) min
- Cold Inlet Temp: 65° F (18° C) max, 40° F (4° C) min

CSA Certified to ASSE 1071 and applicable sections of CSA B125.3.

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 |
| 9201E | 1-1/4" | 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 | 38 | 44 | GPM |
| | | | 4 | 76 | 22 | 30 | 48 | 68 | 83 | 96 | 107 | 117 | 144 | 166 | L/MIN |

| 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 |
| 9201EW | 1/2" | 1/2" | | | .069 | .138 | .345 | .689 | 1.03 | 1.38 | 1.72 | 2.07 | 3.10 | 4.13 | BAR |
| | | | 1 | 4 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | GPM |
| | | | 4 | 14 | 7 | 10 | 16 | 22 | 27 | 31 | 34 | 38 | 44 | 53 | L/MIN |



Model 9201EFE

For emergency eyewash fixtures.

- Flow Rate: 12 GPM (45 LPM) max, 1 GPM (4 LPM) min
 - Hot Inlet Temp: 180° F (82° C) max, 120° F (49° C) min
 - Cold Inlet Temp: 70° F (21° C) max, 40° F (4° C) min
- CSA Certified to ASSE 1071 and applicable sections of CSA B125.3.

Model 9202E

For emergency eyewash and shower fixtures.

- Flow Rate: 78 GPM (295 LPM) max, 1 GPM (4 LPM) min
 - Hot Inlet Temp: 180° F (82° C) max, 120° F (49° C) min
 - Cold Inlet Temp: 70° F (21° C) max, 40° F (4° C) min
- CSA Certified to ASSE 1071 and applicable sections of CSA B125.3.

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 |
| 9201EFE | 1/2" | 3/4" | | | .069 | .138 | .345 | .689 | 1.03 | 1.38 | 1.72 | 2.07 | 3.10 | 4.13 | BAR |
| | | | 1 | 10 | 2 | 3 | 5 | 7 | 9 | 10 | 11 | 12 | 15 | 17 | GPM |
| | | | 4 | 38 | 8 | 12 | 19 | 26 | 32 | 37 | 41 | 45 | 56 | 64 | L/MIN |

| 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 |
| 9202E | 1-1/4" | 1-1/4" | | | .069 | .138 | .345 | .689 | 1.03 | 1.38 | 1.72 | 2.07 | 3.10 | 4.13 | BAR |
| | | | 1 | 50 | 14 | 20 | 32 | 45 | 55 | 64 | 71 | 78 | 95 | 110 | GPM |
| | | | 4 | 299 | 53 | 76 | 121 | 170 | 280 | 242 | 269 | 295 | 360 | 416 | L/MIN |



Model TWBS.HF

Lead-free brass design for emergency shower and eyewash fixtures.

- Flow Rate: 78 GPM (295 LPM) max, 1 GPM (4 LPM) min
- Hot Inlet Temp: 180° F (82° C) max, 120° F (49° C) min
- Cold Inlet Temp: 70° F (21° C) max, 40° F (4° C) min
- Pressure sensing diverter valve provided that sends a pressure signal to open cold water bypass valve if hot water loses pressure
- Triple redundant anti-scald protection

CSA certified to ASSE 1071, NSF/ANSI 61 & 372, California Health and Safety Code 116875 (AB 1953) and applicable sections of CSA B125.3.

Model TWBS.SHE

Lead-free brass design for emergency eyewash fixtures.

- Flow Rate: 74 GPM (280 LPM) max, 1 GPM (4 LPM) min
 - Hot Inlet Temp: 180° F (82° C) max, 120° F (49° C) min
 - Cold Inlet Temp: 70° F (21° C) max, 40° F (4° C) min
 - Redundant anti-scald protection with additional hot shut-off valve providing secondary level of protection
- CSA certified to ASSE 1071, NSF/ANSI 61 & 372, California Health and Safety Code 116875 (AB 1953) and applicable sections of CSA B125.3.

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 |
| TWBS.HF | 2" | 2" | | | .069 | .138 | .345 | .689 | 1.03 | 1.38 | 1.72 | 2.07 | 3.10 | 4.13 | BAR |
| | | | 1 | 79 | 14 | 20 | 32 | 45 | 55 | 64 | 71 | 78 | 95 | 110 | GPM |
| | | | 4 | 299 | 53 | 76 | 121 | 170 | 280 | 242 | 269 | 295 | 360 | 416 | L/MIN |

| 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 |
| TWBS.SHE | 1-1/4" | 1-1/4" | | | .069 | .138 | .345 | .689 | 1.03 | 1.38 | 1.72 | 2.07 | 3.10 | 4.13 | BAR |
| | | | 1 | 50 | 13 | 19 | 30 | 43 | 52 | 60 | 68 | 74 | 91 | 105 | GPM |
| | | | 4 | 189 | 49 | 72 | 114 | 163 | 197 | 227 | 257 | 280 | 344 | 397 | L/MIN |



Model 9201H

Lead-free brass design for emergency shower and eyewash fixtures.

- Flow Rate: 31 GPM (117 LPM) max, 1 GPM (4 LPM) min
 - Hot Inlet Temp: 180° F (82° C) max, 120° F (49° C) min
 - Cold Inlet Temp: 70° F (21° C) max, 40° F (4° C) min
 - Redundant anti-scald protection with additional hot shut-off valve providing secondary level of protection.
- CSA Certified to ASSE 1071, NSF/ANSI 61 & 372, California Health and Safety Code 116875 (AB 1953) and applicable sections of CSA B125.3.

Model TWBS.EWE

Lead-free brass design for emergency eyewash fixture.

- Flow Rate: 12 GPM (45 LPM) max, 1 GPM (4 LPM) min
 - Hot Inlet Temp: 180° F (82° C) max, 120° F (49° C) min
 - Cold Inlet Temp: 70° F (21° C) max, 40° F (4° C) min
 - Redundant anti-scald protection with additional hot shut-off valve providing secondary level of protection.
- CSA certified to ASSE 1071, NSF/ANSI 61 & 372, California Health and Safety Code 116875 (AB 1953) and applicable sections of CSA B125.3.

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 | 38 | 44 | GPM | | |
| | | | 4 | 76 | 23 | 30 | 49 | 68 | 83 | 95 | 106 | 117 | 144 | 167 | L/MIN | | |

| 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 | | |
| TWBS.EWE | 1/2" | 3/4" | | | .069 | .138 | .345 | .689 | 1.03 | 1.38 | 1.72 | 2.07 | 3.10 | 4.13 | BAR | | |
| | | | 1 | 10 | 2 | 3 | 5 | 7 | 9 | 10 | 11 | 12 | 15 | 17 | GPM | | |
| | | | 4 | 38 | 8 | 12 | 19 | 26 | 32 | 37 | 41 | 45 | 56 | 64 | L/MIN | | |

AXION[®] TEMPERED WATER...

...the *Medically Superior Response*[®]

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Haws HQ • www.hawsc.com • +1.888.640.4297

Mexico/Central America

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South America

Avlis By Haws • www.hawsavlis.com.br • +55.11.4813.9977

Asia Pacific

Haws Singapore • www.haws.sg • +65.6367.0359

Europe/Middle East/Africa

Haws Switzerland • www.haws.ch • +41 (0) 34.420.6000

