

## INSTALLATION AND OPERATING INSTRUCTIONS

Precharged Well Tanks / 125 PSIG Rating  
Models: 4PRO4SWT through 4PRO44SWT



## Pre-Pressurized Water System Well Tanks

Your well tank by 4PRO has been carefully assembled and factory tested. To enjoy the full service your well tank can provide, you should read and follow all of the instructions in this manual. You should also read carefully the sections describing proper product maintenance, and follow the required procedures as you use your well tank. Return this booklet to its original envelope, and keep it with the well tank. This manual may become out-of-date by later amendments. Ask your 4PRO supplier for any updates relating to your product. This product comes with a limited five (5) year warranty, see 4PRO Limited Warranty for details. Our goal is to ensure you are fully satisfied with your new well tank. If any questions or concerns arise, contact The Granite Group at 603-545-3300.



**THIS IS THE SAFETY ALERT SYMBOL. IT IS USED TO ALERT YOU TO POTENTIAL PERSONAL INJURY AND OTHER HAZARDS. OBEY ALL SAFETY MESSAGES THAT FOLLOW THIS SYMBOL TO REDUCE THE RISK OF POSSIBLE INJURY AS WELL AS PROPERTY DAMAGE.**

**NOTE:** Inspect for shipping damage and notify freight carrier or store where purchased immediately if damage is present. To avoid risk of personal injury and property damage, if the product appears to be malfunctioning or shows signs of corrosion, call a licensed professional immediately. Current copies of the Product manual can be viewed at [www.4PRO.com](http://www.4PRO.com). Use proper safety equipment when installing.



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**READ CAREFULLY THE PRODUCT INSTALLATION & OPERATION INSTRUCTIONS. FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS IN THE MANUAL MAY RESULT IN SERIOUS OR FATAL INJURY AND/OR PROPERTY DAMAGE, AND WILL VOID THE PRODUCT WARRANTY. THIS PRODUCT MUST BE INSTALLED BY A LICENSED PROFESSIONAL. FOLLOW ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS. IN THE ABSENCE OF SUCH CODES, FOLLOW THE CURRENT EDITIONS OF THE NATIONAL PLUMBING CODE AND NATIONAL ELECTRIC CODE, AS APPLICABLE. EXPLOSION OR RUPTURE HAZARD. THE WELL TANK MUST BE OPERATED SO THAT THE PRESSURE DOES NOT EXCEED THE MAXIMUM WORKING PRESSURE.**



**EXPLOSION HAZARD.** Failure to follow the instructions in the product manual can cause a rupture or explosion; possibly causing serious or fatal injury, leaking or flooding and/or property damage.



Use only with a potable water system. Do not operate in a setting with freezing temperatures or where the temperature can exceed 130°F and do not exceed the maximum working pressure specified for this Product in the Manual. Mount vertically only.



**Chlorine & Aggressive Water:** The water quality can significantly influence the life of this Product. You should test for corrosive elements, acidity, total solids and other relevant contaminants, including chlorine and treat your water appropriately to insure satisfactory performance and prevent premature failure.



This Product, like most Products under pressure, may over time corrode, weaken and burst or explode, causing serious or fatal injury, leaking or flooding and/or property damage. To minimize risk, a licensed professional must install and periodically inspect and service the Product. A drip pan connected to an adequate drain must be installed if leaking or flooding could cause property damage. Do not locate in an area where leakage of the tank or connections could cause property damage to the area adjacent to the appliance or to lower floors of the structure.



**EXPLOSION OR RUPTURE HAZARD** A relief valve must be installed to prevent pressure in excess of local code requirement or maximum working pressure designated in the Product Manual, whichever is less. Do not expose Product to freezing temperatures or temperatures in excess of 130°F. Do not adjust the pre-charge or re-pressurize this Product except for any adjustments required at the time of initial installation, especially if Product is corroded, damaged or has diminished integrity. Adjustments to pre-charge must be done at ambient temperature only. Failure to properly size the Product or follow these instructions may result in excessive strain on the system, lead to Product failure, serious or fatal personal injury, leakage and/or property damage.



