



Gem Containers Limited (GEM)

Standard T11 Tank Container Specification

	25,000 Litre	26,000 Litre
Design and Approvals	ASME VIII, IMDG, 49CFR, RID/ADR, ISO Standard 1496/3, UIC, CSC, TC, TIR	
Frame and Vessel		
Frame Dimensions	20' x 8' x 8'6"	20' x 8' x 8'6"
Stainless Cold Rolled Steel	316L 2B finish	316L 2B finish
Minimum Calculated Thickness	4.18 mm	4.18 mm
Corrosion Allowance	0.22 mm	0.20 mm
Mass and Volume		
Maximum Permissible Gross Mass	36,000 kg	36,000 kg
Tare Weight	3,645 kg	3,770 kg
Maximum Payload	32,355 kg	32,230 kg
Pressure		
Maximum Allowable Working Pressure	4.00 bar	
Test Pressure Rating	6.00 bar	
Maximum Allowable Vacuum	0.41 bar (external pressure)	
Temperature		
Temperature Range / Heating Area	-40 °C to +130 °C / 10m ²	
Maximum Working Coil Pressure	4.00 bar	
Insulation / Cladding	Compressed Wool & Polyurethane / GRP	
Components		
Manway Assembly	1 x 500 mm – 8-point fastening manlid, low profile with TIR Provision, no dipstick guide fitted	
Relief Valve / Set Pressure / Gasket	1 x 2 ½ BSP Pressure Relief Valve / 4.40 bar / PTFE	
Airline Connection / Gasket	1 x 1.5" BSP ball valve / PTFE	
Top Discharge Provision / Gasket	DN80 weld in pad with bolted blank flange / PTFE	
Bottom Outlet Assembly / Gasket	45° 3" foot valve and 3" clamped butterfly valve terminating with 3" BSP spigot and blank cap / PTFE	
Centre Spill Box Contains	Manway and PR Valve	
Rear Spill Box Contains	Airline Valve and top discharge provision	
Spill Box Drainage	Pipes fitted each side of each top box	
Outlet Housing	Outlet valve contained in protective housing	
Walkways		
Walkway Type / Width / Material	'F' Type / 475 mm wide / Aluminium	
Walkway Layout	1 full length with two traverse sections	
Steam Heating		
Steam Coils	8 longitudinal	
Total Effective Heating Area	10.00m ²	
Working Pressure / Testing Pressure	4.00 bar / 6.00 bar	
Inlet and Outlet Connections	¾ BSP	
Insulation		
Material / Density / Cladding	Mineral Wool / 55 kg/M ³ / GRP	
Material between Insulation and Shell	Aluminium Foil	
Internal Finish		
Ground flush	400 mm	
Polished	Maximum 1.2 micron CLA on bottom centre line	
Polishing	If required, not exceeding 0.5% of internal surface	
External Finish		
Carbon steel parts shot blasted	SA2 ½	
Painting – first coat	Hempadur Zinc (15360) – 30 micron min DFT	
Painting – second coat	Hempatex Primer (15300) – 40 micron min DFT	
Painting – third coat	Hempatex Hibuild (56430) – 50 micron min DFT	
TOTAL micron	120 micron min DFT	
Stacking		
Maximum	9 units high	
Fittings		
Thermometer / Range / Location	Analogue Dual Scale / -40 °C to +160 °C and °F / Rear end, lower left side	
Ladder Material / Rungs / Location	Aluminium / Anti-slip / Rear end, right side	
Earthing Plate Location	Bottom frame, rear end	
Data Plate Type	SS Consolidated	
Document Holder	Tubular, PVC	
Calibration Plate / Markings	Stainless Steel / cm/litres	

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