



Grower's Solution

Your Online Greenhouse & Nursery Supplier

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CSV1Z Installation Instructions

Produced by Grower's Solution

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CSV1Z 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.

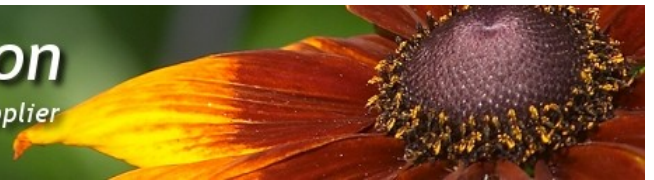
- 1) Be sure that well has been pumped clean before any valve installations. It is also important that all lines including the pump be flushed clean of debris. Turn off power to pump and drain system.
 - 2) The valve must be installed on the pump side of the pressure tank/pressure switch with all water 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.)
 - 3) The pressure tank should be installed on a tee at a 90° angle to the main discharge line downstream of the of the CSV1Z. 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 5-10 psi lower than pressure switch start point.
 - 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) Before start up, loosen lock nut on top bolt stem on the valve and turn top bolt counter clockwise until loose. Conversely, adjust the pressure switch to its highest setting. Open a small amount of water downstream and turn on pump. Slowly close lines downstream until demand is approximately 2 GPM. The CSV1Z is adjusted by turning the top bolt clockwise to increase downstream pressure and counter clockwise to decrease downstream pressure. When the CSV1Z steadies at the desired setting, close off downstream water usage. Because this valve has reduced pressure fall off, the actual valve setting may need to be higher at low flow to provide the needed pressure at maximum flow. For example, pressure loss at 30 gpm is 17 PSI . If you set the valve to hold 77 PSI at 2 GPM, your system pressure at 30 GPM will be 60 PSI.
 - 6) Close off water being used downstream. As the pressure tank fills, pressure in the system will slowly increase. After a minimum of 2 minutes, adjust the pressure switch until the pump turns off.
- * Important: Pressure switch shut off point must always be higher than the pressure regulated by the CSV1Z. Actual pressure switch settings vary depending on the size of the tank used and minimum run time needed.



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- A) Pump
- B) Motor
- C) Check valve
- D) Cycle Stop Valve
- E) Pressure tank
- F) Pressure relief valve
- G) Pressure gauge