This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

**IMPORTANT GENERAL SAFETY INFORMATION - ADDITIONAL SPECIFIC SAFETY ALERTS APPEAR IN THE FOLLOWING INSTRUCTIONS.**

**⚠ WARNING DANGER! EXPLOSION HAZARD.** WHEN THE WELL TANK HAS BEEN IN SERVICE AND A CHANGE TO A HIGHER PRE-CHARGE PRESSURE IS NECESSARY DUE TO A REQUIRED CHANGE IN THE PRESSURE SWITCH SETTING, FAILURE TO FOLLOW INSTRUCTIONS BELOW CAN CAUSE A RUPTURE OR EXPLOSION, POSSIBLY CAUSING SERIOUS OR FATAL PERSONAL INJURY, AND/OR PROPERTY DAMAGE.

- DO NOT ADJUST OR ADD PRESSURE IF THERE HAS BEEN A LOSS OF AIR.
- DO NOT ADJUST THE PRE-CHARGE PRESSURE IF THERE IS VISIBLE EXTERIOR CORROSION.
- DO NOT ADJUST THE PRE-CHARGE PRESSURE IF THERE HAS BEEN A REDUCTION OF THE PUMP CYCLE TIME OR THE PRE-CHARGE PRESSURE COMPARED TO ITS INITIAL SETTING. THIS IS BECAUSE REDUCTION IN PUMP CYCLE TIME CAN RESULT FROM LOSS OF TANK AIR PRESSURE WHICH IN TURN CAN MEAN THERE MAY BE INTERNAL CORROSION AND ANY RE-PRESSURIZATION OR ADDITIONAL PRESSURE COULD RESULT IN RUPTURE OR EXPLOSION.

**⚠ WARNING MAXIMUM WORKING PRESSURE.** Every 4PRO is tested to 125 psig, the maximum working pressure for the 4PRO line.

**⚠ WARNING RELIEF VALVE REQUIRED.** A relief valve should be installed which is set to open at excessive pressures (100 psig or more). This will protect the 4PRO and other system components should the pressure switch malfunction and fail to shut the pump off. The relief valve should be installed at the connection of the 4PRO to the system piping and have a discharge equal to the pump's capacity at 100 psig.

**⚠ CAUTION** AS IN ALL PLUMBING PRODUCTS AND WATER STORAGE VESSELS, BACTERIA CAN GROW IN YOUR WELL TANK, ESPECIALLY DURING TIMES OF NON-USE. CONSULT YOUR LOCAL PLUMBING OFFICIAL REGARDING ANY

STEPS YOU MAY WISH TO TAKE TO SAFELY DISINFECT YOUR HOME'S PLUMBING SYSTEM.

**⚠ WARNING** A water test must be taken before installation of any water treatment equipment.

**⚠ WARNING DANGER! EXPLOSION HAZARD.** IF YOU ADJUST THE PRE-CHARGE PRESSURE OR ADD PRESSURE TO A TANK THAT IS CORRODED OR DAMAGED OR WITH DIMINISHED INTEGRITY, THE TANK CAN BURST OR EXPLODE, POSSIBLY CAUSING SERIOUS OR FATAL PERSONAL INJURY AND/OR PROPERTY DAMAGE.

- ONLY ADJUST THE PRE-CHARGE AS DESCRIBED IN THIS MANUAL WHEN THE TANK IS NEW OR WHEN THE INTEGRITY OF THE TANK AND LACK OF INTERNAL OR EXTERNAL CORROSION IS CONFIRMED.
- ONLY LICENSED PROFESSIONALS SHOULD CHECK, ADJUST OR RE-CHARGE THE PRE-CHARGE OF TANKS.

**⚠ WARNING** For your safety, the information in this manual must be followed to minimize the risk of electric shock, property damage or personal injury.

- Properly ground to conform with all governing codes and ordinances.

**⚠ WARNING** Do not install in direct sunlight. Excessive sun heat may cause distortion or other damage to non-metallic parts.

