

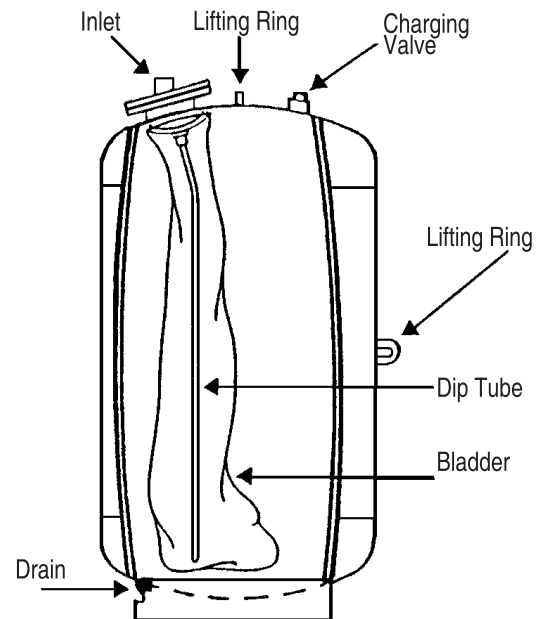
WFA Bladder Expansion Tank

Instructions for Bladder change

RECOMMENDED TOOLS AND SUPPLIES:

- | | |
|--------------------------|----------------------------------------------------------|
| 1. Plumbers tool box | 6. Length of rope or cord |
| 2. Compressed air source | 7. Work light |
| 3. Replacement Bladder | 8. Portable pump (as needed) |
| 4. Chain block | 9. Extension cord (as needed) |
| 5. Pressure gauge | 10. Wooden stick, at least 1 ft. longer than tank height |

- 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.
- Remove bolted upper flange.
- Examine and clean bladder hose assembly attached to the upper flange. Replace as necessary.
- Pump water out of the bladder as necessary.
- Pump any remaining water out of the bottom of the tank. Also, if necessary, hose down the walls of the inside of the tank.
- Check the internal walls of the tank for any rust debris and sharp edges that may cut the bladder. Remove debris and sharp edges as necessary.
- Carefully roll up the replacement bladder lengthwise, with both sides rolled toward the middle like a scroll. This insures the bladder will expand without twisting when filled. Secure at intervals with rope or cord in order to keep it rolled.
- Insert the replacement bladder, removing the rope or cord as it nears the tank opening. Many times, on larger sized tanks, the bladder may be inserted more easily with the tank laying on its side on the floor.
- With the long wooden stick, carefully clear an opening for the dip tube. Extreme care must be taken not to puncture the bladder.
- Checking the markings which were made on the flanges, line up the upper and lower flanges and assemble the upper mating flange. 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 sealant. This 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.



JOB NAME _____
LOCATION _____

CONTRACTOR _____
CONTRACTOR P.O. NO. _____

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