

SINCE 1908  
**wessels**  
company

## SUBMITTAL

**TYPE:** TTA ASME THERMAL EXPANSION  
TANKS FOR WATER HEATER SYSTEMS

**MODELS:** TTA-5 TO TTA-210

Submittal Sheet No. A-3555-B

Date: 1-05

JOB \_\_\_\_\_

Wessels Co. Representative \_\_\_\_\_

Unit Tag No. \_\_\_\_\_

Order No. \_\_\_\_\_ Date \_\_\_\_\_

Engineer \_\_\_\_\_

Submitted By \_\_\_\_\_ Date \_\_\_\_\_

Contractor \_\_\_\_\_

Approved By \_\_\_\_\_ Date \_\_\_\_\_

### DESCRIPTION

Wessels Type TTA Tanks are ASME fixed diaphragm type pre-charged thermal expansion tanks. They are designed to absorb the expansion forces and control the pressure in domestic water heating systems. The system's expanded water is contained in a heavy-duty bladder preventing tank corrosion and waterlogging problems. TTA expansion tanks reduce tank sizes up to 80%.

### CONSTRUCTION

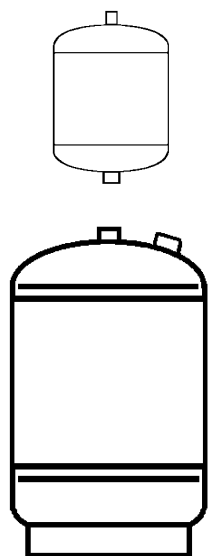
Shell: Carbon Steel

Diaphragm: Heavy duty butyl – Made from  
FDA approved & NSF Listed  
Materials

### PERFORMANCE LIMITATIONS

Maximum Design Temperature: 240°F

Maximum Design Pressure: 150 PSIG



Model	Gal.	Accept.	Dia.	Ht.	Syst. Conn.	Wt. (Lbs.)
TTA-5	3.5	2.1	10	14	3/4	22
TTA-12	5.0	3.1	12	14	3/4	28

TTA-20	8.0	3.1	12	20	3/4	34
TTA-30	15.0	10.0	16	23	1	64
TTA-42	22.0	14.7	16	32	1	88
TTA-60	26.0	15.5	16	34	1	93
TTA-80	35.0	15.5	16	45	1	109
TTA-100	45.0	21.0	20	38	1	148
TTA-125	60.0	21.0	20	49	1	175
TTA-160	70.0	46.7	24	46	1 1/2	259
TTA-180	80.0	52.5	24	49	1 1/2	268
TTA-210	90.0	52.5	24	52	1 1/2	283

### TYPICAL SPECIFICATION

Furnish and install as shown on plans a \_\_\_\_\_ gallon \_\_\_\_\_" diameter X \_\_\_\_\_" (high) pre-charged steel expansion tank with heavy-duty butyl rubber diaphragm. The tank shall have NPT system connections and a .302"-32 charging valve connection (standard tire valve) to facilitate the on-site charging of the tank to meet system requirements. The tank must be constructed in accordance with most recent addition of Section VIII of the ASME Boiler and Pressure Vessel Code.

Each tank shall be Wessels' model number TTA \_\_\_\_\_ or approved equal.