How Mixing Valves Work

Cold Water Is Mixed With Hot Water To Provide Safety And Comfort At The Faucet.

A Honeywell mixing valve allows you to set your water heater to a higher temperature to reduce the threat of bacteria growth, yet the mixing action helps prevent scalding. Plus, you’ll increase your available hot water supply by mixing hot water with cold.

Meet The Code For Safety

New plumbing code changes adopted or soon to be adopted in most communities across the country require the control of hot water through the use of thermostatic mixing valves. All public sinks and non-shower bathtubs must use a thermostatic mixing valve that conforms to the new ASSE 1070 standard with a maximum temperature of 120°F at the tap.

A Honeywell mixing valve installed at your water heater ensures that you meet the code.

Sources

Here To Help
If you have any questions about Honeywell mixing valves, call 1-800-468-1502 or visit yourhome.honeywell.com.

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From more available hot water to improved safety for your family, Honeywell mixing valves are a perfect fit for your home.

Three Ways
Honeywell Mixing Valves Increase Comfort And Safety

1. More Available Hot Water
Honeywell valves can extend the capacity of your existing hot water tank. The mixing action gives you up to 60-gallon capacity from a 40-gallon tank by storing water at a higher temperature and then mixing it down to a safe 120° F or lower — giving you more hot water for your home. And when it’s time to buy your next hot water tank, you can save money by purchasing a smaller tank without worrying about a cold shower.

2. Help Prevent Bacteria Growth
Deadly Legionella bacteria can grow when a water heater’s temperature is set to low, but studies show water heated to 140° F can kill up to 90% of the bacteria. A Honeywell mixing valve allows you to set your water heater at a higher temperature to help kill bacteria while eliminating concerns about water being too hot at the tap.

3. Help Prevent Scalding*
While your water heater is turned up to prevent bacteria growth, you’ll still enjoy protection at the tap because mixing valves can help prevent burns due to scalding. Research has shown that burns from hot water can occur in just seconds — even less for small children. A mixing valve reduces the temperature at the faucet, so your family can use the sink, shower or tub with less fear of scalding.

Approximate time and temperatures causing a third-degree burn\(^2\), \(^3\), \(^4\)

<table>
<thead>
<tr>
<th>TEMPERATURE</th>
<th>ADULTS</th>
<th>CHILDREN 0-5 YEARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>160° F</td>
<td>1 second</td>
<td>0.5 seconds</td>
</tr>
<tr>
<td>155° F</td>
<td>1.5 seconds</td>
<td>1 second</td>
</tr>
<tr>
<td>150° F</td>
<td>2 seconds</td>
<td>1.5 seconds</td>
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<tr>
<td>145° F</td>
<td>3 seconds</td>
<td>2 seconds</td>
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<tr>
<td>140° F</td>
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<td>4 seconds</td>
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<td>10 seconds</td>
</tr>
<tr>
<td>125° F</td>
<td>3 minutes</td>
<td>2 minutes</td>
</tr>
<tr>
<td>120° F</td>
<td>5 minutes</td>
<td>5 minutes</td>
</tr>
<tr>
<td>100° F</td>
<td>15 minutes</td>
<td>10 minutes</td>
</tr>
</tbody>
</table>

Burns can occur quickly, but Honeywell mixing valves help prevent scalding. In fact, Honeywell mixing valves meet the most stringent safety standards in the industry.

* When used as directed