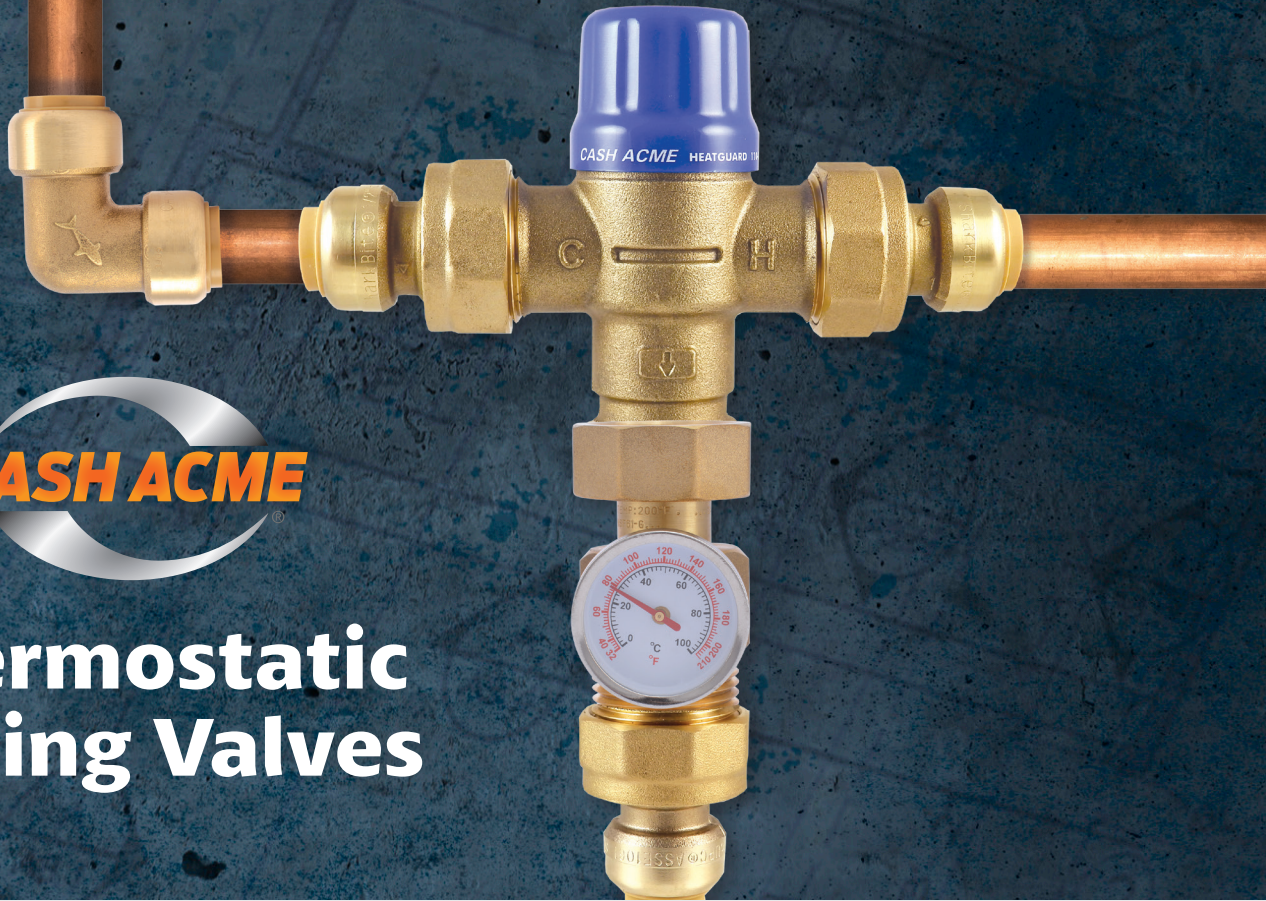




# Thermostatic Mixing Valves



## WHAT IS A THERMOSTATIC MIXING VALVE?

A thermostatic mixing valve (TMV) mixes hot water with cold water to ensure a constant safe water temperature at shower, bath and faucet outlets, helping to reduce the risk of scalding and threat of Legionella bacteria growth, while also adding comfort by increasing the amount of available hot water.

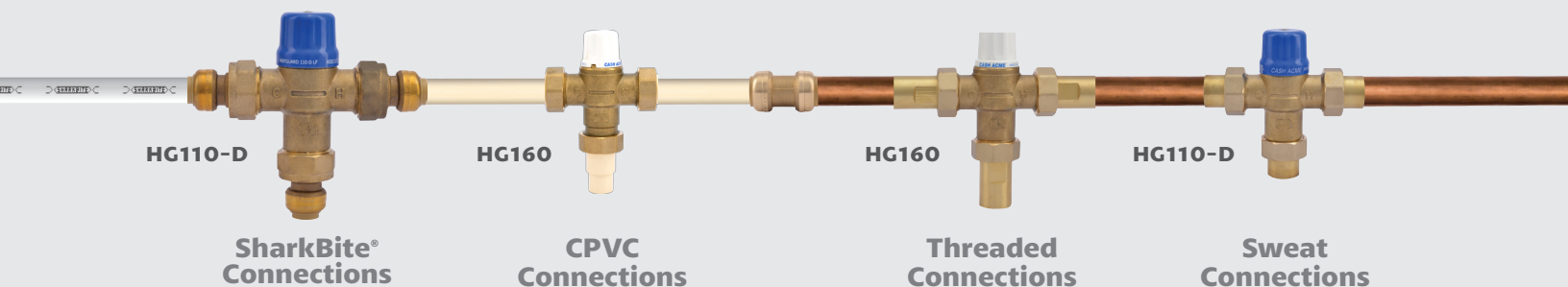
## APPLICATIONS

Cash Acme is a trusted manufacturer of thermostatic mixing valves for residential, commercial, industrial and even hydronic heating applications. Our mixing valves accurately control the temperature of hot water at the source of heat (water heater) or at the point-of-use (faucet, bath or shower) to ensure that it is delivered at a safe temperature.

