



**AMTROL INC.**

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# WELL-X-TROL® INSTALLATION INSTRUCTIONS

## ATTACHING ACCEPTANCE FITTINGS:

### SKIRTLESS MODELS WX-101, 102, 103 and 200

In-line Models WX-101, 102, and 103 are conventionally installed directly in the main water supply line with a 3/4" connection. For Model WX-200, a 1" fitting is used.

### SKIRTED MODELS WX-201 thru WX-350

Skirted Models WX-201 thru WX-302 are equipped with an elbow for connection to the system. The WX-201 thru WX-203 has a 1" elbow; The WX-205 thru WX-302 has a 1 1/4" elbow. The WX-350 has a 1 1/4" tee for straight through piping.

### PROPER WELL-X-TROL LOCATION

The WELL-X-TROL should be installed as close as possible to the pressure switch. This will reduce the adverse effects of added friction loss and differences in elevation between WELL-X-TROL and/or water supply main and switch.

### ADJUSTING WELL-X-TROL PRECHARGE TO SYSTEM REQUIREMENTS

WELL-X-TROLS are shipped with a standard precharge of 20 psi for Models WX-101 and WX-102, 30 psi for Models WX-103 thru WX-203, and 38 PSI for Models WX-205, WX-250, WX-251, WX-302, and WX-350. This precharge should be adjusted, when not attached to the system, as follows:

1. Remove protective air valve cap and using a suitable pressure gauge, check precharge pressure. (Tank should be at room temperature and empty of water.)
2. Release or add air as necessary to make precharge pressure 1-2 psi below the pressure switch pump cut-in setting. **NOTE:** Pressure switch setting may be out-of-adjustment, i.e., if labeled "30/50", it may be actually 28 or 29 to 48 to 49. See "Fine Tuning Procedure", below, for correcting this situation. Do not adjust WELL-X-TROL precharge for this variation.
3. Replace protective air valve cap and seal with the air valve label provided. (See Figure 1) This will enable you to determine if valve has been tampered with on possible future service calls.

When the WELL-X-TROL is installed in the system, system pressure must be reduced to exhaust the tank of acceptance water before precharging. Once this has been done, follow above steps 1-3.

### SYSTEM CONNECTION

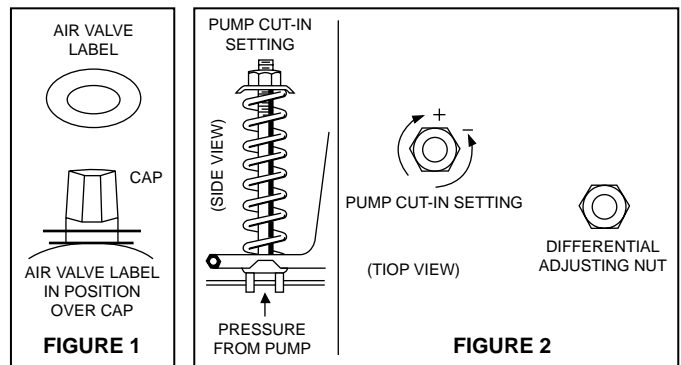
1. Locate WELL-X-TROL in final desired location.
2. Level as necessary.
3. Connect to pump supply line with same size pipe as from pump. Eliminate unnecessary friction loss.
4. All Piping should be in accordance with prevailing local codes and standards.

### FINE TUNING PROCEDURES (see chart)

Many times actual pressure switch settings will vary from the standard pressure range indicated. These variations could cause a momentary lag of water delivery as the pressure switch is not "tuned" to the WELL-X-TROL's precharge pressure.

## TO "FINE TUNE", FOLLOW THESE STEPS:

1. Fill the system and WELL-X-TROL until pump cuts off.
2. Open one or more fixtures to drain WELL-X-TROL.
3. If there is a momentary pause in the water flow from the time the WELL-X-TROL is emptied and the pump starts, adjust pump switch cut-in setting upward (clockwise) slightly. (Refer to Adjustment Instructions by switch manufacturer).



