



EMERGENCY MIXING VALVES ECO-MIX™

**Cabinet Assembly for Drench or Combination
Emergency Shower**
3 - 56 GPM (11 - 212 l/min) flow rate
up to 45 PSI (3.1 bar) system pressure drop

TM-850-LF-STSTL-EXP DUAL MANIFOLD EMERGENCY MIXING VALVE SYSTEM WITH TEMPERATURE OVERRIDE PROTECTION

ASSE 1071 Certified 
CSA Certified 
TM-850-LF-STSTL-EXP

PRIMARY EMERGENCY WATER MIXING VALVE

- DURA-trol® solid bimetal thermostat directly linked to valve porting to control the intake of hot and cold water and compensate for supply temperature and pressure fluctuations. DURA-trol® is highly responsive and cannot be damaged by extremes in temperature
- Primary Mixing Valve can be set to the correct temperature for the application.
- Locking temperature regulator to prevent accidental movement set for 85°F (29°C)
- Primary valve will close down on failure of cold water supply
- Primary valve with special built in cold water bypass capable of 20 GPM (76 l/min) @ 30 PSI (2.1 Bar) upon failure of hot water supply
- Adjustable high temperature limit stop set for 90°F (32°C)
- Full 1 1/4" top inlets and 1 1/4" top outlet
- Integral wall support
- Dial thermometer (0 to 140°F, -10 to 60°C)
- Rough bronze finish
- Exposed stainless steel cabinet with hinged door and cylinder lock
- Compliance.....ANSI Z358.1

REDUNDANT THERMOSTATIC MIXING VALVE

- Stainless steel bellows thermostat is factory locked @ 90°F, 32°C (adjustable from (40°F to 100°F), (4°C to 32°C)) to allow cold water to enter the outlet side of the Primary mixing valve.
- Remains fully closed until outlet temperature reaches 90°F (32°C)
- Will keep maximum temperature at 90°F should primary valve allow water in excess of 90°F (32°C)
- Maximum supply temperature 180°F (82°C)
- Maximum supply pressure 125 PSI (8.6 Bar)

OPTIONS

- ___ SUFFIX BWE REC- Steel cabinet, baked white enamel recessed
- ___ SUFFIX STSTL REC- Stainless Steel recessed cabinet
- ___ SUFFIX BWE EXP- Exposed cabinet, baked white enamel
- ___ SUFFIX STSTL EXP- Exposed cabinet, Stainless steel
- ___ SUFFIX SEMI- Semi-recessed frame 4" deep
- ___ SUFFIX VIEW- View port on door
- ___ SUFFIX IT- Inlet thermometers

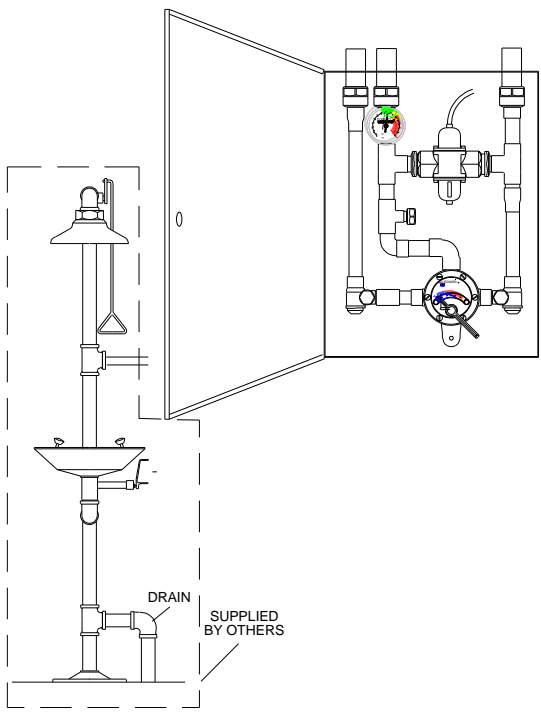
NOTE: Performance specifications above applicable when valve is tested to conditions specified per ASSE 1071



WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov



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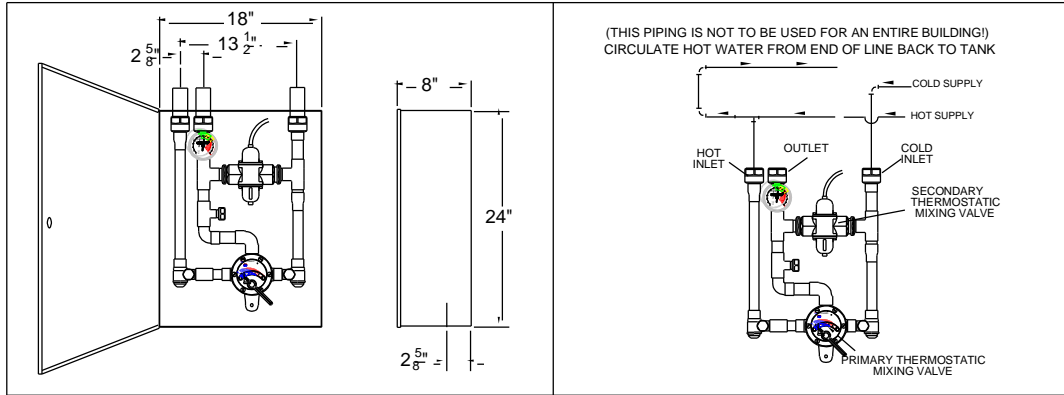
This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight

Engineer's Approval	Job # _____
	Arch/Eng. _____
	Contractor _____

CAUTION! All thermostatic water mixing valves have limitations. They will NOT provide the desired accuracy outside of their flow capacity range. Consult the Flow Capacity Chart and DO NOT OVERSIZE. Minimum flow must be no less than as indicated.

***NOTE:** A limit stop, set for 90°F (32°C), is simply a mechanical setting to prevent excessive handle rotation. If incoming water is hotter than 135°F (57°C), the temperature of the factory test, the valve when turned to full HOT may deliver water in excess of 90°F and the limit stop MUST BE RESET BY THE INSTALLER

EMERGENCY WATER MIXING VALVE FOR DRENCH OR COMBINATION EMERGENCY SHOWER



CAUTION! It may be necessary to recirculate the tempered water to the emergency shower should the piping be exposed to excessive hot or cold conditions. Consult factory for proper piping.

FLOW CAPACITIES

MODEL	IN	OUT	MINIMUM FLOW (GPM)	INTERNAL COLD WATER BY-PASS MINIMUM	PRESSURE DROP										PSI
					5	10	15	20	25	30	35	40	45	BAR	
TM-850-LF	1-1/4"	1-1/4"	3	20	20	25	30	33	35	38	43	50	56	GPM	
			11	76	76	95	114	125	132	144	163	189	212	L/MIN	
MAXIMUM FLOW CAPACITY															

The Emergency eye/face wash Mixing Valve shall control and maintain the temperature of the water to the station. Unit shall be self contained and include a thermostatic water mixing valve, a dial thermometer on the outlet, angle checkstops, wall mounting bracket, piping and fittings factory assembled and tested, top or bottom inlets and top outlet, unit set for 85°F (29°C) and a maximum temperature of 90°F (32°C). The redundant valve remains fully closed until outlet temperature reaches 90°F (32°C), and will keep the maximum temperature at 90°F should the primary valve allow water in excess of this temperature. Unit must be able to be set to the correct temperature for the specific contaminant but must be locked in place to prevent changing of the temperature by accident. Unit must be checked weekly for performance in conjunction with the requirements of ANSI Z358.1. Unit shall be able to flow a minimum flow of 20 GPM (76 l/min) at 30 PSI (2.1 Bar).

WARNING! IT IS THE RESPONSIBILITY OF THE SPECIFIER TO DETERMINE THE DELIVERED WATER TEMPERATURE TO EACH SAFETY FIXTURE. A COMFORTABLE RANGE IS 60°F TO 90°F (15° TO 32°C). IN CIRCUMSTANCES WHERE A CHEMICAL REACTION IS ACCELERATED BY WATER TEMPERATURE, A MEDICAL ADVISOR SHOULD BE CONSULTED FOR THE OPTIMUM TEMPERATURE FOR EACH APPLICATION.

Specifications are subject to change without notice!

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