

6340 Gallon (24,000 Liter) ISO
SPECIFICATIONS
STANDARD (US) MEASUREMENTS & WEIGHTS



Actual measurements & weights may vary due to differing product densities and other factors.

Hoover CS ISO Tanks are an ideal solution for the storage and transportation of hazardous & non-hazardous liquid chemicals within North America.

ITEM	DESCRIPTION
1.0 DESIGN SPECIFICATION	
Tank Type	20-foot ISO UN CIMC BURG Frame Tank
Capacity	6340 gallon / 24,000 liters 0 +1.5%
Tare	8201 lbs. / 3,720 kg nominal
Max Gross	79366 lbs. / 36,000 kg
Products	General purpose liquids
MAWP	4 bar
Test Pressure	6 bar
External Pressure	0.41 bar
Vessel Design Temp	-40°C to 130°C
Type Approvals	UN portable tank (T11 IMDG, CFR49, ADR/RID), UIC, TIR, CSC, TC, ADR L4BN
Classification Society	LR
2.0 VESSEL	
Design Code	ASME VIII Div 1/EN14025 where applicable
Material	Shell: SANS 50028-71.4402/1.4404, max carbon content 0.03%, Cold rolled 2B finish. Min. calculated thickness: 4.18 mm Corrosion allowance 0.42 mm Manufacture thickness 4.6 mm End: SANS 50028-71.4402/1.4404, max carbon content 0.03%, hot rolled, polished Min. calculated thickness: 4.4 mm Corrosion allowance 0.2 mm Manufacture thickness 4.6mm (after forming)
Radiography	Shell: spot (including all "T" joints); Ends: 100%
Surface Polish	Base 400 mm of circumferential seams ground flush. fillet welds on tank fitting ground smooth, not coarser than 120 grit
Internal Finish	Chemically cleaned, washed, and dried
3.0 FRAME	
Type	ISO 1496/3 (ICC) without saddles
Material	SPA-H or equivalent
Walkway	475 mm and 400 mm wide non-slip aluminum. Two longitudinal section walkways (divided into three individual pieces for maintenance purpose) at the two sides, Section between longitudinal fitted full walkways
Handrail	Provision for future fitting a collapsible handrail.

4.0 COMPONENTS	
Safety Relief Valve	<p>2.5" BSP pressure/vacuum relief valve set at 4.4/-0.21 bar Complete with flameproof gauze adaptor flange The assembly is situated off centre on a tangential tank pad To be marked with "EXSIF WW" Fort Vale part numbers: Relief valve: FV 010/16312 Tank pad: FV 175/3150 Gasket: FV 5005-398 M10 stud kit M10: FV 176/7021</p>
Manlid Gasket Dipstick Bracket	<p>500mm dia. hinged 8-point manlid To be marked with "EXSIF WW" Composite seal with PTFE outer encapsulating EPDM inner No fitted Fort Vale part numbers: Man/Neck assembly: FV E4D/8518025BT Gasket: SUPER TANKTYT SEALS FV FV5005-860EP</p>
Airline	<p>1 1/2" tank pad connect with ball valve to 1 1/2" BSP dustcap The tank pad should be horizontal mounted To be marked with "EXSIF WW" Fort Vale part numbers: Airline valve: FV 530/0000CP Tank pad: FV 350/0037 Stud kit: FV 350/1300</p>
Top Outlet Provision	<p>3" NB tank pad top outlet should also be dual drilled to 6 x M12 on a 168.3 pcd and 4 x M16 on a 160 pcd complete with a 4-holes blank flange To be marked with "EXSIF WW" Fort Vale part numbers: Blind flange: FV360/8096 Tank pad: FV 312/0065 Gasket: FV 5005-785 Bolt kit: FV311/3710</p>
Spare Connection	<p>3" low profile tank pad top outlet should also be dual drilled to 6 x M12 on a 168 pcd and 4 x M16 on a 160 pcd complete with blank flange The tank pad should be horizon mounted To be marked with "EXSIF WW" Fort Vale part numbers: Blind flange: FV 360/8096 Tank pad: FV S0609 Gasket: PTFE FV5005-785 Bolt kit: FV 311/3710</p>
Bottom Outlet	<p>3" NB 45°highlift Univalve footvalve to 3" BSP stainless steel dustcap Footvalve complete with CIMC remote closure system and fusible link To be marked with "EXSIF WW" Fort Vale part numbers: Foot valve: FV 804/4000A Tank pad: FV 324/9000 Gasket: PTFE FV 5005-015 Bolt kit: FV 324/2080 Fusible Link: FV324/5771 Remote operating lever: FV 324/7610</p>
Steam Heating Pressures Connections	<p>8 runs steam heating system, the tank vacuum rings not used for steam heating Longitudinal steam channels manufactured from 1.60mm thk Duplex stainless steel Actual surface of heating 4.3m² (effective heating area 9.03m²) Design pressure 4 bar. Test pressure 6 bar 1" BSP inlet, 3/4" BSP outlet. Stainless steel dustcaps fitted</p>
Spillage Areas	<p>One spillage tray around manlid and relief valve. One spillage tray around airline, top outlet pad and 3" spare connection. Each tray manufactured from 2mm thk. stainless steel complete with plastic drain tubes. Hinges are fitted for the future fitting of top spillage lids.</p>
Document Holder	<p>φ75x325 Plastic document holder fitted to rear end frame</p>
Thermometer	<p>Glycerine filled Analogue thermometer, range -40°C to +160°C To be marked with "EXSIF WW"</p>
5.0 INSULATION & CLADDING	
Insulation Barrel & Ends Under the Banding Horizontal Steam Tubes	<p>50mm THK. Rockwool where possible 500 mm wide Compressed rockwool insulation on top of tank and 140mm wide one on bottom of tank; No support channel on top and bottom of tank Compress rockwool under the stainless-steel banding 50mm THK. Rockwool where possible</p>

Cladding	Barrel: 1.8mm thick White glass reinforced plastic Ends: 2.0mm thick White glass reinforced plastic
6.0 EXTERNAL CORROSION PROTECTION	
Shotblast	SA 21/2 to framework
Carbon Steel	Primer coat: Epoxy zinc rich primer, 30 microns DFT.
Framework	Intermediate coat: Epoxy primer, 40 microns DFT Top coat: PU, 50 microns DFT Total: 120 microns DFT Color: RAL 5002 blue
Vessel	Anti-stress corrosion paint 40um applied all vessel as deemed appropriate by CIMC
Corner Castings	Primer coat: Epoxy zinc rich primer, 30 microns DFT Intermediate coat: Epoxy primer, 40 microns DFT Top coat: polyurethane, 50 microns DFT Total: 120 microns DFT Color: red
7.0 MARKING	
Data Plates	Consolidated data plate, customs plate
Statutory Decals	Supplied and fitted by manufacturer
Owner Logos	Supplied and fitted by manufacturer
Temperature Warning Decals	Supplied and fitted by manufacturer