

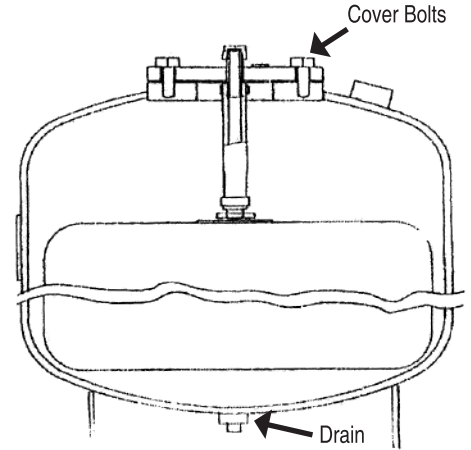
WPA Bladder Expansion Tank

Instructions for Bladder Change in the Field

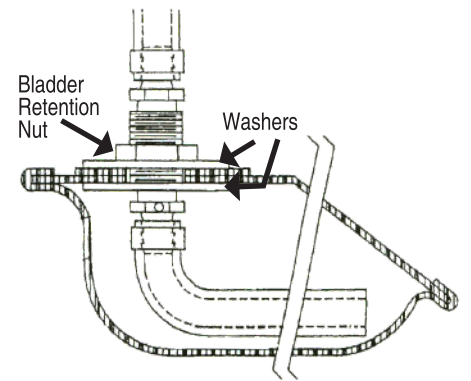
RECOMMENDED TOOLS AND SUPPLIES:

- | | |
|--------------------------|-------------------------------|
| 1. Plumbers tool box | 5. Work light |
| 2. Compressed air source | 7. Portable pump (as needed) |
| 3. Replacement Bladder | 8. Extension cord (as needed) |
| 4. Pressure gauge | |

- Isolate bladder-type expansion tank from system. Shut off automatic fill-valve and drain boiler to release all system pressure.
- Bleed system air charge through air charging valve. Remove air valve core at top of the tank and discharge remaining air.
- Open drain plug located at bottom of tank.
- Disconnect tank from system.
- Loosen cover bolts from tank. Bladder is secured on bottom of cover flange with a hose assembly. Carefully remove cover flange and hose assembly with bladder from pressure vessel. Note: it may be necessary to cut a hole in bladder allowing extraction from tank.
- Examine and clean bladder hose assembly attached to the upper flange.
- Loosen Bladder retention nut and remove defective bladder. Install new Bladder in reverse procedure.
- If necessary, pump water out of the bottom of the tank. Also, if necessary, hose down the walls of the inside of the tank.
- Clean up any remaining water, dry out the inside of the tank, and clean out any remaining dirt or foreign particles. Check the inside tank walls for any sharp edges that may cut the bladder.
- Insert new Bladder, hose assembly and cover into tank.
- Tighten bolts evenly, using a star pattern.
- Using compressed air source and pressure gauge, apply 10 psi air pressure to the flange connection and then relieve pressure. These actions should ensure proper positioning of the replacement bladder within the tank.
- Clean drain plug and coupling.
- Reassemble the drain plug, using a liberal amount of thread seal compound. The connection must be air-tight.
- Reassemble the air valve at the top of the tank.
- Precharge tank to fill-pressure or minimum operating pressure.
- Using soapy water, check the drain fitting threads, air valve and flange joint for leakage.
- Reconnect the system, open the fill-valve and check operation of the tank. Always precharge tank before completing this step.



Tank Diagram



Tank Diagram

JOB NAME _____
LOCATION _____

CONTRACTOR _____
CONTRACTOR P.O. NO. _____

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

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