Thermostatic Mixing Valve
Model SV160
Emergency Showers
Unit No. 84708

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 deluge shower or eyewash applications in order to comply with ANSI standard Z358.1-2014. 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.*

VALVE FINISH
Rough Bronze  ☐  Chrome Plate  ☐

TEMP. RANGE  SET POINT
70°F to 90°F  85°F  ☐

Lock set  ☐  Mounting Bracket  ☐

Lock set includes lockable cover plate and keyed pad-lock to prevent unauthorized temperature adjustment.

DIMENSIONS:

<table>
<thead>
<tr>
<th>Valve Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV160</td>
<td>11&quot;</td>
<td>9&quot;</td>
<td>16&quot;</td>
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CAPACITIES – MODEL SV160

<table>
<thead>
<tr>
<th>Pressure Drop PSI</th>
<th>5</th>
<th>10</th>
<th>20</th>
<th>30</th>
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<tbody>
<tr>
<td>Tempered Flow GPM</td>
<td>25</td>
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<td>72</td>
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<tr>
<td>Tempered Flow LPM</td>
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BYPASS CAPACITIES - MODEL SV160

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<tr>
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Unit includes 0-200°F dial thermometers and inlet check valves.

**Note:** Hot and cold water inlet pressures must be equal. Provisions shall be made to thermally isolate the valve.

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

Design and specification subject to change without notice.
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Unit is completely assembled and tested. Cabinet, with clear view port for the thermometers, is shipped separately. See below for cabinet specifications.

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.

General Purpose – Cabinet Specifications:

**STAINLESS**
- Body: 18 Ga.
- Door: 18 Ga.
- Finish: Type 304 with No. 4 Finish

**CARBON STEEL**
- Body: 16 Ga.
- Door: 16 Ga.
- Finish: Baked white enamel

**VALVE FINISH**
- Rough Bronze
- Chrome Plate

**TYPE OF CABINET**
- Recessed
- Semi-Recessed
- Surface

Cabinet includes lock with two keys. Hinged left side, piano type.

**TEMP. RANGE**
- 70° to 90°F

**SET POINT**
- 85°F

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