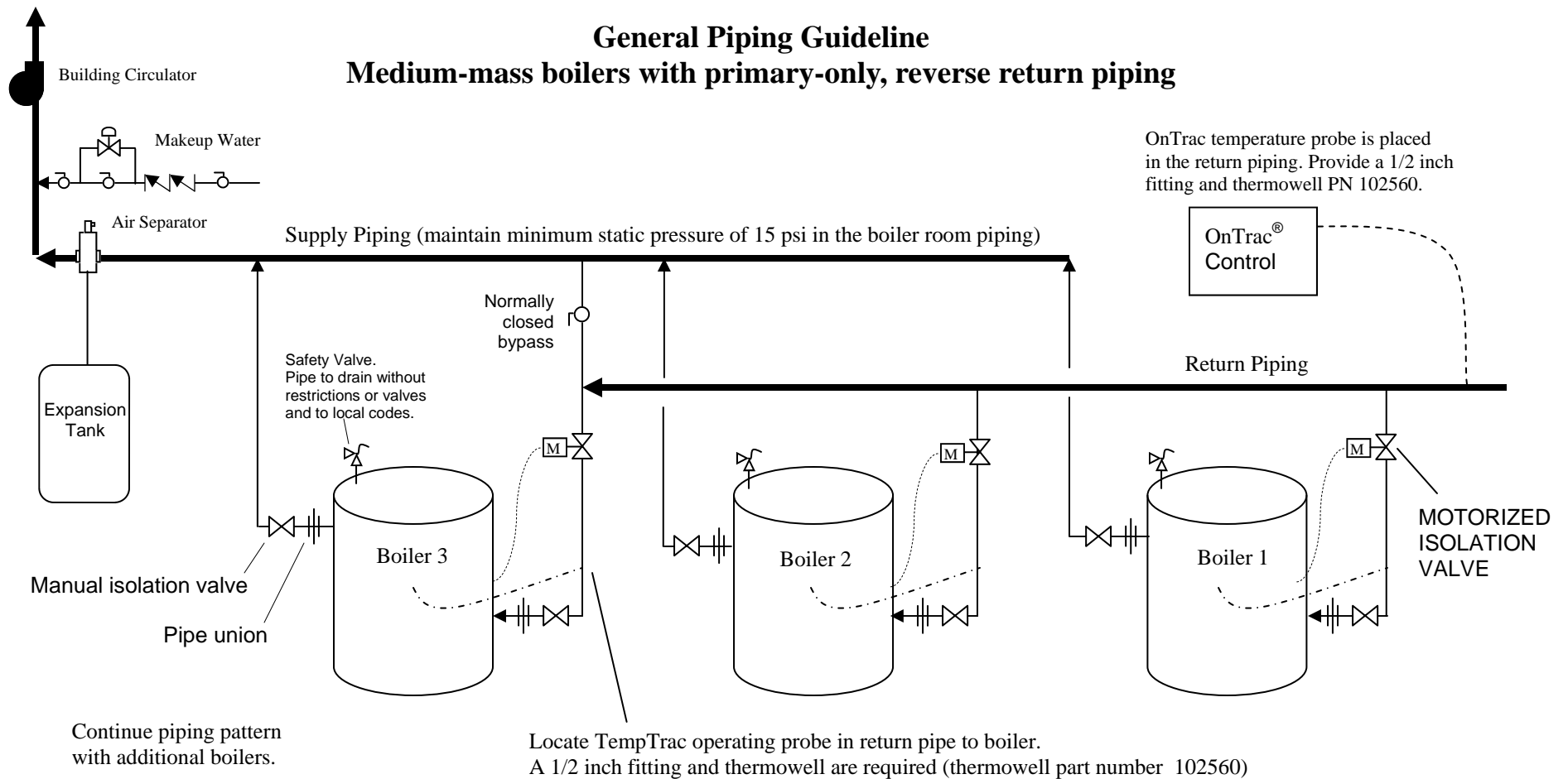


## General Piping Guideline

### Medium-mass boilers with primary-only, reverse return piping



Motorized isolation valves should not be used on a constant flow building loop. These valves are optional when the building loop uses variable flow. Consult Riverside Hydronics.

Controlling motorized isolation valves:

If the OnTrac® boiler management system is used, motorized isolation valves must be controlled by OnTrac and its built-in valve control logic.

If another type of multiple boiler controller or a BAS is used, the valves should be controlled directly through that control by time delay relays.

In either case, measures must be taken to allow some flow through the boiler(s) when not firing in order to prevent “dead-heading” the building circulator.