

## FACTORY JACKETED AND INSULATED STORAGE TANKS

Large volume tanks are designed for storing potable water. Fitting locations of these custom-line tanks match the needs of normal installations plus those for the State Cer-Temp® 80 and Shure-Temp™ systems.

### FEATURES

#### STANDARD SIZES

- From 140 to 2,500 gallons - State stocks vertical factory jacketed and insulated tanks from 140 gallons up to 2,500 gallons for fast delivery and retrofit applications. All stock tanks are glasslined with standard tank openings as shown on following pages. For custom or larger capacities, see our custom line tanks or consult your factory representatives.

#### ASME CODE CONSTRUCTION

- All tanks are constructed to the requirements of the ASME. Please see table footnotes for working pressure.

#### INSULATION

- The unfired hot water storage tanks are insulated to meet ASHRAE 90.1. To meet ASHRAE 90.1 (current edition) depth of insulation cavity requires use of remote bulbtype tank temperature control and thermometer. Storage tanks meet R12.5 minimum thermal insulation requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1

#### CABINET

- Heavy gauge steel with high quality paint.

#### LININGS

- Glasslined (Standard) - These are normally stocked tanks for water storage up to 180°F, with glass lining to prevent corrosion and addition of rust to water. The glass lining was developed over many years of ceramic research for a wide variety of conditions.

### CATHODIC PROTECTION

- Tanks are furnished with anodes designed for maximum protection.

### ACCESSORIES

- Tanks will be supplied with the fittings located as indicated on the drawings unless specified otherwise.

Attention: Significant changes have been made to models now manufactured in Lebanon, TN. Please note that this Spec Sheet refers to models manufactured in McBee, SC and Lebanon, TN.



