

Job Name: \_\_\_\_\_

Job No.: \_\_\_\_\_

JWC Representative: \_\_\_\_\_

Tag No.: \_\_\_\_\_

Submitted By: \_\_\_\_\_

Date: \_\_\_\_\_

Engineer: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

Contractor: \_\_\_\_\_

Order No.: \_\_\_\_\_

Date: \_\_\_\_\_

## JWTA Series

# ASME Bladder Type Thermal Expansion Tanks With Top Connection / Type IV For Potable Hot Water Systems



### APPLICATION

- Thermal expansion can cause pressure build-up in domestic water systems.
- JWTA Series tanks are designed to absorb the increased volume of water created by thermal expansion and return it to the system when hot water is demanded.
- JWTA Series tanks protect the system from pressure build-up by keeping the maximum pressure below the relief valve setting.

### DESIGN PRESSURE AND TEMPERATURE

- Maximum design pressure:  
JWTA-20-601 to 607: 150 PSI (1035 kPa)  
JWTA-20-608 to 610, 668: 125 PSI (862 kPa)
- 175, 200, 250, 300 PSI available upon request
- Maximum design temperature: 240° F (115° C)

### TYPICAL DESIGN SPECIFICATION

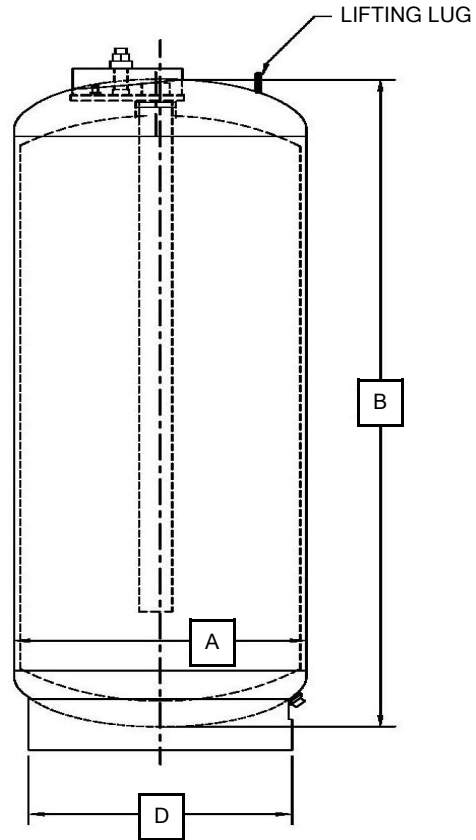
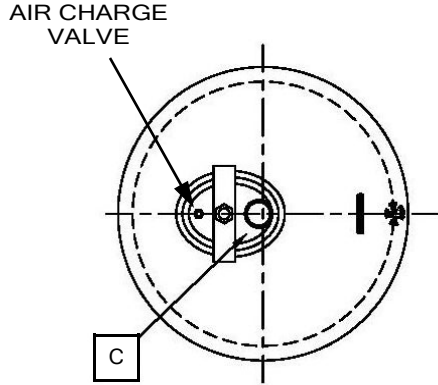
Furnish and install as shown on plans John Wood Model No. JWTA-20-\_\_\_\_\_ ( \_\_\_\_\_ gallon / \_\_\_\_\_ liter) ASME pre-charged vertical / horizontal steel thermal expansion tank with replaceable heavy duty butyl rubber bladder. The tank shall have a top mounted \_\_\_\_\_" NPT system connection and a charging valve connection (Schrader valve) with full guard to facilitate on-site charging of the tank to meet system requirements. The tank shall be fitted with a lifting lug and a base designed for vertical installation or saddles for horizontal installation. The tank must be designed and constructed in accordance with the ASME Boiler and Pressure Vessel Code Section VIII, Division 1, with a stamped MAWP of \_\_\_\_\_ PSI ( \_\_\_\_\_ kPa) and a maximum design temperature of 240°F (115°C).

### SPECIFICATIONS

- Designed and built in accordance with the ASME BPV Code Section VIII, Division 1
- Installation: vertical or horizontal
- Shell: Carbon Steel with exterior gray primer finish
- System connection: top mounted MNPT connection with 316 Stainless Steel wetted parts
- Replaceable bladder: high quality butyl bladder, NSF/ANSI Standard 61 bladders are available upon request
- Full acceptance bladder
- Maximum acceptance volume is approximately 90% of the tank capacity
- Air charge valve: ¼" Schrader charging valve
- Maximum precharge pressure: 100 PSI
- Standard factory precharge: 12 PSI



# JWTA Series / Type IV



**OPTIONS**

- California Code Sight Glass
- Seismic Design

| MODEL NUMBER | CODE SYMBOL | MAWP | TANK VOLUME |     | A DIAMETER |     | B OVERHEADS |      | C SYS CONN | D BASE DIAMETER |     | TANK WEIGHT |     |
|--------------|-------------|------|-------------|-----|------------|-----|-------------|------|------------|-----------------|-----|-------------|-----|
|              |             |      | GAL         | L   | IN         | MM  | IN          | MM   |            | INCH (MNPT)     | IN  | MM          | LBS |
| *JWTA-20-601 | UM          | 150  | 10          | 40  | 12         | 305 | 23          | 584  | 1          | 8%              | 219 | 50          | 23  |
| *JWTA-20-602 | UM          | 150  | 15          | 60  | 12         | 305 | 33½         | 851  | 1          | 8%              | 219 | 65          | 30  |
| *JWTA-20-603 | UM          | 150  | 24          | 90  | 12         | 305 | 52          | 1321 | 1          | 8%              | 219 | 90          | 41  |
| *JWTA-20-604 | UM          | 150  | 30          | 110 | 14         | 356 | 48          | 1219 | 1          | 8%              | 219 | 90          | 41  |
| *JWTA-20-605 | UM          | 150  | 35          | 130 | 14         | 356 | 55½         | 1410 | 1          | 8%              | 219 | 100         | 45  |
| *JWTA-20-606 | U           | 150  | 40          | 150 | 14         | 356 | 62¼         | 1581 | 1          | 8%              | 219 | 115         | 52  |
| *JWTA-20-607 | U           | 150  | 60          | 230 | 16         | 406 | 72%         | 1838 | 1½         | 11½             | 292 | 155         | 70  |
| *JWTA-20-608 | U           | 125  | 80          | 300 | 20         | 508 | 63¼         | 1607 | 1½         | 18              | 457 | 175         | 79  |
| *JWTA-20-668 | U           | 125  | 105         | 400 | 24         | 610 | 56          | 1422 | 1½         | 18              | 457 | 225         | 102 |
| *JWTA-20-609 | U           | 125  | 120         | 450 | 24         | 610 | 66          | 1676 | 1½         | 18              | 457 | 260         | 118 |
| *JWTA-20-610 | U           | 125  | 135         | 500 | 24         | 610 | 72          | 1829 | 1½         | 18              | 457 | 275         | 125 |

Dimensions are approximate and subject to change  
 Dimensions should not be used for pre-piping  
 Weights are approximate  
 \*Stock model

