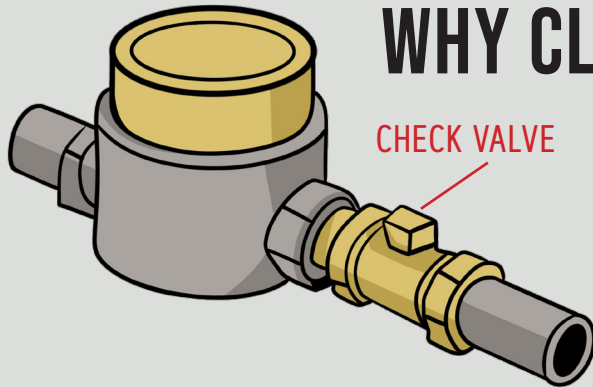




RISKS OF THERMAL EXPANSION

PART OF ONGOING WATER SYSTEM IMPROVEMENTS



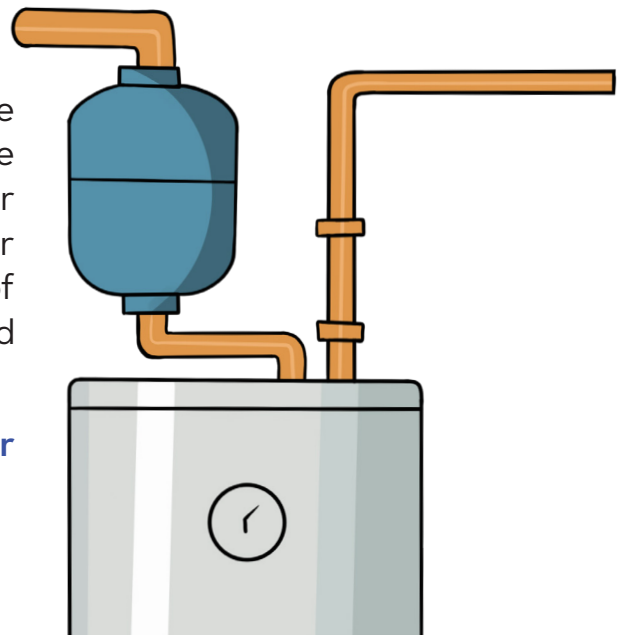
WHY CLARKSBURG WATER BOARD IS INSTALLING CHECK VALVES

The federal Clean Water Act requires the use of check valves to prevent water from flowing back into the public water system.

THERMAL EXPANSION

When the water heater raises the temperature of the water, the water expands and pressure increases in the plumbing system. Since the check valve blocks the water from flowing back into the main, this expanded water will have nowhere to go. Depending on the condition of the plumbing, the increase in water pressure may lead to negative effects, such as:

- Intermittent discharge of water through the water heaters safety relief valve
- Leakage from other plumbing fixtures or piping
- Noisy operation of the plumbing system
- Damage to water heater or other appliances



These negative effects can be mitigated by reducing the water heater's temperature and/or installing a thermal expansion tank to accommodate the increased pressure. **Any plumbing modification required due to the installation of the check valve is the responsibility of the property owner.**