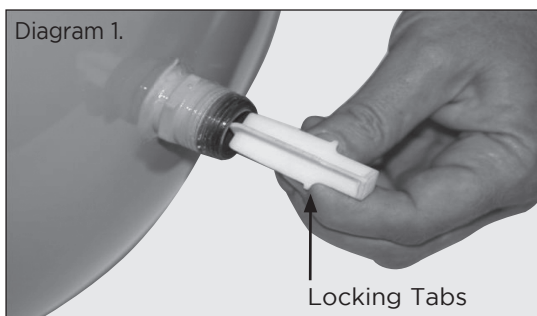
**⚠ WARNING** Use only lead-free solder and flux for all sweat-solder connections, as required by state and federal codes.

**⚠ WARNING ELECTROCUTION AND EXPLOSION HAZARD.** Before work is performed on the tank, turn off the power to the pump and release all water pressure in the tank and pumping system.

## Installation of In-Line Turbulator® for In-Line Model

The In-Line Turbulator water circulation device is designed to circulate the water stored in your diaphragm well tank.

1. Inspect the In-Line Turbulator for any damage that may have occurred during shipping. Insert the In-Line Turbulator (Diagram 1) into the system connection of the well tank. The Turbulator can only be inserted with the butt end out as the locking tabs prevent it from being installed backwards.



2. Palm press the In-Line Turbulator until the unit locking tabs butt up against the system connection.
3. Your diaphragm well tank is now ready to be installed.

## Installation System Connection

**In-line Model:**

4PRO4SWT: 1" NPTM

**Vertical Stand Models:**

4PRO20SWT through 4PRO44SWT: 1" NPTF

## Installation

The surface on which the 4PRO is installed should be capable of supporting its operating weight (including the weight of water). The 4PRO 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 4PRO and/or water supply main and switch.

**Adjacent to pump:** This is the location chosen most often. The 4PRO tank can be used whether pumps are above or below the surface. In either case, it protects the pump by reducing surge, dampening pressure spikes, offering a point of pressure control, and providing minimum run time. This location also permits all equipment to be placed in an area that's both serviceable and secure.

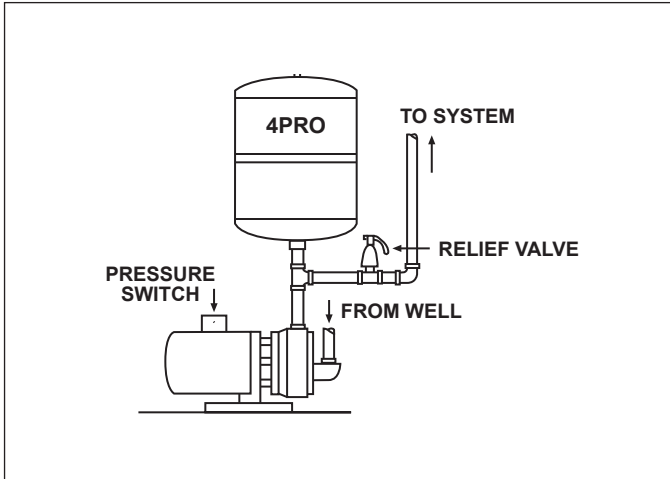
**At the end of long pipe runs:** The 4PRO tank can be positioned at the end of a long run of pipe so it can provide rapid system response and adequate protection. When this location is chosen, the pressure switch should either be relocated with the 4PRO tank or the setting should be adjusted to compensate for any line pressure drop.

**⚠ WARNING DO NOT LOCATE IN AN AREA WHERE LEAKAGE OF THE TANK OR CONNECTIONS COULD CAUSE PROPERTY DAMAGE TO THE AREA ADJACENT TO THE APPLIANCE OR TO LOWER FLOORS.**

