



ELBI OF AMERICA  
15882 DIPLOMATIC PLAZA SUITE 170  
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## **Diaphragm & Bladder Expansion Tank Installation Procedures**

1. Visually inspect tank for damage, which may have occurred during transit. If damaged delivering carrier must be notified. Please contact **Elbi of America, Inc.** prior to installation at **(Toll Free) 1-800-406-8850**.
2. Factory pre-charge pressure of 12 psi may not be correct for the installation. Pressure may be adjusted to system conditions.
3. **Bladder or Diaphragm Tank MUST be pre-charged to system design fill pressure before placing into operation. Check and adjust the charge by adding or releasing air for each application by way of air charging valve located at the top of the vessel. Temperature limit on bladder is 240° F. We do not recommend consistent temperature conditions beyond 240° F.**
4. If pre-charge adjustment is necessary, oil and water free compressed air or nitrogen gas may be used. Check the pre-charge using an accurate pressure gauge at the charging valve and adjust as required. Check air valve for leakage. If evident, replace with Schrader type tire valve core. Do not depend on the valve cap to seal the leak. After making sure air charge is correct, replace cap over charging valve for stem protection.
5. Pre-charge should be +/- 2 PSI below minimum system pressure.
6. Set tank in place and pipe system connection to system. Be sure to include isolation valve(s) and drain. Do not loosen bolts on cover plate – this will result in loss of pre-charge. Cover plates and bolts should only be removed when bladder replacement is required. **The air pressure in the tank MUST be bled off to zero PSI gauge pressure.**

7. Purge residual air from system before putting tank into operation.
8. When filling the system with water, open valves to tank to ensure that any trapped air in the tank is displaced by water.
9. Both top and bottom cover plates access the bladder. We recommend that only the bottom system connection be used as system connection. In the event that a top outlet connection is desired the cover plate assembly can be alternated. Please check for leak with soap and water to insure a water tight connection. Tank should be checked once a year for pressure and visible exterior damage.
10. Failure to follow suggested start-up may result in poor product performance and possible premature failure. Warranty consideration will be considered void under these circumstances.