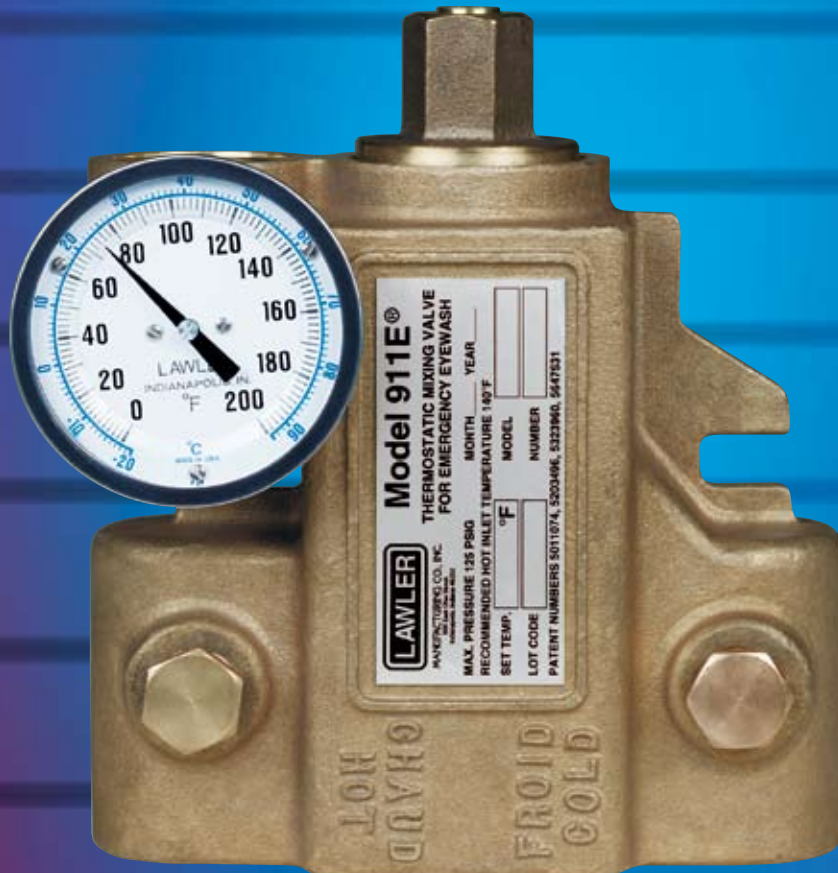


LAWLER



MODEL 911[®]E THERMOSTATIC MIXING VALVE FOR EMERGENCY SHOWER AND EYE WASH

Suitable for a single drench shower or multiple eyewash fixtures

The best solution for meeting ANSI Standard Z358.1-2004.

Tepid: Moderately warm; Lukewarm

(PAT NO. 5,011,074) (PAT NO. 5,379,936)

Lawler Model 911[®]E Thermostatic Water Controller

The Solution

The Lawler Model 911E Water Controller thermostatically mixes hot and cold water for emergency shower and eye wash units.

Patented Design

The Model 911E's thermostatic element responds to changes in incoming hot and cold water temperatures to provide comfortable, tempered water. Cartridge design allows ease of maintenance and replacement while the valve is still on the supply line.

Positive Hot Water Shut-off

Should the cold water supply to the valve fail, the Model 911E will shut-off all incoming hot water.

Integral Cold Water Bypass

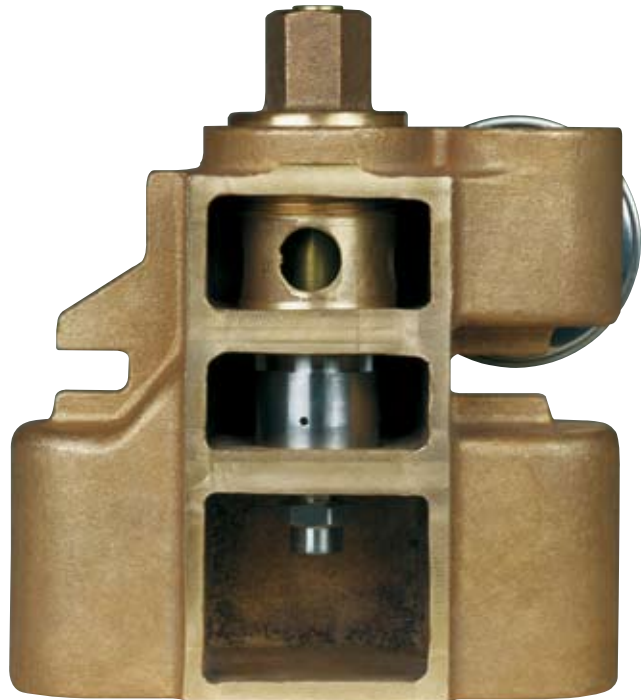
In the event the thermostatic element fails, or the hot water supply is interrupted, the 911 will still deliver enough cold water to the emergency shower and eye/face wash equipment to satisfy ANSI's minimum flow rate safety standard of 20 gpm for a single drench shower.

