

Tank Container Specification

for

Tankspan Leasing



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|--------------------|---|--------|--------------|---|---------|
| Customer Order No | : | - | Contract No | : | CN 1--- |
| Customer Serial No | : | - | Enquiry No | : | E9200 |
| Quantity | : | 30 off | G.A. Drg. No | : | - |
| Option | : | - | Works No's | : | - |

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| Tank Type | : | Swapbody, IMO 1, UN T11 |
| Overall Dimension | : | 7820mm x 2550mm x 2670mm |
| Capacity | : | 35,000 Ltr. +/- 1% |
| Maximum Gross Weight | : | 36,000 Kgs |
| Tare | : | 4,200 Kgs +/- 3% |
| Working Pressure | : | 3 Bar |
| Test Pressure | : | 6.00 Bar |
| External Vacuum Pressure | : | 0.4 Bar |
| Calculation Pressure | : | N/A |
| Design Temperature | : | 130°C |
| Vessel Material | : | 316 Stainless Steel; Carbon Content < 0.03% Cold rolled 2B finish. Shell: 4.2mm min Ends: 5mm min B/F |
| Stiffening Rings | : | 304 Stainless Steel 4 off |
| Frame Material | : | Structural Steel to BS 4360, Grade 43C. Interface between frame and vessel stainless steel |
| Frame Design | : | Top and bottom lift frame with corner castings to ISO 1161 at the top and 2.55m castings in the base. An extra set (4 No.) of 2.55m Corner Castings are fitted to the base at ISO 20ft centre with the front units at the front of the 7.82mtr. dimension to ensure that the Tank Container will fit on to Drop Frame/Goose Neck Type Trailers. |
| Corner Castings | : | See Frame Design |
| Load Transfer Areas | : | N/A |
| Straddle Lift | : | N/A |
| End Protection | : | Fabricated from 304 stainless steel tube. Removable Unit fitted to rear of tank. |
| Side Lift | : | N/A |
| Pressure Vessel Code | : | ASME VIII Div 1 |
| Radiography | : | Head Seam Full; Head/Shell Spot |
| Inspection Agency | : | Bureau Veritas |
| Test Requirements | : | - |
| Type Approval No | : | - |
| Cargo Carried | : | Multi-purpose |
| Approvals | : | ADR/RID, IMO 1 (UN T 11), TIR, UIC, CSC |



Fittings/Accessories E9200

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| 01. | Manlid | : | 1 off 500mm,6 Point,6 Bar Test Pendle Pressed Manlid Cover & Pressed neckring assembly with 8 x104mm comp ring, profiled to suit a tank radius range of 1200mm manufactured in 316 st/st with Naval Brass Swingbolts. FV 8PBPC/5510118P |
| 02. | Cleaning Manlid | : | 1 off 300mm 4pt 6Bar Test Manlid/Neckring Assembly comprising Manlid suitable for 4 Bar MAWP, new style Pressed Neckring and 4 off Stainless Steel Swingbolts with Naval Brass Handnuts. Contact parts Manufactured in 316 Stainless Steel. FV 8PB/2750118P |
| 03. | Safety Relief Valves | : | 1 off 80mm Super Maxi Highflow Relief Valve set at 63.8 PSIG (4.4bar) Parallel bore with Flange details of DIN 80 PN 6 c/w 1/4" BSP Gauge tapping. Manufactured in 316 st/st with fortyt seals. Fitted to tank top at rear of manlid, set to discharge at 4.4 bar. Provision for future fitting of bursting disc. FV 013/16300801 |
| 04. | Airline | : | 1.5"BSP MKIII Air Inlet Valve 10 Bar MAWP at 205 Deg C, manufactured in 316 st/st with PTFE main seals & TIR which operates in a shearing plane. Fitted with a Gauze Filter. Outlet is 1_" BSP and fitted with a 1_" to 2" BSP adaptor, drip cap and retaining wire. Wire gauze fitted and gauge connection plugged. Airline positioned to rear of 500mm manway and opposite 3" P/V. FV 530/0000FG Adaptor F/V 10252SS |
| 05. | Gas Return Valve | : | N/A |
| 06. | Any other specific fittings: | : | N/A |
| 07 | a: Top Outlet System | : | N/A |
| 07 | b: Sump Pot | : | N/A |
| 08. | Top Outlet Provision | : | 1 off DN 100 Tank Pad fitted to shell at rear end blanked off with bolted flange. Fitted with full face gasket. |
| 09. | Bottom Outlet | : | 1 off 80mm bore tank pad, 80mm,45 Deg Composite Bottom Outlet System Comprising 3" 45 Deg Hi-Lift Footvalve and 3" Clamped Butterfly Valve (with straight handle), with 3" BSP outlet with Cap and Seal. Manufactured in 316 Stainless Steel with Fortyt and PTFE main seals. Drip cap fitted with chain retainer to prevent cap falling below frame. FV 888/8263681B |
| 10. | Remote Closure | : | CPV type fitted to right hand side of tank. $\frac{1}{3}$ length of tank. |
| 11. | St.St. Calibration Chart | : | Fitted adjacent to manlid; calibration in cm's and ltr's |
| 12. | Computer Calibration Chart | : | Computer print-out available. |
| 13. | Dipstick | : | Dipstick holder fitted only. |

