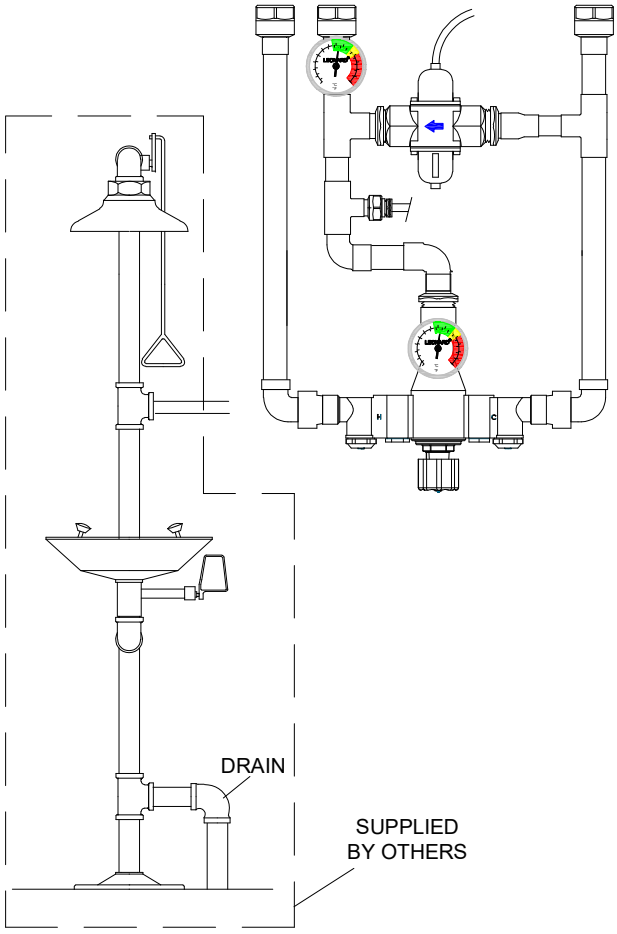
EMERGENCY MIXING VALVE



Primary Mixing Valve is certified to meet Low-Lead requirements of wetted surface area containing less than 0.25% lead by weight. All other fittings and components, the sum total of which comprise the wetted surface of this product, contain less than one quarter of one percent of lead by weight.

Buy American Act COMPLIANT

BUILD AMERICA BUY AMERICA COMPLIANT

MADE IN THE U.S.A.

WARNING: Risk of cancer and reproductive harm from exposure to lead – See www.P65Warnings.ca.gov

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

***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 Mixing Valve for Drench or Combination Units

EXL-850-LF

Dual Manifold Emergency Mixing Valve System with Temperature Override Protection

- High Performance Emergency Mixing Valve designed for drench shower / eye / face wash applications
- Thermostatic Mixing Valve can be set to the correct temperature for the application
- Mixing valve will close down on failure of cold water supply
- Mixing valve with special internal cold water bypass capable of a minimum of 20 GPM (75.7 l/min) @ 30 PSI (2.1 Bar) upon failure of hot water supply
- Adjustable high temperature limit stop * set for 90°F (32°C)
- Locking temperature regulator to prevent accidental movement
- Integral Checkstops on inlets
- Threaded 1" female NPT top inlets
- Threaded 1-1/4" female NPT top outlet
- Rough bronze finish
- Dial thermometers (range 0 to 140°F, -18 to 60°C)
- Compliance……ANSI Z358.1
- Maximum supply temperature 180 °F (82°C)
- Maximum supply pressure 125 PSI (8.6 Bar)

REDUNDANT THERMOSTATIC MIXING VALVE

- Stainless steel bellows thermostat is factory set @ 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 90ºF
- Will keep maximum temperature at or below 90ºF should primary valve allow water in excess of 90ºF (32ºC)

OPTIONS:

____ **IT**- Inlet thermometers (shipped loose)

CABINET OPTIONS, SEE PAGE 3

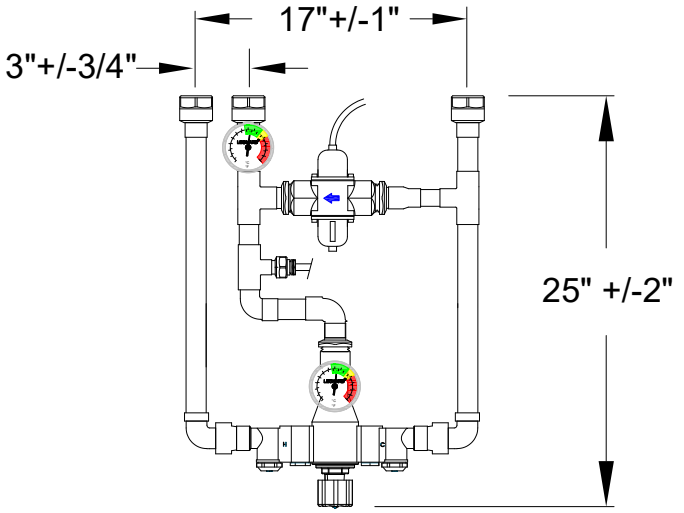
Primary Mixing Valve EXL-800-LF ASSE 1071 Certified

