



# Model 911<sup>®</sup> Thermostatic Mixing Valve Emergency Shower Eng. No. 84701

## CAPACITIES – MODEL 911

Pressure Drop PSI	5	10	20	30	45
Tempered Flow GPM	25	35	50	60	72
Tempered Flow LPM	74	132	189	227	273

## BYPASS CAPACITIES – MODEL 911

Pressure Drop PSI	5	10	20	30	45
Cold Bypass GPM	14	20	28	40	45
Cold Bypass LPM	53	75	106	151	170

The Emergency Shower Mixing Valve shall employ two fully independent control mechanisms which split the flow in half, blend each half to the design temperature and then integrate each stream at the outlet. The valve shall control outlet temperature over a wide range of flow and shall be suitable for drench shower or combination shower & eye/eye face wash applications in order to comply with ANSI standard Z358.1. The valve shall include three thermometers to measure the temperature of each stream and the merged flow. Temperature adjustment shall be vandal-resistant.

Each independent control mechanism shall employ a liquid-filled thermostatic motor to drive the valve without additional power requirements. Each 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, each control mechanism closes off the hot water port, stopping all flow. Positive hot water shut-off. In the event of interruption of the hot water supply, each control mechanism shall allow cold flow through both the fixed and variable bypass.

In the event that one liquid motor fails, the control mechanism closes off the hot water port with the reverse seat and fully opens the internal variable bypass to allow cold water flow. The other control mechanism will be unaffected by the failure and will maintain design temperature.

**Maximum Inlet Pressure:** 125 PSI

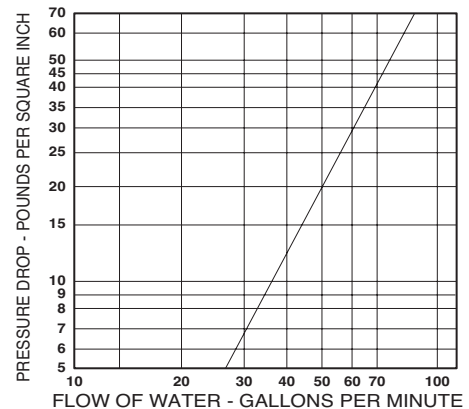
**Recommended Supply Pressure:** 65 PSI

**Recommended Inlet Temperature:** 120°F

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

**Set Point:** 85°F

## CAPACITY OF TYPE 911 THERMOSTATIC MIXING VALVE FOR EMERGENCY SHOWERS



**FINISH:** Brass   
Rough Chrome

Lock Set  Mounting Bracket

Lock set includes lockable cover plate and keyed padlock to prevent unauthorized temperature adjustment. Unit includes 0-200°F dial thermometers, inlet check valves, and lockable ball valves on inlets.

### CABINET SPECIFICATIONS:

	<b>STAINLESS</b>	<b>CARBON STEEL</b>
Body:	18 Ga.	16 Ga.
Door:	18 Ga.	16 Ga.
Material:	Type 304 with No. 4 Finish	Baked enamel painted

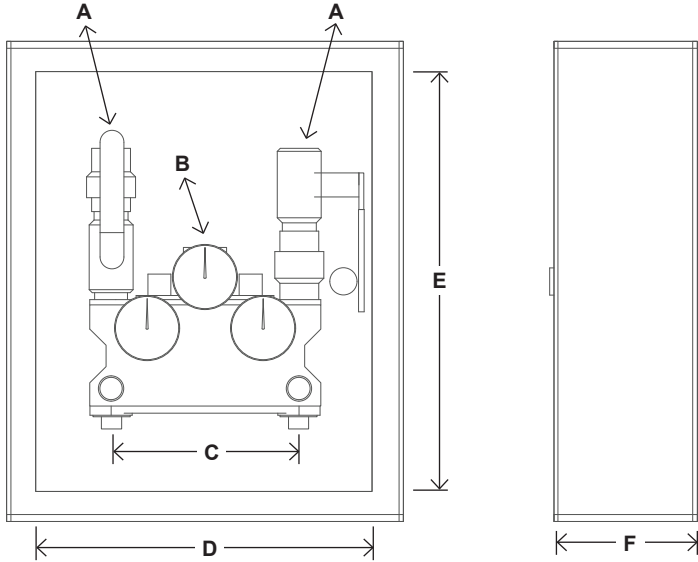
### TYPE OF CABINET

Recessed   
Semi-Recessed   
Surface

### MATERIAL

Stainless   
Carbon Steel   
Carbon Steel Box, Stainless Door

Cabinet includes lock with two keys. Hinged left side, piano type. For specifications on security cabinets, contact factory.



**DIMENSIONS**

Valve Number	A	N.P.T.	B	N.P.T.	C	D	E	F
911	1-1/4"		1-1/4"		9"	19"	23"	6-3/4"

Dimensions are for reference purposes only. For rough-in dimensions please refer to Lawler's Revit/BIM models found at [temperedwater.com](http://temperedwater.com). Flange is 2". Recessed cabinet shown.

**Model 911®  
Eng. No. 84701**

**Typical Installation 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 Figure 2**

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

Install the mixing valve as shown in Figure 2. The non-circulated loop should be limited to 10 feet and must be flushed periodically.

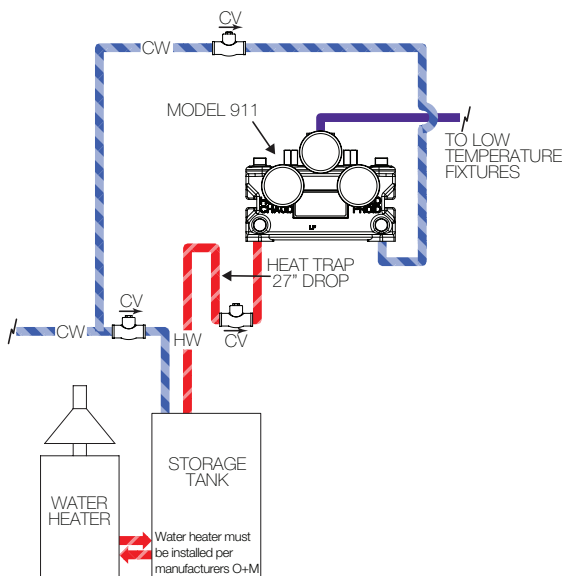
**Notes:** If the valve is installed 20 feet or more from the water heater, it is important to recirculate the hot water supply to the mixing valve.

The mixing valve must be installed with inlet check valves and the shower or the Eyewash/Facewash fixture should be installed 4 to 10 feet from the mixing valve. Hot and cold water inlet pressures must be equal.

Provisions shall be made to thermally isolate the valve.

**Figure 1**

**Valve must be installed with check valves**



**Figure 2**

**Valve must be installed with check valves**