Low-Flow Capability

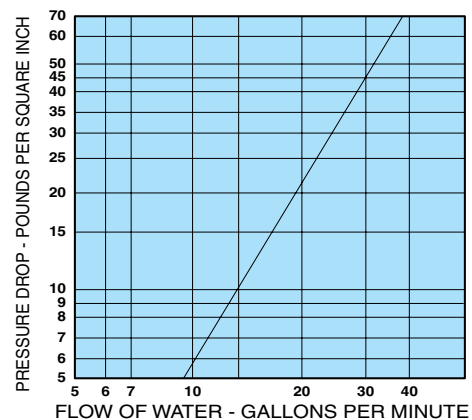
The Model 911E can temper water to a wide range of flows to meet your needs. Low-flow capability allows the valve to deliver safe, tempered water to a number of emergency fixtures supplied by the same supply line.

Flexibility

The Model 911E is available in a variety of finishes, piping configurations and cabinet designs to meet your requirements. Bronze, brass, copper, and stainless steel construction assures years of dependable service.



**CAPACITY OF TYPE 911E
THERMOSTATIC MIXING VALVE FOR
EMERGENCY SHOWER AND EYEWASH**



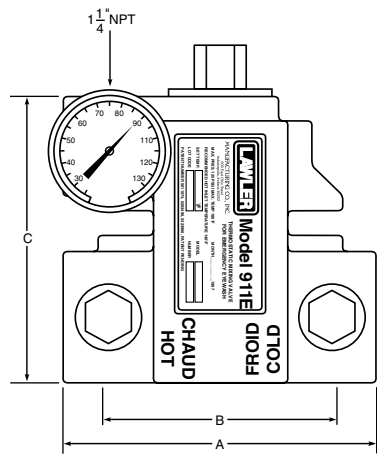
CAPACITIES – MODEL 911E

Pressure Drop PSI	5	10	20	30	45
Tempered Flow GPM	9	13	17	25	27
Tempered Flow LPM	34	49	64	94	102

BYPASS CAPACITIES - MODEL 911E

Pressure Drop PSI	5	10	20	30	45
Cold Bypass GPM	7	10	14	21	22
Cold Bypass LPM	26	37	53	79	83

Note: Gallon per minute ratings may vary dependent upon incoming water temperatures and pressures. Hot and cold water inlet pressures must be equal.



Inlets & Outlet are 1 1/4" NPT

Dimensions:

Valve Number	A	B	C
911E	7"	5"	6 1/2"

TYPICAL SPECIFICATION

The Emergency Shower and Eye Wash Mixing Valve shall employ an independent control mechanism which blends the inlet water flows to the design temperature. The valve shall control outlet temperature over a wide range of flow and shall be suitable for a single shower or multiple eyewash fixtures. The valve shall include a thermometer to measure the temperature of the outlet flow. Temperature adjustment shall be vandal-resistant.

The control mechanism shall employ a liquid-filled thermostatic motor to drive the valve without additional power requirements. The control mechanism shall employ a stainless steel sliding piston control device with reverse seat closure and both fixed and variable cold water bypass.

In the event of interruption of the cold water supply, the control mechanism shall close off the hot water port, stopping all flow.

In the event of interruption of the hot water supply, the control mechanism shall allow cold flow through both the fixed and variable by-pass.

In the event that the liquid motor fails, the control mechanism shall close off the hot water port with the reverse seat and fully open the internal variable bypass to allow cold water flow.

- Maximum Inlet Pressure:** 125 PSI
- Recommended Operating Pressure:** 65 PSI
- Recommended Inlet Temperature:** 120°F*
- Tepid Capacity:** 25 GPM at 30 PSI
- Bypass Capacity:** 21 GPM at 30 PSI

Lawler Model 911E Thermostatic Mixing Valve

Benefits:

- Comfortable, tempered water for emergency fixtures promotes proper usage.
- Low-flow capability.
- Installs into existing plumbing lines.
- Easy to replace thermostatic cartridge.
- Hands-off testing.

Features:

- Powerful liquid thermal thermostat.
- Compensates for supply line temperature and pressure changes.
- Outlet flow is full cold upon thermostat failure.
- Inlets can be attached from the bottom.
- Tamper-resistant control adjustment.
- Rugged design equipped with stainless steel piston and liner.
- Valve can recirculate both hot and cold water supply.
- Easy-maintenance valve can be completely repaired without being removed from the system.

Performance

The Model 911E controller will maintain outlet temperature to within 5°F under any of the following conditions, providing the recommended minimum flow and minimum supply temperature differentials are met:

- Reduction to 2 gpm
- Positive hot water shut off upon cold water failure
- Hot and cold water pressure must be equal in no draw periods
- 20% intermittent drop in inlet supply pressure

Caution: When maintaining and adjusting the mixing valve. The delivered flushing fluid temperature shall be 60°F (15°C) to 95°F (35°C). In circumstances where chemical reaction is accelerated by flushing fluid temperature, a medical advisor should be consulted for the optimum temperature for each application.

*When supplying 140°F or greater, additional outlet controls should be used.

