

INSTALLATION & OPERATION INSTRUCTION

WLA REPLACEABLE BLADDER TANKS

VESSEL DESCRIPTION

American Wheatley tanks are ASME constructed, pre-charged bladder expansion tanks. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems. The system's expanded water (fully compatible with water/glycol mixtures) is contained in a heavy-duty bladder preventing tank corrosion and water logging problems. The factory set pre-charge for these tanks is 12 psig.

The tank pre-charge should be set equal to the minimum system pressure required at the point where the tank is installed.

CAUTION: Initial tank pre-charge should not exceed 80 psig. Bladder failure may occur. For applications requiring elevated pressure beyond 80 psig pre-charge, refer to I/O sheet HIPRESS05.

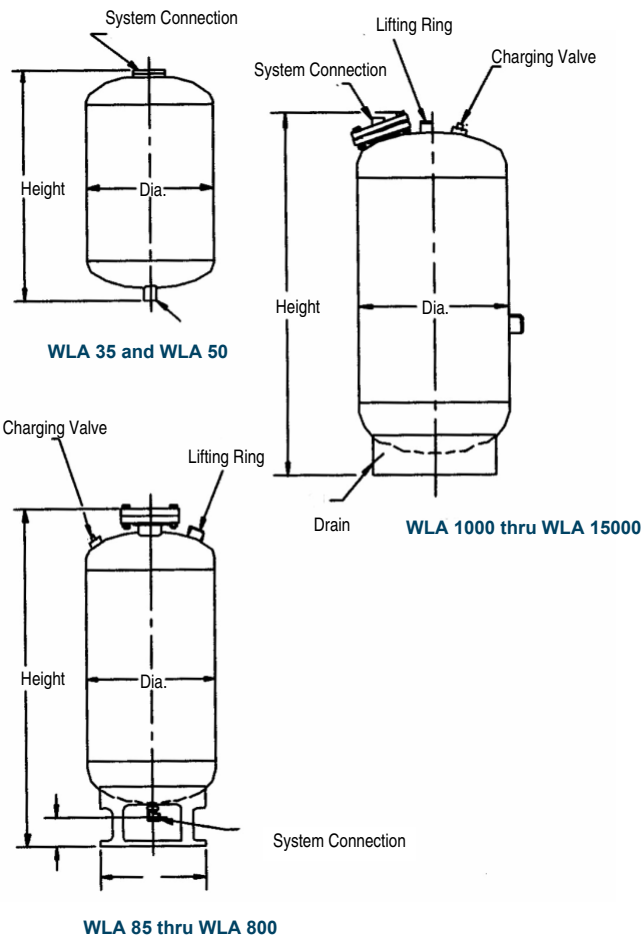
IMPORTANT: when pressure testing the system piping, the expansion tank must be isolated from the elevated pressure test. Bladder stress and premature failure may result. When filling the system with water, open valves to tank to ensure that any residual air in the tank is displaced by water. It is recommended that the pre-charge be checked annually to ensure proper system protection and long-life for the vessel.

Tank Preparation: Visually inspect tank for damage, which may occur during transit. Factory pre-charge pressure may not be correct for the installation. Pre-charge is typically set to equal the system pressure. If unsure, consult a factor representative. **Must** be pre-charged to system design pressure **BEFORE** placing into operation. Remove pipe plug covering the valve enclosure. Check and adjust the charge pressure by adding releasing air for each application. **Caution: do not exceed 80 psig pre-charge - Refer to IOHIPRESS05.**

If system has been filled with water and the tank has been through several cycles, 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.

If the 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 gage at the charging valve and adjust as required. Check air valve for leakage. If evident, replace the Schrader-type tire valve core. Do not depend on the valve cap to seal the leak. After making sure air charge is correct, replace protective cover over the charging valve for protection.

Set tank in place and pipe system connection to system. Be sure to include isolation valve and drain. Do not loosen nuts on cover plate; this will result in loss of pre-charge. Cover plate should only be removed when replacing bladder, and then only after the tank has been bled to zero gauge pressure.



JOB NAME _____
LOCATION _____

CONTRACTOR _____
CONTRACTOR P.O. NO. _____

ITEMS	QUANTITY
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

American WHEATLEY
HVAC PRODUCTS®
A GFP COMPANY

5454 South 103rd East Avenue
Tulsa, OK 74146
Toll Free: 866-204-5229
PH: 918-592-5058
FAX: 918-622-4288
www.wheatleyhvac.com
e-mail: globalflow@sbcglobal.net