4. Close fixtures and refill WELL-X-TROL to pump cut-off. Check time to fill.
5. Open fixtures and see if pause in water is eliminated at pump cut-in. If not, continue adjusting pressure switch.

### REPLACING GALVANIZED OR EPOXY LINED TANKS WITH WELL-X-TROL

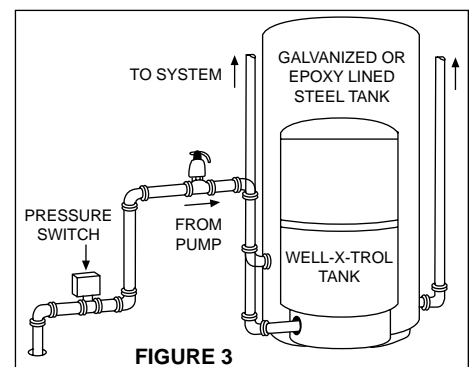
Many times a defective steel tank must be replaced with a WELL-X-TROL to provide Effective System Protection, (ESP).

It is a simple procedure and the line drawing should be followed for correct connection to the system. Because the WELL-X-TROL is precharged with air, it will always occupy less space for equal amounts of pressurized water than a galvanized or epoxy lined steel tank.

It is recommended that a relief valve be installed at the WELL-X-TROL connection to ensure system protection.

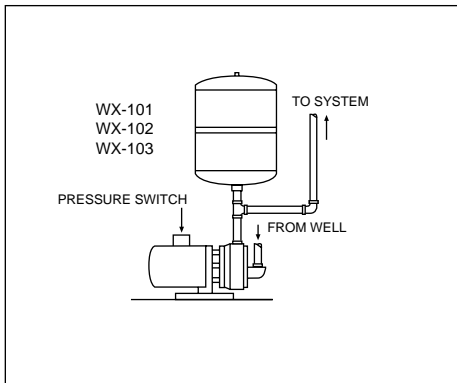
Also BE SURE to plug the air port on a jet pump, as air is no longer required to be supplied to the tank.

RECOMMENDED PIPE SIZE FOR PUMP FLOWS	
PIPE SIZE	FLOW GPM
3/4	10
1	16
1 1/4	30
1 1/2	40

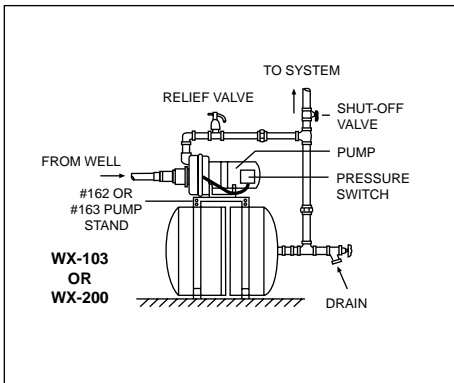


## RECOMMENDED INSTALLATIONS

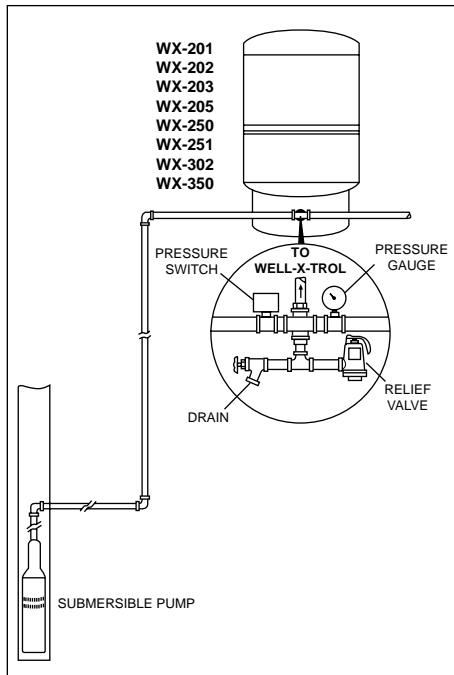
**WX-100 Series WELL-X-TROL with tank mounted at jet pump.**