Low Lead Content



HLW



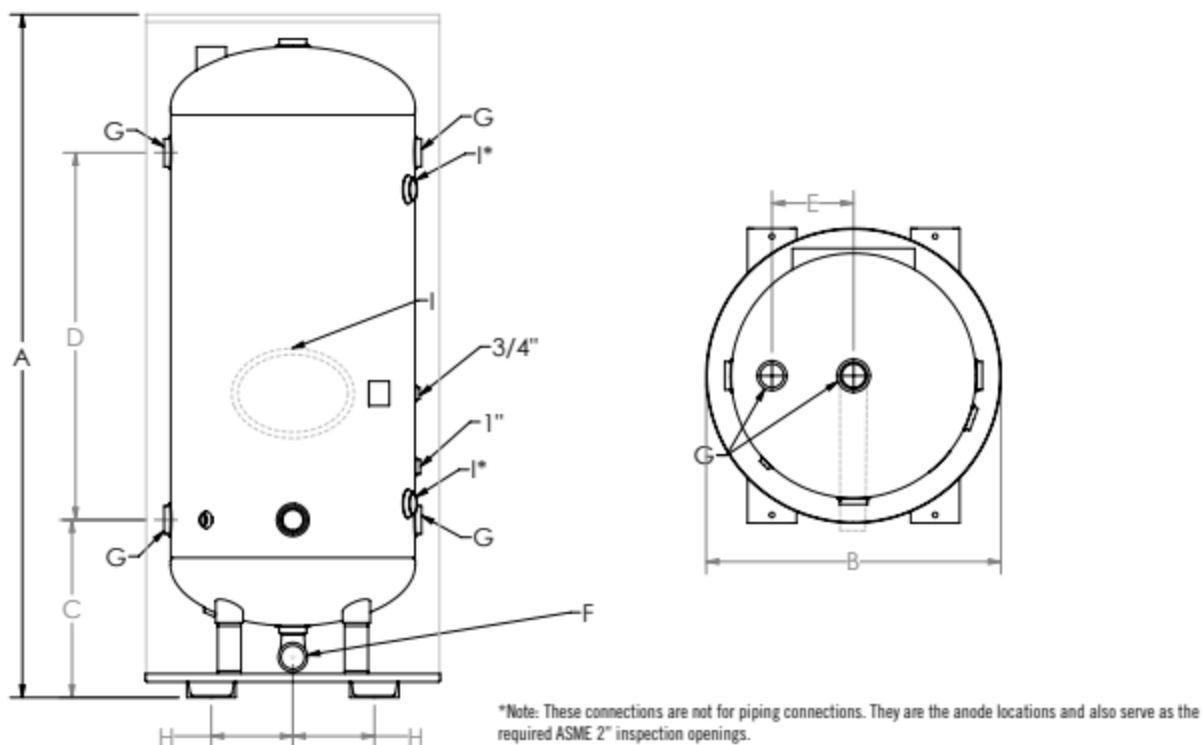
OPTIONAL

CRN

# SOLID. STATE.

### STORAGE TANK SELECTION

PVG-140 THRU PVG-400 FIGURE 1.



**NOTE:**

- Other tanks to 72" diameter and 3500 gallon are available on special order.
- All openings Female Pipe Thread except as noted.
- "F" opening Male Pipe Thread.

| Model Number      | Nominal Capacity | A   | B  | C      | D  | E  | F     | G     | H     | "I" ASME Inspection Openings |
|-------------------|------------------|-----|----|--------|----|----|-------|-------|-------|------------------------------|
| PVG-0140-00VTA125 | 140              | 87  | 30 | 21 1/2 | 51 | 8  | 1 1/2 | 2 1/2 | 6 3/8 | 2"                           |
| PVG-0200-00VTA125 | 200              | 83  | 36 | 22     | 45 | 10 | 1 1/2 | 2 1/2 | 7 3/4 | 2"                           |
| PVG-0250-00VTA125 | 250              | 96  | 36 | 22     | 58 | 10 | 1 1/2 | 2 1/2 | 7 3/4 | 2"                           |
| PVG-0350-00VTA125 | 350              | 97  | 42 | 24 1/2 | 54 | 14 | 1 1/2 | 2 1/2 | 9 1/2 | 2"                           |
| PVG-0400-00VTA125 | 400              | 105 | 42 | 24 1/2 | 61 | 14 | 1 1/2 | 2 1/2 | 9 1/2 | 2"                           |

