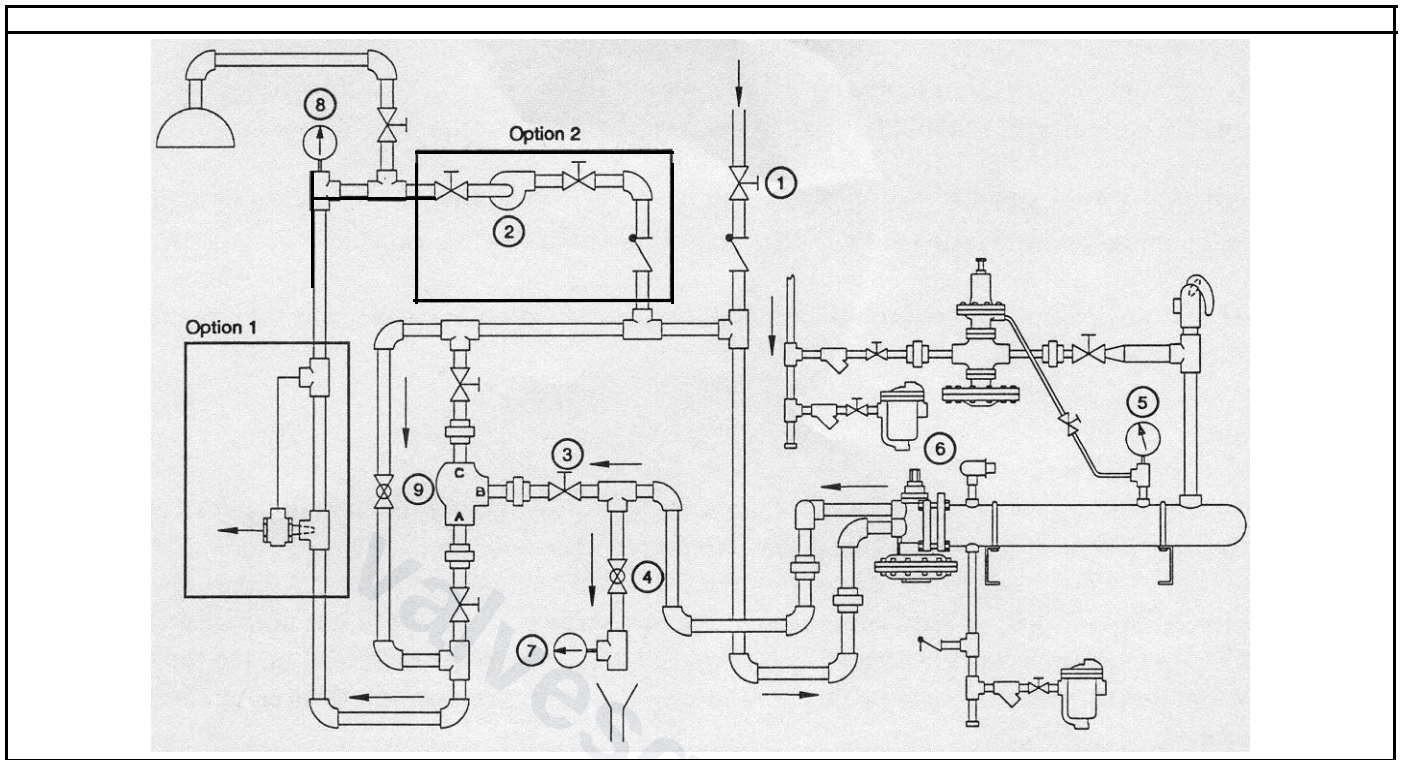




Flo-Rite-Temp Drench / Safety Shower System Start-up Procedures



Option 1: Temperature relief due to the potential accumulation of ambient heat picked up from the piping.

Option 2: Water recirculation when heater is servicing a long run to the shower head, more than one shower head, or piping is exposed to cold ambient temperatures.

Once the entire system has been piped in similar fashion to the diagram shown in this bulletin, start-up should be conducted in the following order.

- Step 1 - Begin by opening water supply valve(1) to allow water to flow into the system.
- Step 2 - If the optional recirculating pump(2) is installed, make sure that its power is turned off and the pump is stopped.
- Step 3 - Close the FLO-RITE-TEMP's outlet hot water valve(3) prior to port B of the thermal capsule.
- Step 4 - Open (full) and close several times, throttling bypass valve(4) to purge all air from the FLO-RITE-TEMP. Continue to do this until a solid stream of water with no air mixed in, comes from the unit.
- Step 5 - Throttle back bypass valve(4) so that approximately 3 gpm of constant water flow may pass to the drain.
- Step 6 - Slowly open the steam supply valve to the shell of the FLO-RITE-TEMP so that the gauge(5) reads between 2 and 15 psig.

- Step 7 - Allow the unit to run at 3 gpm of water flow with steam pressure on the shell for approximately 3 to 5 minutes to assure that the unit is heated up properly and has stabilized.
- Step 8 - Adjust the FLO-RITE-TEMP control valve(6) according to the adjustment procedures on pages 3 and 4 of Bulletin AY-780 to an outlet temperature set point of between 120 degrees to 130 degrees Fahrenheit as indicated by the outlet thermometer(7).

NOTE: This thermometer(7) should only be used to set the FLO-RITE-TEMP initially. Once adjusted, all system temperature monitoring should be done at the head supply thermometer(S).

- Step 9 - When the FLO-RITE-TEMP has been adjusted, close throttling bypass valve(4) to drain and open up outlet hot water valve(3) prior to port B of the thermal capsule.
- Step 10 - If optional recirculation pump is installed, make sure isolation valves to it are open and restart the pump.

Items to note:

- 1) If a recirculation pump is used, its size should only be 2 to 3 gpm with enough head to overcome any head pressure in the loop. This pump should run continuously.
- 2) The throttling valve(9) in the bypass around the three way thermal capsule is normally closed. If the loop temperature is running several degrees higher than desired as read on the loop thermometer(S), this valve can be throttled to some open degree until the desired temperature is reached.
- 3) Throttling bypass valve(4) and bypass valve(9) around the thermal capsule should be either globe or ball type valves.