Fittings/Accessories E9200

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| 14. | Steam Heating | : | 8 runs of 100mm wide 304 stainless steel channels welded to base of tank. Inlet/Outlet pipe screwed and capped 1" BSP stainless steel cap & chain. Pipework configured for future fitting of glycol system including vertical pipe for air release. Steam heated bottom outlet pad integrated into steam manifold at rear of tank. |
| | | | <u>Effective Heating Area.:</u> 9m ² <u>Working Pressure:</u> 3 Bar |
| 15. | Gasket Material | : | Manlids : Braided PTFE 14mm x 14mm x 1.75m (500mm) Braided PTFE 14mm x 14mm x 1.0m (300mm) |
| | | | Outlet Valves: PTFE envelope Dripcap on steam tubes: PTFE |
| 16. | Electrical Heating | : | N/A |
| 17. | Insulation | : | 80mm 24kg/m ³ compressed to 50mm maximum thickness of aluminium foil backed rockwool reduced at sides to approx. 30mm. |
| 18. | Cladding | : | Shell: 2mm White GRP Ends: GRP White |
| 19. | Analog Thermometer | : | Surface sensing bulb clamped to rear dish above bottom outlet. Scale 0-200°C Dual Scale °C and °F. |
| 20. | Digital Thermometer | : | N/A |
| 21. | Walkway | : | One off 460mm minimum wide non-slip aluminium open grid panel full length on both sides of tank; hand grip in walkway at ladder end of panel for easy access. Cross walkways at each spill enclosure. _ length St. St. Collapsible Handrail fitted on right hand side. |
| 22. | Ladder | : | Aluminium, fitted at rear right hand side. |
| 23. | Spill Enclosure without lid | : | <u>500mm Manway</u> To enclose manlid, PV valve and Airline, fabricated from stainless steel; <u>300mm Manway</u> To enclose 300mm manlid – and top discharge provision. |
| 24. | Drainage Pipes | : | Stainless steel pipes from Spill Enclosure terminating at base of tank running below insulation/cladding. |
| 25a | Rear Compartment | : | Exposed shell area coated with GRP as insulator. 2mm thick stainless steel enclosure inserted into rear GRP dish and welded directly to rear stainless steel dis to protect bottom outlet. Additional protection provided by rear end bumper with stainless steel tubes either side of base of enclosure. |
| 25b | Side Compartment | : | N/A |
| 26. | Side Protection | : | N/A |
| 27. | Top/bottom Frames | : | N/A |
| 28. | Baffles | : | N/A |
| 29. | Compartment Tanks | : | N/A |

Fittings/Accessories E9200



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| 30. Internal Finish | : | Longitudinal welds rolled flat; circumferential welds ground and polished; surface chemically treated and passivated; polished areas to 120 grit. |
| 31. External Finish | : | Shotblast : Carbon steel to S.A. 2.5 Primer : Hempels 4641Acrylic RAL 7035 Paint :Hempels 4641Acrylic Solvent based Total dft 125µ |
| 32. Colour Requirements | : | Frame : Please advise |
| 33. Logos/Signwriting | : | Mandatory markings only supplied by CPV Fit Customer free issue Logos |
| 34. Document Box | : | 50mm PVC. |
| 35. Special documentation requirements | : | N/A |
| 36. Name Plates | : | Standard |
| 37. Earthing Point | : | 1 off Stainless Steel |
| 38. Free Issue Items | : | N/A |
| 39. Any 'extras' not already covered | : | N/A |

Date : 12/07/02