Working pressure for all models less than 500 gallons is 160 PSI

### DIMENSION AND SHIPPING WEIGHTS

#### VERTICAL ROUND JACKETED ASME

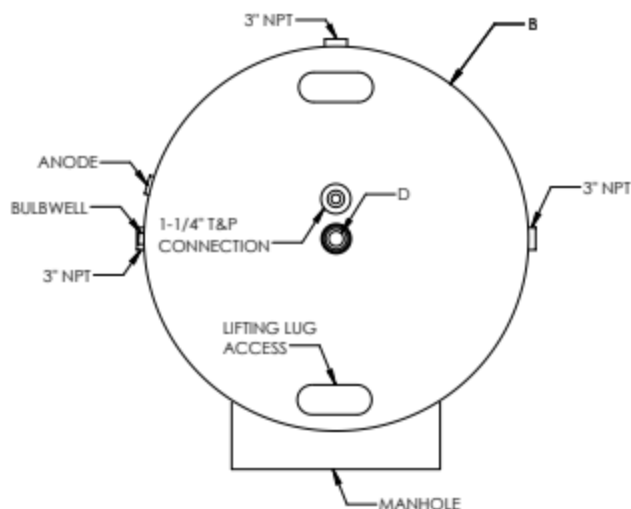
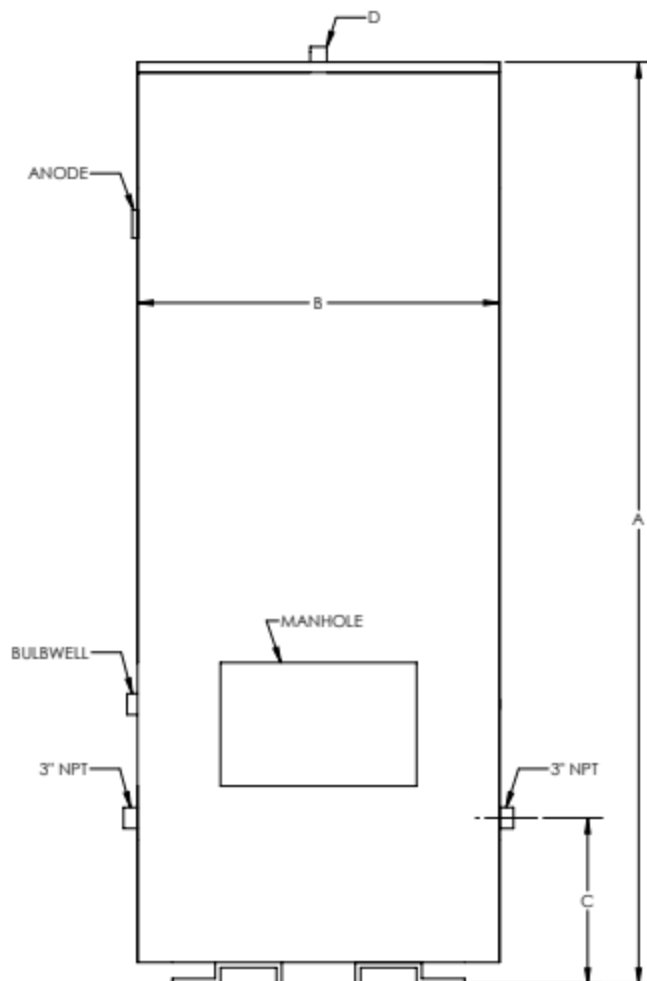
| Model Number      | A   | B  | C      | D  | Nominal Capacity |
|-------------------|-----|----|--------|----|------------------|
| PVG-500-00VSA125  | 91  | 46 | 20.75  | 2" | 500              |
| PVG-600-00VTA125  | 92  | 52 | 22.875 | 2" | 600              |
| PVG-700-00VTA125  | 101 | 52 | 22.875 | 2" | 700              |
| PVG-750-00VTA125  | 104 | 52 | 22.875 | 2" | 750              |
| PVG-1000-00VTA125 | 128 | 52 | 22.875 | 2" | 1000             |

Working Pressure 125 PSI standard, 150 PSI optional

#### VERTICAL SQUARE JACKETED ASME

| Model Number      | A   | B  | C      | D  | Nominal Capacity |
|-------------------|-----|----|--------|----|------------------|
| PVG-1250-00VTA125 | 133 | 60 | 24.375 | 3" | 1,250            |
| PVG-1500-00VTA125 | 129 | 66 | 25.875 | 3" | 1,500            |
| PVG-2000-00VTA125 | 126 | 78 | 28.375 | 3" | 2,000            |

Working Pressure 125 PSI standard, 150 PSI optional



### CAUTION

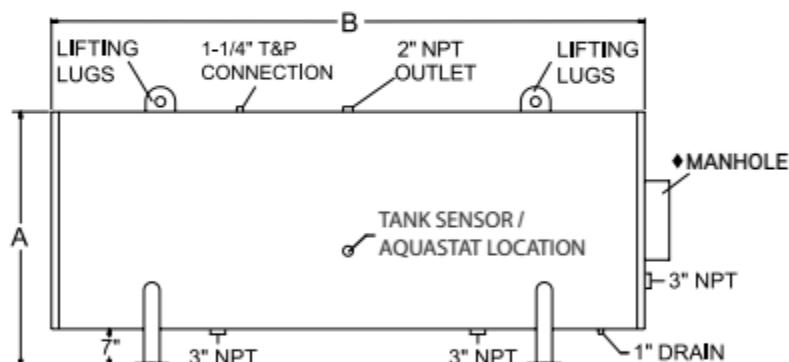
All openings are shipped open and unused. Openings must be plugged or capped at time of installation except as noted.

