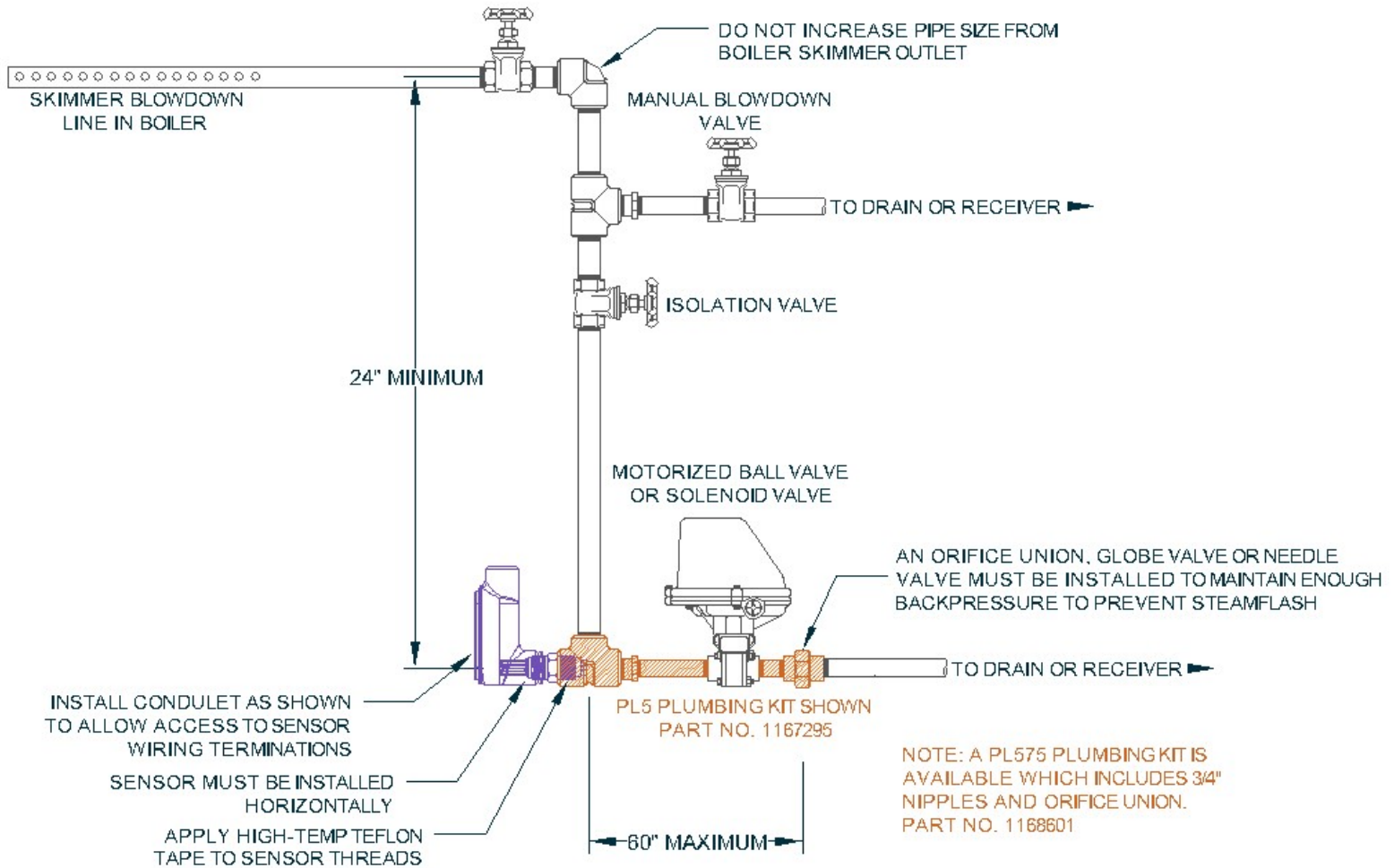


Boiler Conductivity Sensor Plumbing Installation: Sample/Cycle or Sample/Hold

If your blowdown requirement is less than 1000 pounds per hour, the sample/cycle or sample/hold methods are appropriate. It is critically important that the blowdown piping is plumbed appropriately for the type of control method that you will use. If the piping is not plumbed correctly the controller will not be able to control conductivity. Refer to the drawing and notes below for recommended plumbing installation.



RECOMMENDED INSTALLATION

- Use piping from the boiler skimmer line as the sample and blowdown line. Do not increase pipe size.
- The sensor must be located at least two feet below the water level in the boiler and installed horizontally.
- Be sure to apply high-temp Teflon tape to the sensor threads before installing in fitting. If using conduit between the sensor and controller, allow a place for water to escape if the sensor leaks to prevent water damage to the controller.
- Use a orifice plate, globe valve or needle valve downstream of the sensor to prevent steam flash. Whichever flow restriction device is used must be within 5ft of the sensor.
- Ensure that there are no restrictions between the skimmer line and flow restriction devices. Ensure that all valves upstream of the sensor are fully open.
- Be sure to provide isolation valves in the sample line to allow for maintenance of the sensor.