The Cash Acme family of valves offers an extensive range of connections suitable for any application, including SharkBite, PEX, CPVC, sweat, and threaded (NPT).

## CODES AND CERTIFICATIONS

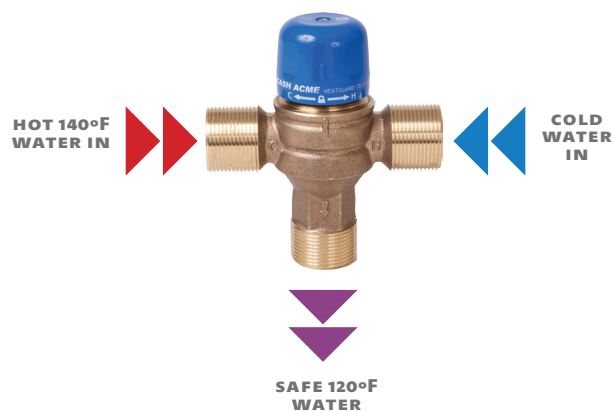
Cash Acme Thermostatic Mixing Valves are certified to various plumbing standards such as ASSE 1017, ASSE 1069, ASSE 1070, CSA B125, NSF/ANSI 372, NSF/ANSI 61 and listed with ASSE, CSA & IAPMO for use in accordance with U.S. and Canadian plumbing codes.



## COMFORT

*Get more hot water!*

Hot water mixing valves increase the amount of usable hot water in both homes and commercial uses. They enable an entire family to have longer lasting showers without having to worry about running out of hot water. When using a mixing valve on a water heater, hot water can be stored at a higher temperature, but safely delivered at 120°F (49°C) to all outlets. The valve mixes hot water with cold water until it can be released at a safe 120°F (49°C). Mixing the hot water with cold water means that less hot water is drawn from the water heater, therefore boosting the water heater's capacity and the amount of useable hot water for the home.



## PROTECTION

*Helps prevent scalding.*

Thermostatic mixing valves can improve the safety of hot water systems by helping prevent burns and injury from accidental scalding. It only takes seconds for hot water to burn, or scald, and it can happen even quicker with young children. Mixing valves help prevent this by controlling the water temperature at either the water heater or at the outlet (faucet, bath or shower). They ensure that water is delivered at a safe temperature and provide added protection from scalding.

### TIME/TEMPERATURE RELATIONSHIPS IN SCALDS

Temperature	Time for a mild First Degree Burn	Time For Permanent Second Degree Burn
120°F (49°C)	3 minutes	9 minutes
122°F (50°C)	1 minute	5 minutes
125°F (52°C)	30 Seconds	90 seconds
131°F (55°C)	5 seconds	25 seconds
140°F (60°C)	2 seconds	5 seconds
149°F (65°C)	1 second	2 seconds
154°F (68°C)	Instantaneous	1 second

*One small accessory that improves comfort, helps protect against accidental scalding and reduces the risk of Legionella bacteria growth.*

## SAFETY

*Reduces the risk of Legionella Bacteria growth.*

Legionella is a form of bacteria found naturally in water. It thrives in warm water environments, and storing water at 120°F (49°C) or less creates the ideal conditions for this bacteria to grow. When exposed to Legionella, it can lead to illnesses like Legionnaires' disease and Pontiac fever. The growth of this bacteria can be minimized, or eliminated, by increasing the water heater's temperature to 140°F (60°C) or higher. However increasing temperature also increases the risk of scalding. By installing a mixing valve on the water heater, the temperature can be safely increased to prevent the growth of Legionella bacteria without the risk of scalding, providing the ultimate in peace of mind.

### Legionella Bacteria STORE ABOVE 140°F

Disinfection: >160°F

Legionella die in <2 minutes

Legionella die in 32 minutes

Legionella die in 5-6 hours

Ideal growth range:

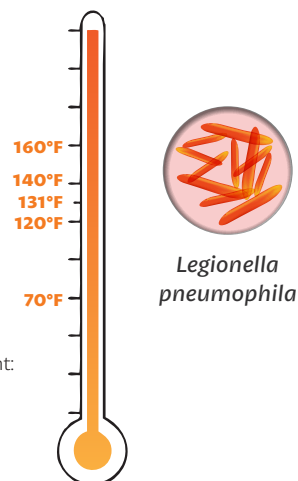
90°F – 108°F

Legionella growth range:

70°F – 120°F

Legionella survive but dormant:  
<70°F

*\*Results may vary based  
on usage conditions.*



All Cash Acme Thermostatic Mixing Valves are proudly Lead Free