Domestic Hot water Expansion Tanks

Wessels TXA series ASME Replaceable Bladder System with Smart Tank Add-On for Thermal Expansion Pressure Control

APPLICATIONS
Open-System
Potable
Water Heating
Fresh Hot Water
R/O Water

Wessels patented TXA tanks are ASME replaceable bladder type pre-charged thermal expansion tanks for commercial and industrial potable hot water applications. They are designed to be installed between a backflow preventer and a water heater, so it can accept the expanded volume of hot water generated during heating and keep the system pressure below the relief valve setting. The water is contained in a butyl bladder. All other welted parts are stainless steel. All TXA expansion tanks can be installed vertically or horizontally.

NEXT LEVEL INTELLIGENCE

- Pressure gauge integrated
- WessView® bladder integrity monitor included
- WessGuard® proximity sensor port adaptable
- Easy-access air valve
- Tamper-resistant secure guard mount
- Designed and fabricated in accordance with ASME Boiler & Pressure vessel code
- Products comply with NSF/ANSI Standard 61
- Replaceable heavy-duty butyl bladder (other materials available)
- Standard design pressure is 150 psi (10 bar)
- Available in carbon steel, 304 or 316L stainless steel
- Factory pre-charged and field adjustable
- Never waterlogs
- Separation of water and air
- Full flow design compatible
- Higher pressure ratings available
- Wessels Company Patented Design US 8,633,825 B2
### MODEL SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>MAX WORKING PRESSURE</th>
<th>SHIP. WEIGHT (lbs)</th>
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**Note:**
- Tanks are factory pre-charged at 40 psi and field adjustable.
- California code-sight glass is available upon request.
- Both top and bottom connections (C and D) access the bladder.
- Available with mounting clips.

### TYPICAL SPECIFICATION

Furnish and install, as shown on plans, a ______________ gallon ___________" diameter X ___________" (high) pre-charged steel thermal expansion tank with heavy-duty butyl bladder. The tank shall have multiple water-side connections to promote full-flow to eliminate stagnate water within the tank, a 0.302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements, a pressure gauge, and WessView® bladder integrity monitor. The tank must contain a port for WessGuard® proximity sensor monitor. The tank must be constructed in accordance with most recent addendum of Section VIII Division 1 of the ASME Boiler and Pressure Vessel Code, and rated for 150 psig.

Each tank shall be Wessels model number TXA-_____________ or approved equal.

### UPGRADE TO SMART WESSGUARD® TANK PROTECTION

Wessels Type TXA-WG Smart Tanks are ASME removable bladder type pre-charged, thermal expansion tanks, with patented WessGuard® bladder monitor. They are designed to absorb the expansion forces and control the pressure in heating/cooling systems and come equipped with a uniquely designed capacitive sensor that is sensitive to any movement inside the tank.

The system’s expanded water (fully compatible with water/glycol mixtures) is contained in a heavy-duty bladder preventing tank corrosion and waterlogging problems. If the bladder extends beyond the normal movement, WessGuard® monitor will activate an audible LED alarm and energy management system to notify maintenance staff of a potential system issue.