Typical Installation

After installing the mixing valve, be sure to flush the system thoroughly.

Typical Installation #1 (Figure 1)

When installed at or near the water heater and without a recirculation system.

Install the valve as shown in *Figure 1* with the mixing valve positioned below the hot water tank or heater. If this is not possible, pipe in a heat trap as shown.

Typical Installation #2 (Figure 2)

When installed away from the water heater with recirculating pump on the hot water supply line.

Note: When installed 20 feet or more from the water heater, it is important to recirculate the hot water supply to the mixing valve.

Install the mixing valve as shown in *Figure 2*. The dead leg should be limited to 10 feet.

Figure 1

Typical Installation #1

When used in a single temperature system.

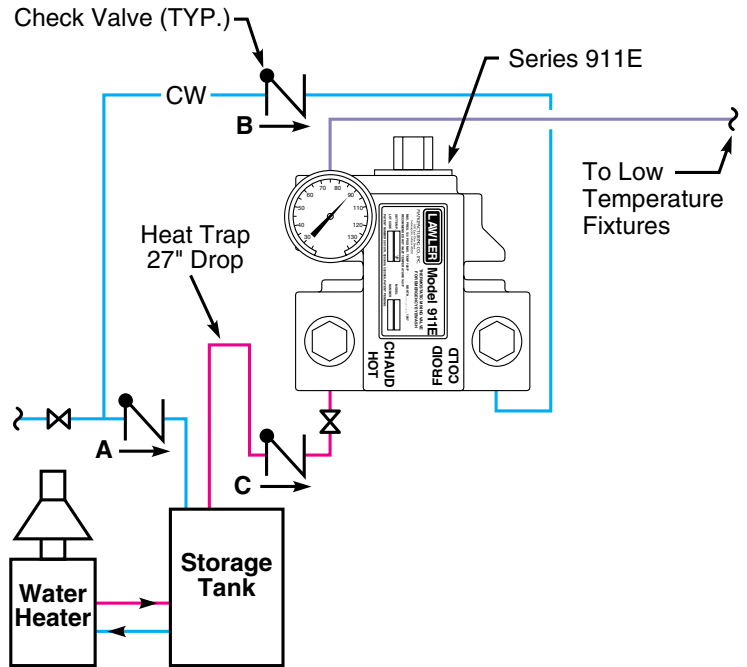
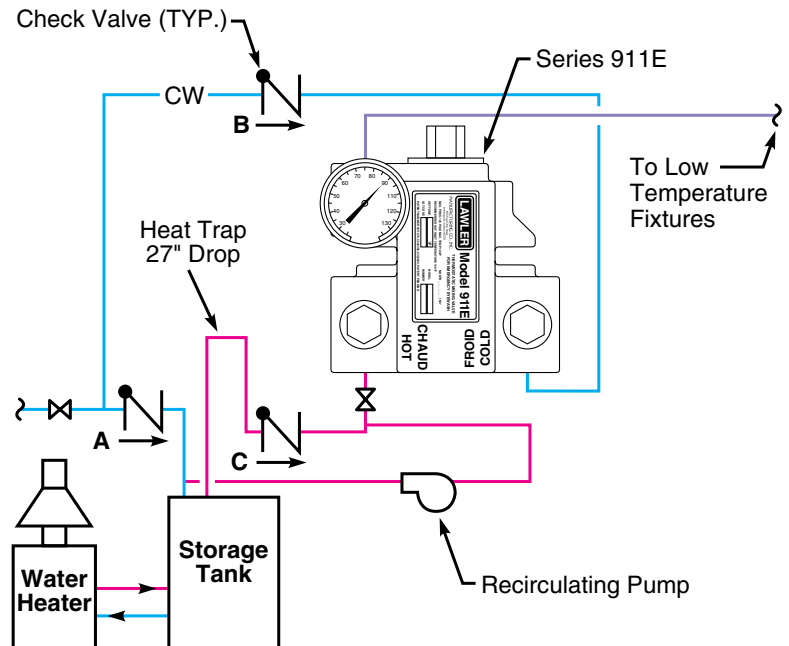


Figure 2

Typical Installation #2

When used in a single temperature recirculating system.



Caution: The cold water line must be installed so that it is not effected by excessively hot ambient temperatures. Provisions shall be made to thermally isolate the valve. Cold water pipe installed in the ceilings of boiler rooms or rooms that increase ambient temperature require a recirculating pump.

Caution: When maintaining and adjusting the mixing valve, all fixtures should be isolated from use. Lawler Manufacturing Co., Inc. recommends that you work safely at all times and in a manner consistent with the OSHA Lock/Tagout standard, 29 CFR 1910.147 and other applicable standards.

Note: The mixing valve must be installed with inlet check valves and the Eyewash/Facewash or shower fixture should be installed 4 to 10 feet from the mixing valve.



LAWLER
MANUFACTURING CO., INC.

5330 East 25th Street
Indianapolis, Indiana 46218
Phone (317) 261-1212
Fax (317) 261-1208

www.lawlervalve.com