



# \_Model\_ CSV1W Pump Control Valve

## Above ground 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 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) The valve must be installed on the pump side of the pressure tank/pressure switch with all water outlets downstream of the valve. Flow direction is indicated by the arrow on the valve itself. (Note: There cannot be any water outlets between the pump and the valve itself. If outlet lines exist between the well and the tank, the valve must be installed at the well head or in the well.)
- 3) The pressure tank should be installed on a tee at a 90° angle to the main discharge line downstream of the of the CSV1W. Pressure switch and other controls must be installed on the small line as close to the diaphragm type pressure tank as possible or directly on the tank tee or tank cross. Do not install pressure switch directly on main line away from pressure tank. Pre-charge pressure in the tank should be 10-15 psi lower than pressure switch start point. (See set up example below)
- 4) CYCLE STOP VALVE should be tightened using teflon tape on threaded ends. Four to seven wraps of teflon tape is usually sufficient. All connections should be water tight.
- 5) This valve is factory set at 70 PSI. If you want to reset the pressure, begin by adjusting the valve to its lowest pressure setting (40 PSI) by loosening the allen screw on the side of the adjustment screw and turning the adjustment screw counter clockwise as far as possible. Open a garden hose downstream and turn on pump. Slowly choke the hose until demand is approximately 2 GPM. Loosen the allen screw on the side to unlock the adjustment screw. The CSV1W is adjusted using a standard flat head screw driver and turning the adjustment screw clockwise to increase downstream pressure and counter clockwise to decrease downstream pressure. Adjust the CSV1W until the pressure steadies at about 10 PSI higher than the desired pressure. You can then lock the adjustment by tightening up the allen screw. The valve cap can be used for tamper resistance but is not necessary in above ground applications.
- 6) Close off downstream water usage. The pressure tank will fill at approximately 1 GPM. When using a small tank (5 gallons or less of drawdown), set your cut in pressure the same as the valve pressure. When working with a tank with more than 5 gallons of drawdown, adjust your pressure switch to its highest setting. Next, set your pressure switch shut off by closing off all water outlets and timing the tank filling. Wait a minimum of 2 minutes and adjust your pressure switch until the pump is turned off.

\* Important: Pressure switch shut off point must always be at least 10 PSI higher than the pressure regulated by the CSV1W. For example, valve set at 60, pressure switch at 60/80 or 50/70. Actual pressure switch settings vary depending on the size of the tank used and minimum run time needed.

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.)

## Above ground set up

