



## ATMOSPHERIC GAUGE TANK

The non-pressurized gauge tank is used to measure low flow rates or calibrate the separator oil measurement meters. It has two compartments, one of which can be emptied by the transfer pump while the other compartment is being filled. Sight glasses with a scale permit calculation of the change in volume based on the physical dimensions of the gauge tank.

Safety features include flame arrestors on both vents of the gauge tank and a thief hatch (safety seams) in case the vessel is accidentally over pressured.

A grounding strap is attached to each gauge tank to prevent the build-up of static charges.

The gauge tank is never used when H<sub>2</sub>S gas is present in the effluent because gas released from the gauge tank is vented to the atmosphere and may endanger personnel.

The gauge tank is available in 50 Bbl, 100 bbl and 200 bbl designs, although the 100 bbl version is the most common.



## Specifications

|                                |                     |
|--------------------------------|---------------------|
| <b>Maximum Allowable W.P.:</b> | Atmospheric, 14 psi |
| <b>Test pressure:</b>          | Atmosphere          |
| <b>Design Temperature:</b>     | -50 to 250°F        |
| <b>Service:</b>                | Standard            |
| <b>Vessel Dimension:</b>       | 8' x 14.5 x 8 feet  |

|                  |                                   |
|------------------|-----------------------------------|
| <b>Capacity:</b> | 100 bbls, 2 x 50 bbl compartments |
|------------------|-----------------------------------|

### MATERIALS

|                               |  |
|-------------------------------|--|
| <b>Tank:</b>                  | BS1501-430A  |
| <b>Flanges:</b>               | ASTM A350 LF2                                      |
| <b>Nozzle necks:</b>          | ASTM A333 GR 6                                     |
| <b>Piping:</b>                | ASTM A333 GR 6                                     |
| <b>Skid frame:</b>            | BS4360 Gd 43 or equivalent                         |
| <b>Hardness requirements:</b> | 22 Hrc Max Average (for wet surface parts, piping) |
| <b>Impact toughness:</b>      | Charpy values at minimum design temperatures.      |
| <b>Corrosion allowance:</b>   | Minimum 0.0625"                                    |

### MISCELLANEOUS

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| <b>Temperature Indicator points,</b> | 3/4" NPT female x 2" 150# RF flange |
| <b>Fluid sampling points,</b>        | 3/4" NPT female x 2" 150# RF flange |

### NOZZLES/FLANGES & FLOWLINE

|                      |                                    |
|----------------------|------------------------------------|
| <b>Vent Outlet:</b>  | 6" 150# RF flange, 6" Sch 40 line, |
| <b>Fluid Inlet:</b>  | 2" 150# RF flange, 2" Sch 40 line, |
| <b>Fluid Outlet:</b> | 3" 150# RF flange, 3" Sch 40 line, |
| <b>Drain:</b>        | 3" 150# RF flange, 3" Sch 40 line, |
| <b>Bypass line:</b>  | 2" Sch 40 line,                    |
| <b>Steam line:</b>   | 2" 150# RF flange, 2" Sch 40 line  |
| <b>Manway:</b>       | 18" Each Compartment               |

### SAFETY DEVICES

Flame arrestors: 6.0", On each tank compartment  
 Grounding system, Safety seam, Thief Hatch  
 Two Sight glasses, overlapping for each compartment, 2" 150# RF flange x 3/4" NPT female.

### VALVES

|                     |                                   |
|---------------------|-----------------------------------|
| <b>Fluid Inlet:</b> | 2" 600# RF flange BalonBall Valve |
| <b>Oil Outlet</b>   | 3" 150# RF flange Butterfly Valve |
| <b>Bypass line:</b> | 2" 600# RF flange BalonBall Valve |
| <b>Drain line:</b>  | 2" 150# RF flange Butterfly Valve |

### CONNECTIONS

|                      |  |
|----------------------|--|
| <b>Fluid Inlet:</b>  | 2" # 150 RF flange x 2" Fig 602 female |
| <b>Fluid Outlet:</b> | 3" # 150 RF flange x 3" Fig 206        |
| <b>Drain line:</b>   | 3" # 150 RF flange x 3" Fig 206 male   |

### DIMENSIONS

|                      |                               |
|----------------------|-------------------------------|
| <b>Gross Weight:</b> | 6804 kg (Skid & Empty Vessel) |
| <b>Net Weight:</b>   | 5942kg.                       |