

# AXION<sup>®</sup> THERMOSTATIC MIXING VALVES



The Haws<sup>®</sup> line of AXION<sup>®</sup> 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

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