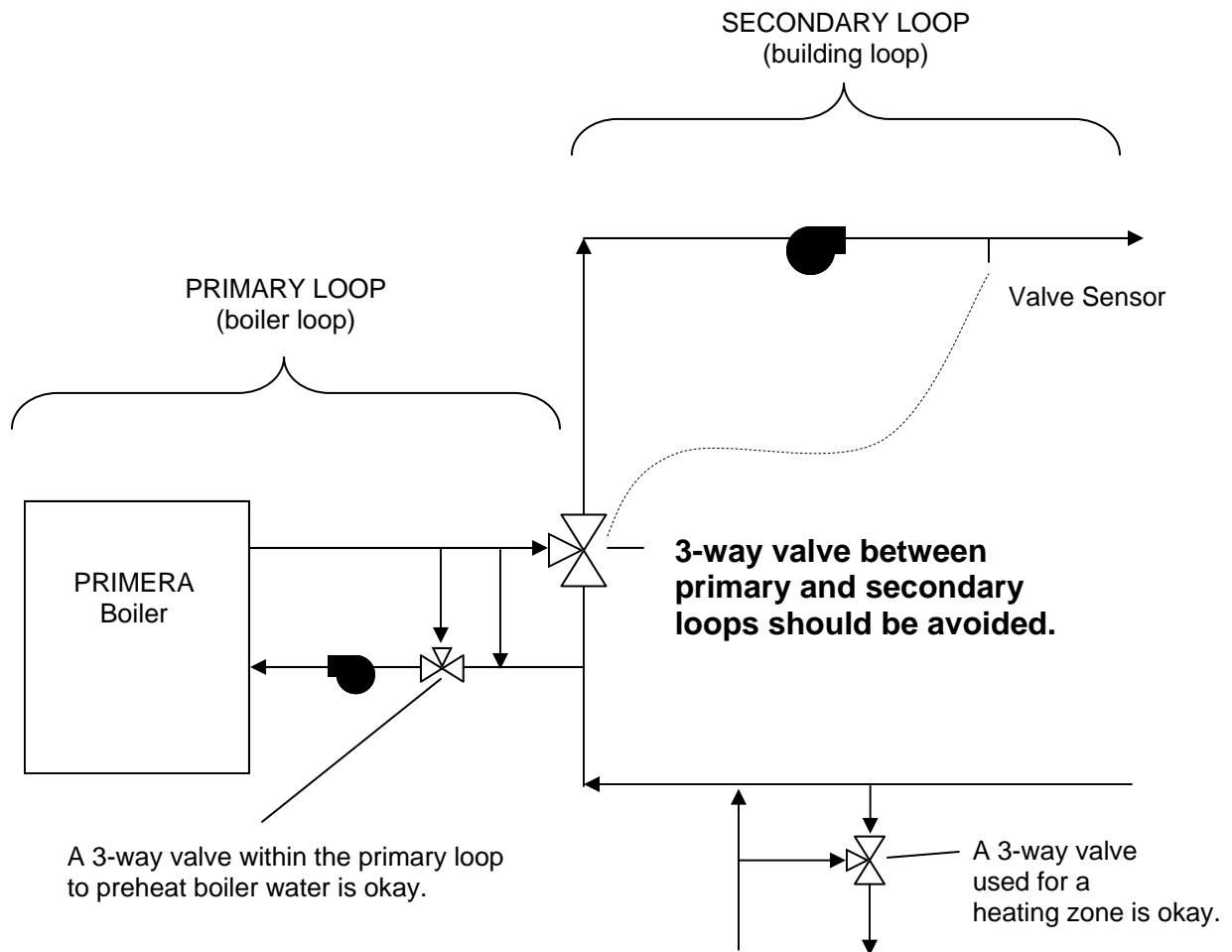


# PIPING TO AVOID WHEN INSTALLING PRIMERA BOILERS



## 3-Way Valves Located BETWEEN the Primary and Secondary Loops SHOULD NOT BE USED.

These valves attempt to maintain building loop temperature by metering heated water from the primary loop into the secondary loop on a call for heat. Frequently, the temperature of the primary loop is higher than the target temperature of the secondary loop. These valves work well with boilers that contain moderate to large amounts of water.

However, with low-water-content instantaneous boilers like PRIMERA, 3-way valves between the primary and secondary loops can cause fluctuations in the critical boiler water flow rates, elevated boiler water temperatures and short-cycling of the boiler(s).

### What works well with instantaneous boilers?

With instantaneous boilers, successful building loop temperature control can be achieved through the combination of the boiler loop pump acting as a heat injector and modulation of the burner acting as a temperature regulator. The 3-way valve between the loops is an unnecessary and oftentimes troublesome control device that should be avoided.