



TCU/VCU Pressure Relief Valves Blowing

The combination of the supply water pressure and boost of the pump ("To Process") cannot exceed 150psi (10.34 bar).

Customer must also need to consider pressure spikes from the closing of solenoid valves that cannot exceed this pressure as well. If the combined pressure is close to the PRV threshold and the valve causes a spike that pushes the pressure too high they will leak.

Another issue is expansion of the water as it heats. The supply line acts as an expansion tank allowing the water in the process loop to expand back up the supply line during heating. If you have a backflow preventer (check valve or pressure regulator) on the supply line, the pressure will increase and could exceed the limits of the PRV. Customer would need an expansion tank or pressure regulating valve between the backflow device and the TCU to relieve the pressure so it does not cause the trapped water to open the PRV.