

## **AIR LEAK CHECK PROCEDURES (NLA, FXA, TXA)**

Please perform the following procedures to help determine the nature of the air leak:

If the tank has not yet been piped to the system:

1) Charge the tank to system pressure using the air charge valve.

A. If the tank will not hold an air charge at all, there is probably a hole in the bladder and the air is escaping through the system connection. Replacing the bladder will correct this problem.

2) Apply a soapy water solution around the air charge valve, the space between the top cover and tank head, all plugged tappings, along all of the weld seams, and on the bottom head at the system connection. This will indicate if the air leak is caused by a bad seal or weld.

A. If the air leak is around the air charge valve, first try tightening it. If that doesn't stop the leak, try removing the valve (\*bleed off the air charge first!) and re-applying a pipe thread sealant - then re-install the valve.

B. If the air leak is coming from within the valve, the valve must be replaced.

C. If the leak is coming from between the top cover and the tank head, first try tightening the nuts on the top cover. If that doesn't stop the leak, try removing the cover (\*bleed off the air charge first!) and look for any foreign object on the gasket that might be breaking the seal. Make sure the gasket is flat on the pad flange, replace the cover and tighten the nuts. Charge the tank and re-apply the soapy water solution to make sure the seal formed.

D. If the air leak is coming from around the system connection at the bottom, try tightening the jam nut (between the tank head and the elbow). Call for instructions if the air leak is still present after tightening the jam nut.

E. If the air leak is coming from a weld seam, the tank must be replaced. Fill out a warranty checklist (if within the warranty period) and an RMA will be issued.

If the tank is piped to the system:

1) Press the air valve release - if water comes out of the air charge valve the bladder has failed and needs to be replaced. If no water comes out, proceed to step 2.

2) Isolate the tank from the system and drain the tank. Charge the tank to system pressure using the air charge valve. Apply a soapy water solution as outlined above to check for air leaks.