Primary Mixing Valve EXL-800-LF CSA Certified

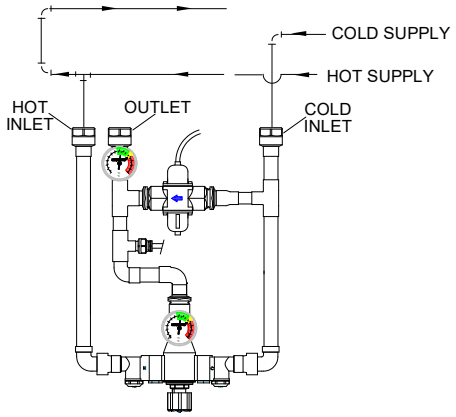
LEONARD WATER TEMPERATURE CONTROLS

1360 Elmwood Avenue, Cranston, RI 02910 USA
Phone: 401.461.1200 Fax: 401.941.5310
Email: info@leonardvalve.com
Web Site: http://www.leonardvalve.com

EXL-850-LF EMERGENCY WATER MIXING VALVE



(THIS PIPING IS NOT TO BE USED FOR AN ENTIRE BUILDING!)
CIRCULATE HOT WATER FROM END OF LINE BACK TO TANK



NOTE: HOT WATER MUST BE INSTALLED ON VALVE INLET MARKED "H"
AND COLD WATER MUST BE INSTALLED ON INLET MARKED "C"

CAUTION! It may be necessary to recirculate the tempered water to the drench / eye/face wash should the piping be exposed to excessive hot or cold conditions. Consult O&M for proper piping.

FLOW CAPACITIES

MODEL	IN	OUT	MINIMUM FLOW (GPM) / L\MIN	INTERNAL COLD WATER BY-PASS AT 30 PSI DROP	PRESSURE DROP 5	10	15	20	25	30	35	40	45	PSI / BAR
					0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	BAR
EXL-850-LF	1"	1-1/4"	3	20	21	29	35	41	46	51	56	59	61	GPM
			11.4	75.7	79	110	132	155	174	193	212	223	231	L\MIN
MAXIMUM FLOW CAPACITY														

The Emergency drench 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, piping and fittings factory assembled and tested, top 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.

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 indicated.

Specifications are subject to change without notice!

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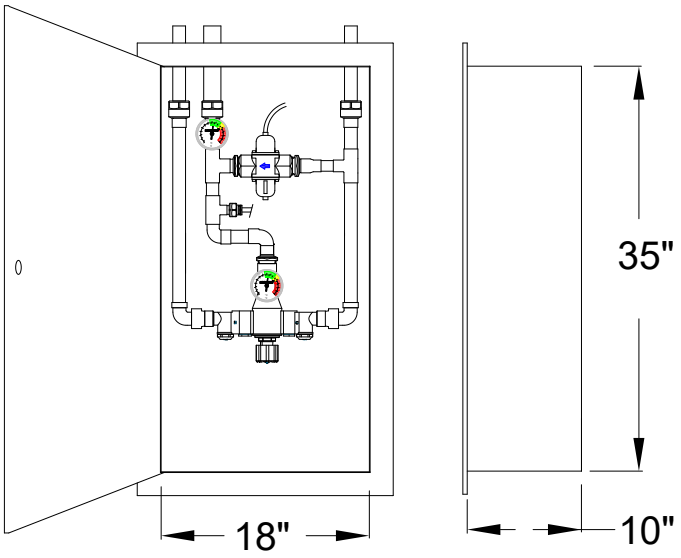
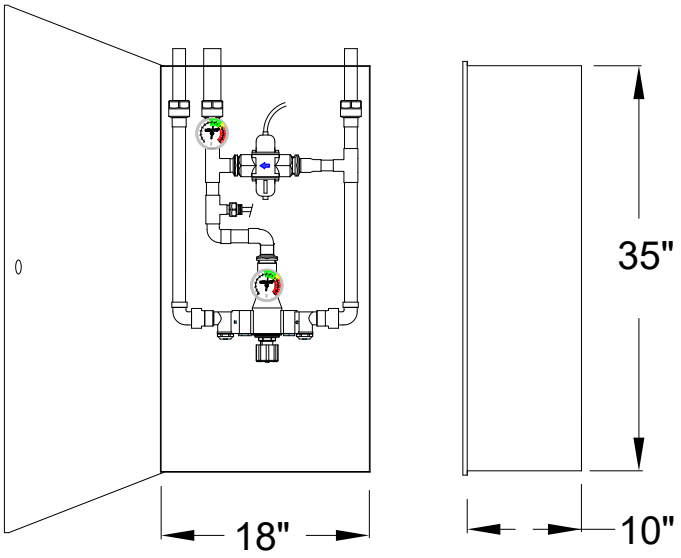
CABINET OPTIONS

____ **SUFFIX BWE REC-** Steel, baked white enamel recessed
____ **SUFFIX STSTL REC-**Stainless Steel recessed cabinet
____ **SUFFIX BWE EXP-**Steel, baked white enamel exposed
____ **SUFFIX STSTL EXP-** Stainless Steel exposed cabinet
____ **SUFFIX VIEW-** Viewport in door to view thermometer
____ **SUFFIX IT-** Inlet thermometers

EXL-850-LF-REC



EXL-850-LF-EXP



Note: Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.

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