Model CSV1W
Pump Control Valve

Installation Instructions

NOTE: Submersible motor manufacturers recommend using a flow inducer sleeve to be sure the motor is sufficiently cooled at low flows. Pressure differential across the valve cannot be more than 125 PSI.

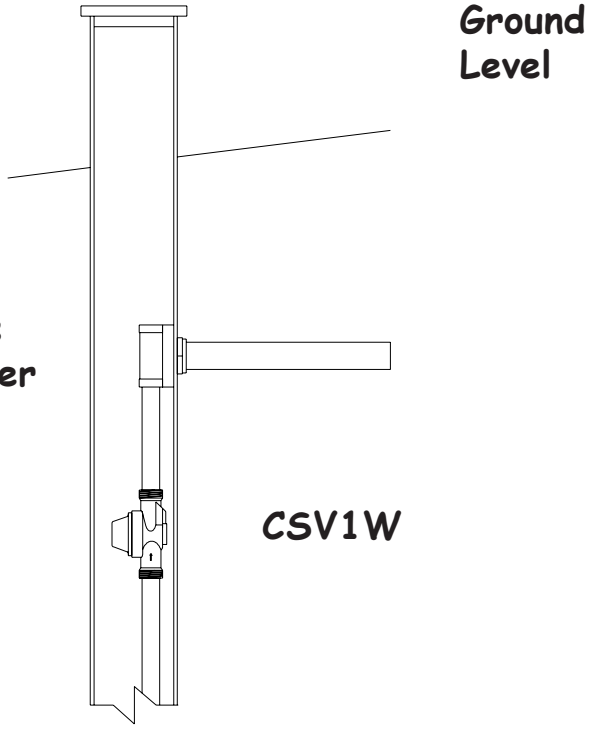
Please read all instructions before installation.

1) Be sure that the well has been pumped clean before any valve installations. It is also important that all lines including the pump be flushed clean of debris. Turn off power to pump and drain system.

2) Although this valve can be installed above ground, (see above ground install instructions)it was designed to be installed in the well below the pitless adapter, well head, or in the well pressure tank. Flow direction is indicated by the arrow on the valve body. This model is adjustable from 40-120 PSI but is factory set at 70 PSI (Note: Your pressure at the surface may be 5 to 10 PSI lower than 70 PSI because of lift and friction loss) . Pressure switch should be set at 50/70 PSI or 55/75 PSI PSI if preset valve is installed in the well. When installing in the well , be sure the white cap and oring are snapped to the top of the valve before installation. This creates a water tight seal for the valve. This cap is not necessary if the valve is installed above ground.

3) If installing valve in the well with an above ground tank, pressure switch and other controls must be installed on the small line as close to the diaphragm type pressure tank as possible. Pre-charge pressure in the tank should be 2 psi lower than pressure switch start point.

California Proposition 65 Warning
This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. (Installer: California law requires that this warning be given to consumer.)



CSV1W Troubleshooting

Symptom	Cause	Remedy
Pump is Cycling off and on	Disc is worn out	This is usually due to differential pressure being higher than 125 PSI. Use a second valve to reduce differential pressure to original valve. Replace disc in original valve.
	Pressure switch or valve not set correctly	Cut off pressure must be higher than valve pressure. Reset pressure switch or valve.
	Waterlogged pressure tank	Replace tank.
	Bad or torn diaphragm in valve	Replace diaphragm.
Low pressure	Valve is not set correctly	Reset valve (turn adjustment stem clockwise to increase pressure and counter clockwise to decrease).
	Demand is more than pump can provide at desired pressure	Reduce demand so it is within pump capabilities to maintain desired pressure.
Chattering valve	Too much air pressure in tank	Reduce air pressure in tank to 2-5 PSI below cut in pressure for in well install and 10-15 PSIfor above ground install.
	Valve seat is worn out	Replace valve.
Pump rapid cycles at start up and then begins to function correctly	Pressure switch is located too far from the pressure tank.	Move pressure switch to small line at the base of the tank on a line no larger than 1 1/4" in diameter.
	CSV setting is too close to cut off pressure	Set pressure switch cut off pressure at least 10 PSI higher than CSV setting.
	Air pressure in tank too high	Reduce air pressure in tank to 2-5 PSI below cut in pressure for in well install and 10-15 PSI for above ground install.
	Multiple check valves in system working against each other	Remove all but the check valve or foot valve on the pump itself.