### DIMENSIONS AND SPECIFICATIONS FOR HORIZONTAL TANKS

#### HORIZONTAL ROUND JACKETED ASME TANKS

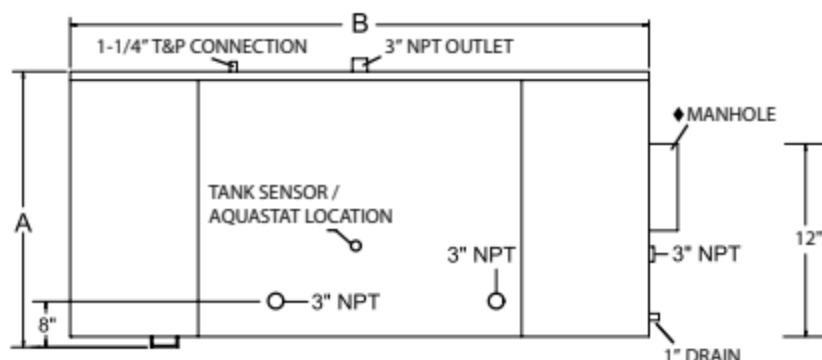
| Model Number      | A  | B   | Diameter | Nominal Capacity |
|-------------------|----|-----|----------|------------------|
| PVG-0250-00HTA125 | 41 | 87  | 34       | 250              |
| PVG-0300-00HTA125 | 47 | 76  | 40       | 300              |
| PVG-0400-00HTA125 | 53 | 76  | 46       | 400              |
| PVG-0500-00HTA125 | 53 | 87  | 46       | 500              |
| PVG-0600-00HTA125 | 59 | 88  | 52       | 600              |
| PVG-0700-00HTA125 | 59 | 97  | 52       | 700              |
| PVG-0750-00HTA125 | 59 | 100 | 52       | 750              |
| PVG-1000-00HTA125 | 59 | 124 | 52       | 1000             |

Working Pressure 125 PSI standard, 150 PSI optional



#### HORIZONTAL SQUARE JACKETED ASME TANKS

| Model Number      | A    | B   | Depth | Nominal Capacity |
|-------------------|------|-----|-------|------------------|
| PVG-1250-00HTA125 | 68.5 | 134 | 60.25 | 1,250            |
| PVG-1500-00HTA125 | 74.5 | 127 | 66.25 | 1,500            |
| PVG-2000-00HTA125 | 86.5 | 127 | 78.25 | 2,000            |
| PVG-2500-00HTA125 | 86.5 | 144 | 78.25 | 2,500            |



### LIMITED WARRANTY OUTLINES

GLASSLINED: If the tank should leak anytime during the first five years, under the terms of the warranty, State will repair or replace the tank; installation, labor and handling extra.

NOTE: THIS OUTLINE IS NOT A WARRANTY. For complete information, consult the written warranty or State. Warranty does not apply to product installed outside of the United States of America or its territorial possessions and Canada.

### SAMPLE SPECIFICATION FOR CUSTOM-LINE STORAGE TANKS

When jacketed or insulated these models meet R12.5 minimum thermal insulation requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1 ASME storage tank to be State Custom-Line model \_\_\_\_\_. Capacity to be \_\_\_\_\_ gallons with a diameter of \_\_\_\_\_ inches. Tank(s) shall be constructed and stamped according to ASME specification for \_\_\_\_\_ psi working pressure. Manhole (12 X 16), handhole (4x6) or inspection openings (2-2") shall be installed in accordance with ASME code requirements and manufacturer(s) standard practice. Tank to be constructed of (carbon steel) \_\_\_\_\_. Lining shall be (glass) \_\_\_\_\_. Tank(s) lined with (glass) \_\_\_\_\_ lining shall be equipped with the number and size of magnesium anode rod(s) sufficient to provide adequate protection for the tank lining. Tank shall be (vertical, horizontal) \_\_\_\_\_ design and provided with \_\_\_\_\_ ring base, (or \_\_\_\_\_ Saddles.)