

Fluid Equipment Co., Inc.

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There are (2) Two 8" Angle Pattern Pump Control Valves here in an unusual arrangement. Two Vertical Turbine Pumps have Below floor Discharge, coming through the far wall in the picture. When pumps come on, the control valves are open, and the flow initially goes back to the wetwell. The control valves then slowly close, and the flow goes out through the swing check valves.

When pumping is completed, the process is reversed providing smooth shut down.

The middle pipe, which is common to the discharge of both Pump Control Valves, discharges to the wet well. A combination Pressure Relief and Surge Anticipator Valve is on this line. If a system valve is closed, and the pump comes on, the over-pressurization opens the valve. One of its pilots is devoted to this. Should there be a pressure drop in the system, that goes below the normal static system pressure, this valve will open, and then close when the static pressure returns. Should pressure continue to drop, as with a line break, the valve will again close.

