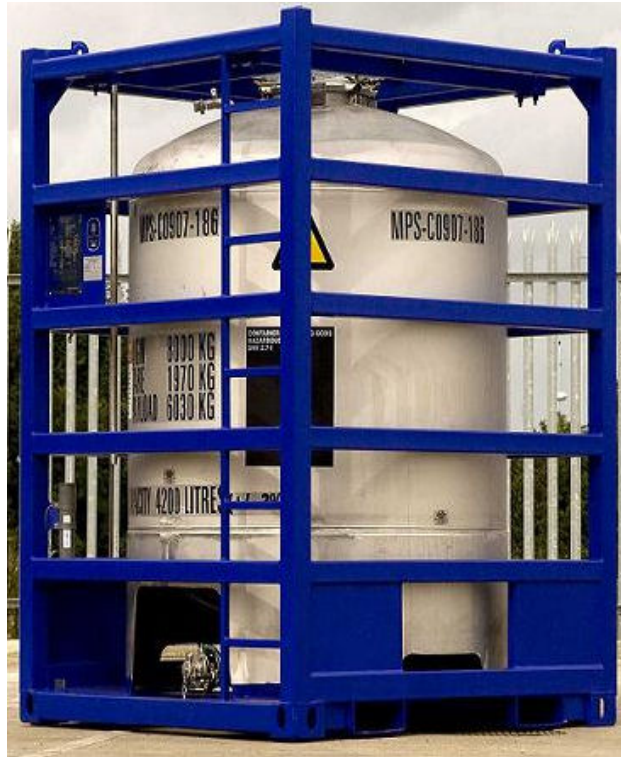


Offshore Vertical Chemical Tank (1050 GAL, 4000Ltr, and 25 bbl)



Tank Type: IMDG Type T11, DNV 2.7-1, EN12079 vertical chemical tank in rectangular frame

Frame Dimensions: 1995mm x 1995mm x 2571mm high

Capacity: 1,050 USG +/- 2 %

M.G.W.: 8,000 kg

Tare: 2,010 kg

Max Payload: 5,990 kg

Working Pressure: 4 Bar

Test Pressure: 6 Bar

External Pressure: 0.21 Bar

Design Temp: -20°C to +70°C

Vessel Material: 316/316L Stainless Steel

Shell Thickness: 4.0mm

Ends Thickness: 4.0mm min after forming

Frame Material: EN 10219 S275 J2H on primary structure,
EN 10025 S355 J2G3 on padeyes
EN 10219 S235 JR on secondary structure
ISO corner castings on bottom four corners

Frame to Shell: 304 stainless steel skirt
Bolted Design; 8 x M16 A4 Bolts & Nylock nuts connecting skirt to frame

Padeyes: Ø26.5 mm hole for 6.5 tonne shackle (designed for 45° sling angle)

Slings: 4-leg IWRC wire rope sling certified to DNV 2.7-1 rules.

Forklift Pockets: 4-way fork pockets
4 off 300mm wide x 150mm deep channels (Internal dimensions 284 mm wide x 134 mm deep) in S275 Carbon Steel, slotted underneath, 1000mm between centres.

Vessel Design Code: ASME VIII Div 1.

Radiography: Spot on shell, Ends 1 piece

Inspection Agency: DNV

Test Requirements: As per DNV 2.7-1/EN 12079 & IMDG code:

Cargo carried: Multi cargo as per IMDG T11.

(The operator of the vessel must ensure that the commodity carried is listed under the applicable UN Portable Tank instruction and is in no way corrosive to 316/316L Stainless Steel)

Approvals: IMDG, ADR/RID, CFR49, EN 12079, TIR (provision), UN portable Tank T11, ASME U-stamp

Approval Details: Approval S-5180
Approved Drawing: ST-3100 Rev.B
Current Drawing: ST-4410 Rev.A
USDOT approval: TBC

Fittings and Accessories

1. Manlid 1 x 460mm – 6-point fastening Pennine manlid with TIR provision. Fort Vale part number: 710/1200P

2. Safety Relief Valve 1 x 2 ½" FortVale (Or Girard) Super Maxi Highflow pressure vacuum relief valve NO vent button and flame gauze, part no: 010/16312. Set pressure: 4.4 bar, Set vacuum: 0.21 bar

3. Airline valve 1 x ¾" airline welded connection with ¾" Ball-valve terminating with a ¾" male camlock coupling & aluminium cap.

4. Bottom Outlet 1 x 3" Bottom Outlet Assembly comprising of 3" Emergency Foot-valve, extension pipe, 2" Ball-valve, 2" male threaded connection, drip cap and chain. Pipe support included under bottom outlet & Hole in skirt for ring attachment.

5. Sample Valve 1 x ¾" sample valve extends from bottom outlet extension pipe, complete with drip cap and chain.

6. Dipstick Calibrated and marked in 50 US Gallon increments, housed externally in a 304 stainless steel pipe. Manufacturer's tank number to be on every dipstick

7. Dipstick Access 1 ½" tube with male NPT thread and cap.

8. Level Measurement 2" tube with female NPT threaded connection.

9. Walkway / Grating To adequately cover all exposed fittings and thereby prevent slings or chains snagging per DNV 2.7-1. Made from mild steel galvanised grating secured with A2 fittings & galvanised M-clips.

10. Top Lid Made in 2 halves from mild steel galvanised grating and designed to lie at approximately 60° in fully opened position.

11. Ladder On front right of tank outlet, for easy access to valves.

12. Internal Finish All welds as laid. Chemically cleaned and passivated.

13. Frame Ext Finish Frames shot blasted to Swedish standard SA 2 ½, roughness 40 – 75 microns. Prime with 1 coat of zinc rich epoxy (Interzinc 52) to a NDFT of 75 microns
Finish with 1 topcoat of two-component, isocyanate free, acrylic finish (Interfine 691) to a NDFT of 50 microns
Total NDFT of 125 microns
Colour: RAL 5005, Signal Blue, Gloss Finish

14. Tank Ext Finish Chemically cleaned and passivated; welds as laid.

15. Logos/Signwriting MGW, Payload, Tare, Capacity (1,000USG +/- 2 %) and Tank Serial No. to be supplied and fitted.
Suretank serial number welded on frame near bottom outlet.

16. Nameplates To code requirements - 1 x Offshore and 1 x Sling Data Plate fitted.

17. Earthing Point 1 off, Earthing Spade welded to Skirt.
Vessel earthed via frame with earthing cable (25mm², yellow/green flexible cable with 2 x lugs for M8 bolts)

18. Document Box 1 off, in 2" Stainless Tube (250mm Long), welded to frame upright on right hand side of bottom outlet end, c/w rubber cap and chain. Mounted 5° down from horizontal.

19. Gaskets Manlid – Nitrile Rubber
P/V valve – Fortyt (Fortyt is a moulded Teflon with a silicon inner core)
Airline Valve – PTFE
Bottom Outlet Foot Valve – Fortyt