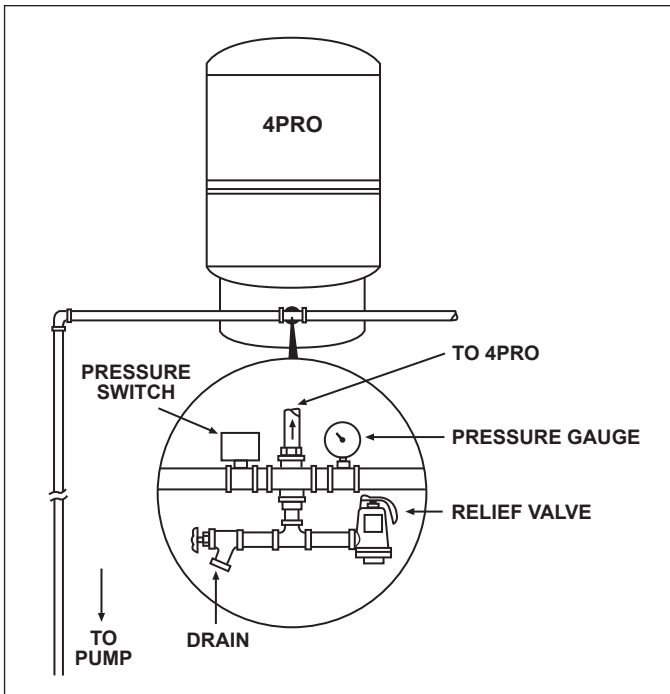
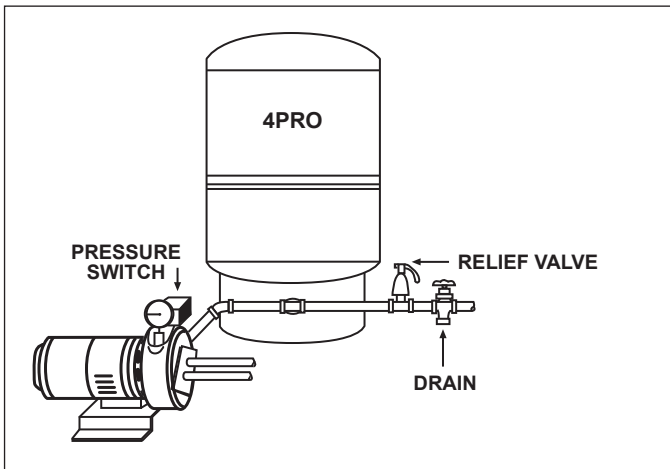
1. Remove protective air valve cap.
2. Check pre-charge pressure.
3. Release or add air as necessary to set the pre-charge pressure 2 psig below the pressure switch pump cut-in setting. (Example, 38 psig precharge for a 40/60 pressure.)
4. Replace protective air valve cap.

## Suggested Piping Diagrams

### In-line Models:



### Vertical Models:

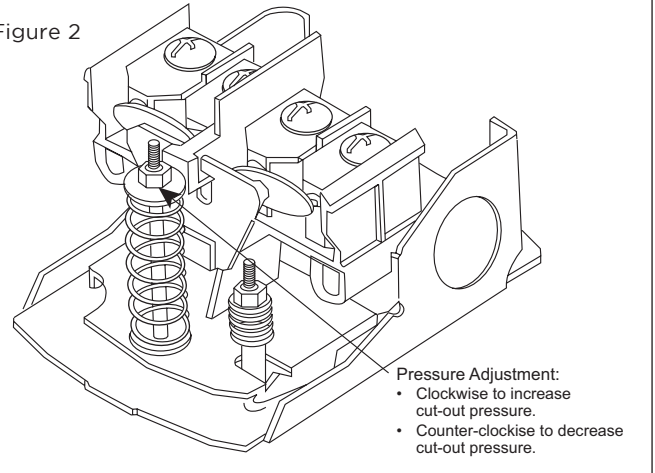


## Start Up

### Fine Tuning Procedures

1. Restore power and pressurize system until pump cuts off.
2. Open one or more fixtures to reduce pressure and initiate a pump cycle.
3. Check operation. Make adjustments only when the tank is empty of water and the system is off.

Figure 2



## Adjusting Precharge After Installation

**Step 1.** Drain tank of all water. Check precharge pressure in the 4PRO Tank.

**Step 2.** Release or add air as necessary to set the precharge pressure 2 psig below the pressure switch pump cut-in setting.

## Maintenance

A licensed professional should check the complete system, including the 4PRO, yearly and more frequently as the system ages.

