



## Model 803 Thermostatic Water Controller High-Low Water Mixer Eng. No. 86204

### CAPACITIES – MODEL 803

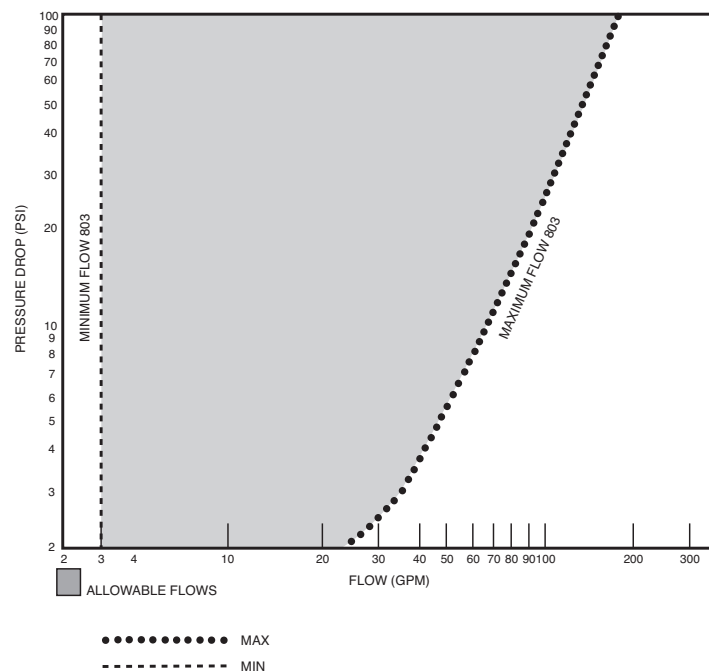
Pressure Drop PSI	5	10	20	30	45	60	80
Valve Number	Capacity						
803-GPM	43	60	85	103	125	144	165
803-LPM	163	227	322	390	473	545	624

1/2 gpm when properly installed in recirculated system.

Master water mixing valve shall be of the thermostatic type with liquid-filled thermal motor. It shall have lead free brass body construction with replaceable corrosion-resistant components. Valve construction shall employ a sliding piston control mechanism. Sliding piston and liner shall be of stainless steel material. Valve shall come equipped with union end stop and check inlets with removable stainless steel strainers. Valve shall control temperature from a low flow of 3 GPM\* up to a maximum flow rate for a given pressure differential. Valve shall provide protection against hot or cold supply line failure and thermostat failure.

Unit includes a dial thermometer and shut-off valve on tempered water outlet. Unit is assembled and tested with necessary fittings and nipples.

Also included is a valved cold water bypass line from the cold water supply line. All piping passes through the top of cabinet. Cabinet is shipped separately.



**FINISH:** Brass ☐  
Rough Chrome ☐  
Other ☐

**TEMP. RANGE**      **SET POINT**

70° to 100°F      80°F ☐  
90° to 120°F      110°F ☐  
110° to 140°F      120°F ☐  
Special \_\_\_\_\_ ☐

**Optional Test Connection** ☐  
Including garden hose connection,  
shut-off and thermometer.

Brass ☐  
Rough Chrome ☐

Valve must be field set prior to being put into service. Refer to O&M section titled "Setting the Mixing Valve to the System".

### CABINET SPECIFICATIONS:

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

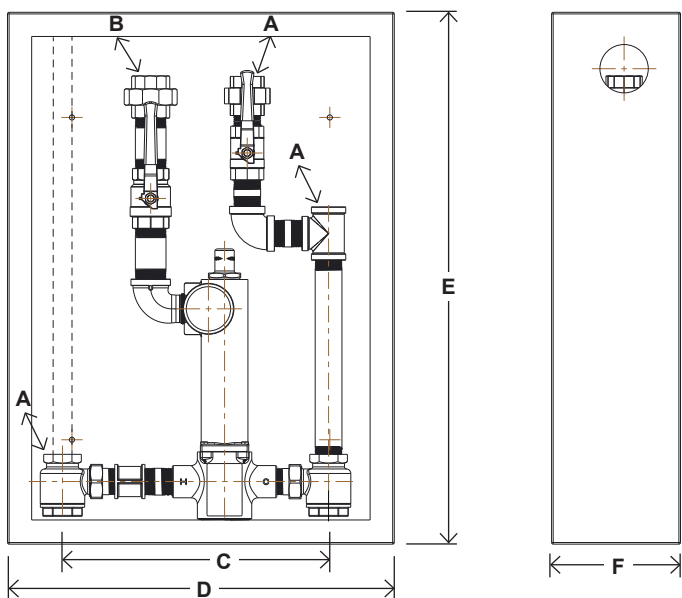
### TYPE OF CABINET

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
803	1-1/4"		1-1/2"		12-3/4"	12-1/2"	33"	8"

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).

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### Typical Installation

Install the mixing valve below the hot water tank or heater. If this is not possible, pipe in a heat trap as shown in Figure 1 with an approximate 2' drop.

Connect a tempered water return line as shown in Figure 1. This allows flow through both ports of the mixing valve during periods of no draw.

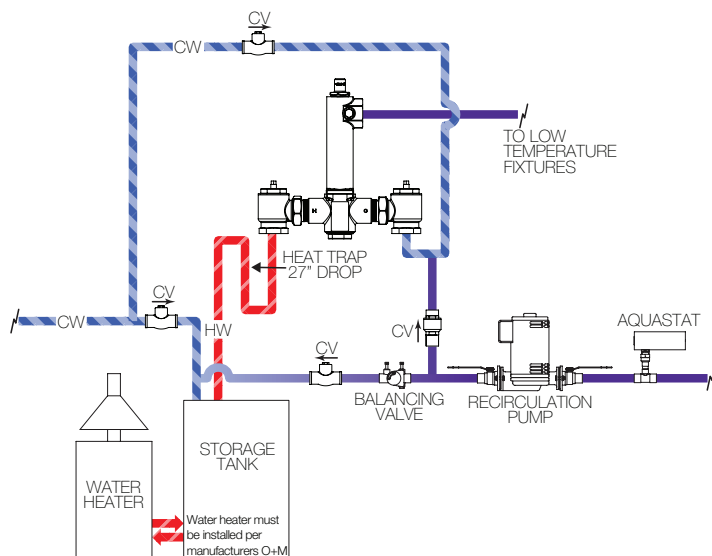
If a dual temperature system is used, a separate recirculating loop and pump are required to return high temperature hot water to the water heater. See Figure 2.

Install an aquastat at the tempered water return pump.

Install the water heater per manufacturer's instructions.

**Figure 1**

**When used in a single temperature recirculating system**



**Figure 2**

**When used in a dual temperature recirculating system**