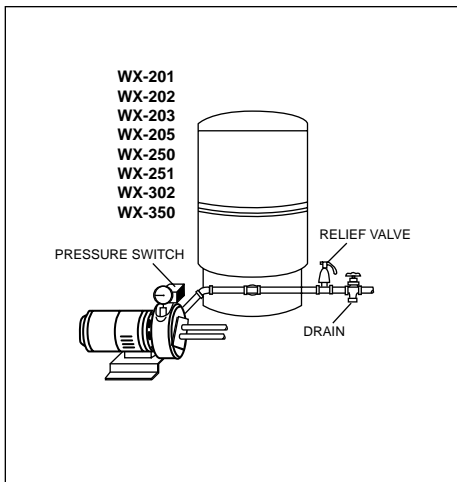
**WX-103 or WX-200 with #162 pump stand.  
WX-200 with #163 pump stand mounting jet pump.**



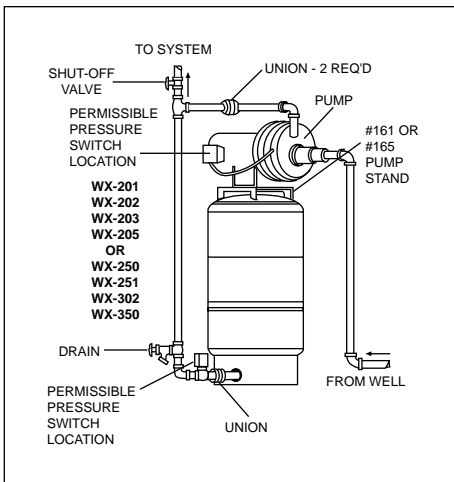
**WX-201 through WX-350 WELL-X-TROL installed on-line using submersible pump.**



**WX-201 through WX-350 WELL-X-TROL installed on-line with jet pump.**



**WX-201 through WX-203 WELL-X-TROL using #161 pump stand. WX-205 through WX-350 using #165 pump stand. Shallow well jet pump mounted on tank.**



### LIMITED WARRANTY

#### RESIDENTIAL MODELS WX-101 THROUGH WX-350 INCLUDING ALL OPTIONS.

AMTROL Inc. warrants to the original purchaser its Well-X-Trol® Pre-pressurized Diaphragm Well Tank is of the kind and quality set forth in written specification and is free from defects in materials and workmanship under normal use and service when used in the manner for which the Well-X-Trol was designed and intended. AMTROL, as its sole and exclusive obligation under this warranty, will repair or replace at its option a Well-X-Trol or part thereof without charge in case of a defect, malfunction or failure to conform to this warranty within five (5) years from the date of manufacture. AMTROL will not however, accept or otherwise be liable for any claims for labor costs incurred by the consumer in removing or reinstalling a Well-X-Trol and/or part thereof. This warranty does not apply if the defect is due to failure to use the Well-X-Trol tank for its intended purpose, the result of accident, abuse, misuse, or unauthorized alteration, or because the Well-X-Trol Tank was not installed and maintained in accordance with the printed instructions which accompanied it. **IN NO EVENT SHALL AMTROL, INC. BE LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES.** Some states do not allow the exclusion or limitation of incidental, special or consequential damages, so the above limitation or exclusion may not apply to you.

THE WARRANTIES SET FORTH HEREIN ARE IN LIEU OF ANY AND ALL OTHER EXPRESSED WARRANTIES. ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE 5-YEAR PERIOD OF THIS LIMITED WARRANTY. Some states do not allow limitations on how long an implied warranty last, so the above limitation may not apply to you.

In order to obtain service under this warranty, the consumer must contact the installer or dealer where the unit was purchased. The installer or dealer must contact the distributor who will then contact AMTROL and AMTROL may require the defective Well-X-Trol Tank to be returned to AMTROL (freight prepaid) to process the warranty claim. Defective tanks covered under this warranty will be replaced or repaired at the factory, and returned to the distributor (freight prepaid). In replacing or repairing parts or products, AMTROL reserves the right to make such changes in the details of design construction, arrangement, or materials as shall in its judgement constitute an improvement over former practice.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.