

## Expansion Bladder Tanks

### I&O Manual EBT-30-xx thru EBT-48-xx



1. Visually inspect tank for damage, which may have occurred during transit.
2. Factory pre-charge pressure may not be correct for the installation.
3. Tank **MUST** be pre-charged to system design fill pressure **BEFORE** placing into operation.
4. Remove Shrader valve cap, check and adjust the charge by adding or releasing air for each application.
5. **If the system has been filled, the tank must be isolated from the system and the tank emptied before charging. This ensures all fluid has exited the bladder and proper charging will occur.**
6. If pre-charge adjustment is necessary, oil-free and water-free compressed air or nitrogen gas must be used. To avoid excessive pressures, compressed air or nitrogen gas must be regulated (using an appropriate pressure regulating valve) at or below the maximum working pressure of the tank (as noted on the data plate). 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 Shrader type tire valve core. Do not depend on the valve cap to seal the leak. After making sure air charge is correct.
7. Set tank in place and pipe system connection **TEE** to system. Be sure to include isolation valve(s) and an air vent valve/drain. Do not loosen nuts on cover plate -this will result in loss of pre-charge. Cover plate nuts should only be removed when replacing bladder, and then only after the air pressure in the tank has been bled off to zero gauge pressure.
8. Purge air from system **BEFORE** placing tank into operation using the isolation valve at or near the **tee** at system connection. All models have system water contained inside bladder.
9. Slowly fill the system with water, open valves to vent any air in system water side to ensure that any residual air in the tank is displaced by water.
10. The auxiliary connections may be used for gauges, relief valves, etc. Any connection not used must be plugged and checked for any air leakage.