



Bladder Replacement Installation Procedures

Tanks with cover plate assembly (790 gallon thru 1320 gallon)

ASME BLADDER TANKS - HTL/DTL/WTL SERIES

Bladder Replacement Instructions for Models 3000 - 5000 Liter

I. Bladder Removal:

CAUTION: Before attempting any repairs or bladder replacements the air pre-charge must be reduced to zero.

Using an appropriate air tool, bleed off all air from tank until gauge reads zero.

Do not attempt to remove air charge valve until all air pressure has been removed - as verified by gauge reading zero. Personal injury could occur if this procedure is not strictly adhered to.

- A: Remove bottom cover bolts (Item 1) and washers (Item 2).
- B. Remove the bottom flange cover.
- C. Remove the top flange cover by removing bolts and washers.
- D. Remove bladder through top or bottom flange opening (whichever is easier).

II. Bladder Installation:

- A. Carefully clean tank flange surface area and clean mating face of removed flange covers.
- B. Bladder will need to be carefully folded longitudinally and tight enough to push through top flange opening.
- C. Carefully push the bladder through the top flange opening and continue to push until it reaches bottom of tank.
- D. Pull bladder flange through bottom and rotate bladder until there is no twisting of bladder within tank and both bladder flanges are firmly seated against the top and bottom tank flanges.

CAUTION: If necessary, use a flashlight to ensure there is no twisting of bladder before continuing with re-installation.

- E. Re-install the top flange cover and secure bolts and washers in alternating sequence.
- F. Re-install the bottom flange cover and secure bolts and washers in alternating sequence.

NOTE: When tightening the flanges against the bladder flange and tank, make sure bladder flanges are fully compressed to ensure a tight seal. If for some reason the bolts bottom out before proper compression is realized, remove the bolts, and install an additional washer under the head of each bolt. Re-tighten and ensure bladder flange is tightly compressed.

III. Air Leak Testing:

- A. Before reconnecting plumbing to tank flanges (top and bottom) a leakage test should be performed at this time.
- B. Remove protective threaded plug (Item 6).
- C. Connect an appropriate air charging device to the air valve (Item 7).
- D. Charge tank to factory recommended air pressure and/or anticipated initial start-up pressure.

- E. Using a soap solution check for leakage around the entire periphery of both top and bottom flange cover make up areas. Check air pressure again after one hour to ensure there is no loss of air charge.
- F. Re-install threaded plug if there is no leakage and continue with plumbing required.