## Warranty

Five (5) Year Limited Warranty

## LIMITED PRODUCT WARRANTY

**IMPORTANT WARNING:** Read the Installation and Operation Instructions carefully to avoid serious personal injury and/or property damage and to ensure the safe use and proper care of the product.

### Who receives 4PRO's limited product warranty?

- The original purchaser or first user of the product. This warranty cannot be transferred.
- By accepting this product you agree to all of the warranty terms and limitations of liability described below.

### What is covered by this limited product warranty?

- 4PRO warrants that, at the time of manufacture, the product is free from defects in material and workmanship.

### What is not covered by this limited product warranty?

- Labor costs, additional parts, shipping charges, service charges, delivery expenses, administrative fees or any costs incurred in removing or installing the replacement parts or product.
- Property damage or any other costs of any kind.
- Any problem, failure or malfunction resulting from:
  - Abuse (including freezing), improper or negligent handling, shipping (by anyone other than 4PRO), improper storage, accident, lightning, flood or any other environmental condition.
  - Improper installation, set-up, operation or maintenance.
  - Use of the product for any purpose other than those specified in the Instructions.
  - Alteration of any part of the product.

### What is the duration of the warranty period?

- The duration of the warranty period is measured from the date of purchase UNLESS the product is installed more than 18 months after the date of manufacture. Product installed more than 18 months after the date of manufacture carries the balance of the applicable warranty period, measured from the date of manufacture, not the date of installation, and may void the limited lifetime warranty.

### How can a warranty claim request be submitted?

- All warranty claims must be approved solely by 4PRO.
- Contact the company or individual from whom you purchased the product and they will submit the claim to 4PRO for approval.
- Warranty claims must be made within 30 days of the failure and no more than 30 days after the expiration of the applicable warranty period.

### What does 4PRO require?

- Proof of purchase and original ownership.
- Proof of home ownership at the time of installation and at the time of product failure.
- Product model and serial number/date code of original and replacement units.
- 4PRO may require that the warranty claimant ship the product, postage prepaid, to an authorized distributor or to 4PRO.
- 4PRO may require additional information as evidence that the product was installed, operated and maintained according to the instructions.

### What will 4PRO do to resolve a covered warranty claim?

- 4PRO will, at its option, either make repairs to correct any defect in material or workmanship or supply either new or used replacement 4PRO parts or products.
- 4PRO reserves the right to make changes in the design, construction or material of the substitute parts or products.
- Any unit replaced within the standard warranty period will carry the balance of the original warranty.

### What is the warranty period for replacement parts or products?

- Replacement parts or products supplied under this warranty do not carry a new warranty, only the balance of the original warranty.

### What are the limitations of implied warranties?

- THE WARRANTIES CONTAINED HEREIN ARE THE EXCLUSIVE WARRANTIES FOR THE PRODUCT AND ARE GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESS AND IMPLIED. NO 4PRO SALES REPRESENTATIVE OR ANY OTHER THIRD PARTY IS AUTHORIZED OR EMPOWERED TO PROVIDE 4PRO WARRANTY COVERAGE FOR AN 4PRO PRODUCT. ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE SPECIFICALLY DISCLAIMED. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

### Limitations of Remedies:

- THE REMEDIES CONTAINED IN THIS WARRANTY ARE THE PURCHASER-FIRST USER'S EXCLUSIVE REMEDIES. IN NO CIRCUMSTANCES WILL 4PRO BE LIABLE FOR MORE THAN, AND PURCHASER-FIRST USER'S REMEDIES SHALL NOT EXCEED, THE PRICE PAID FOR THE PRODUCT. IN NO CASE SHALL 4PRO BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NON-DELIVERY OR FROM THE USE, MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT OR FROM 4PRO'S OWN NEGLIGENCE OR OTHER TORT. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, strict liability, in tort or under any other legal theory. Such damages include, but are not limited to, inconvenience, loss or damage to property, mold, loss of profits, loss of savings or revenue, loss of use of the products or any associated equipment, facilities, buildings or services, downtime and the claims of third parties including customers. Some states do not allow the limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.



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