



INDUSTRIES LIMITED

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Tempered DHW Recirculation

Thermostatic mixing valves are used to temper the supply of domestic hot water to plumbing fixtures. In many installations, a recirculation pump is installed to keep the temperature up in the entire system during periods of low or no demand.

If all of the piping is well insulated, it will take some time during periods of no demand for the water temperature to drop in these systems. Because the temperature is not dropping, the mixing valve will not be required to admit any hot water and the valve will not be 'working'. These valves perform better and last longer when they are 'working' all of the time.

It's a good idea, therefore, to leave the insulation off a stretch of the recirc piping somewhere where it won't cause a problem. The minor loss of heat from this pipe will require the valve to modulate during periods of no demand to meet its setpoint. This simple step will improve the operation of the system and extend the life of the valve.

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