



**ASME BLADDER TANKS - HTS/DTS/WTS SERIES**  
Bladder Replacement Instructions Models 8 - 45 Liter (2 to 12 Gallon.)

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

- A. Remove 6 ea bottom cover bolts (Item 1) and 6 ea. Washers (Item 2).
- B. Remove Flange Cover (Item 3).
- C. Remove bladder (Item 4) through flange opening.

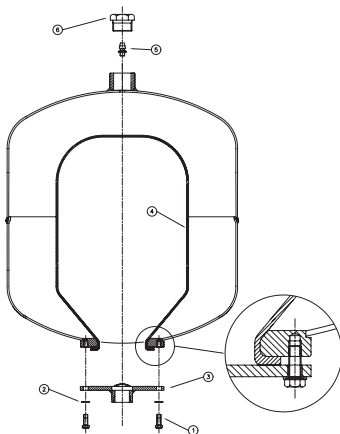
**II. Bladder Installation:**

- A. Carefully clean tank flange surface area and clean mating face of removed flange cover.
- B. Carefully roll up bladder longitudinally and insert into tank through bottom flange opening.
- C. Rotate bladder until bladder flange is perfectly flat against tank mating flange face.
- D. Ensure bladder is fully open inside tank and there is no twisting of bladder.
- E. Re-install flange cover (Item 3) and secure with the 6 ea. bolts and washers.

**NOTE:** When tightening the flange cover against the bladder flange and tank flange, make sure bladder flange is 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 bottom flange 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 5).
- 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 the flange make-up area.  
Check air pressure again after one hour to ensure there is no loss of air pre-charge.
- F. Re-install threaded plug if there is no leakage and continue with plumbing required.



**BILL OF MATERIAL**

ITEM	QTY	DESCRIPTION
1	6	THREADED HEX BOLTS (M 6)
2	6	WASHER (M 6)
3	1	COVER PLATE
4	1	BUTYL RUBBER
5	1	AIR CHARGING VALVE
6	1	THREADED CAP

\* NOTE: 12 GALLON TANK INCLUDES SKIRT