



SINCE 1908  
**wessels**  
 company

**INSTALLATION & OPERATION**

**TYPE:** ASME PLAIN STEEL EXPANSION TANKS FOR HEATING & COOLING SYSTEMS

**MODELS:** NA SERIES  
 I/O Sheet No. IONA03

Date: 2-03

**VESSEL DESCRIPTION**

Wessels Type NA Tanks are ASME constructed, plain steel, atmospheric expansion tanks. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems. The system's expanded water enters the tank and further compresses the pressure controlling air cushion.

**CONSTRUCTION**

Shell: Carbon Steel  
 Exterior: Primer paint

**PERFORMANCE LIMITATIONS**

Maximum Design Temperature: 650°F  
 Maximum Design Pressure: 125 PSIG\*  
 \*200 & 250 PSIG available



NA-STYLE  
 PLAIN STEEL  
 COMPRESSION TANK

Visually inspect tank for damage, which may occur during transit.

Install sight-glass trim as required by design engineer.

Set tank in place and pipe system connection to system. Be sure to include isolation valve(s) and drain.

Allow system water to enter and compress tank air cushion. Approximately 1/2 of the tank volume will be displaced with system water to reach 15 psig.

Use the following reference to ensure proper water level:

<u>System fill pressure</u>	<u>Water Vol. (%)</u>	<u>Air Vol. (%)</u>
12	45	55
15	50	50
20	58	42
25	63	37
30	67	33
35	70	30
40	73	27

It is recommended that the sight-glass water level be checked every six months to ensure proper system protection and long-life for the vessel.

If tank becomes waterlogged, isolate tank and drain off stored water. Re-introduce system water into the tank and observe water level.