



WELFIT ODDY TANK CONTAINER SPECIFICATION NO.:

OCI/24/G/T11/1057

IMDG T11 (IMO1) TYPE TANK CONTAINER DATE: 01/10/2001

TYPE WO GENERIC T11/24/SH 8

1. DESIGN PARAMETERS

1.1	Nominal Capacity (Tolerance +/- 0.75%)	24 000 l
1.2	Tare Mass (Tolerance +/- 3.3%)	3 550 kg
1.3	General Arrangement Drawing No.:	
1.4	Maximum Gross Mass: Rated	36 000 kg
1.5	Maximum Allowable Working Pressure	4 bar
	Tested to	6 bar
	External Pressure	0.41 bar
1.6	Design Temperature	130°C
1.7	Design Code	ASME VIII DIV.1

2. TANK VESSEL

2.1	Tank Barrel Material	316 Stainless steel DIN 17441 Type 1.4401 (C ₂ 0.03%) Minimum thickness 4.6mm Cold rolled 2B finish
2.2	Tank End Material	316 Stainless steel DIN 17441 Type 1.4401 (C ₂ 0.03%) Minimum thickness 5.2mm Cold rolled and polished to equivalent 2B finish
2.3	Vacuum/Circumferential Rings	2 off in stainless steel 304L
2.4	Radiography	As per ASME VIII UW.52
2.5	Interior Finish	Cold rolled 2B finish Longitudinal welds - as welded Circumferential welds left as is and bottom 400mm ground flush and polished to 2B finish Cleaned, degreased, pickled and passivated
2.6	Exterior Finish	Welds descaled Barrel cleaned, degreased and anti-stress corrosion lacquer applied
2.7	Steam Heating	8 Longitudinal stainless steel elements Working pressure 6 bar tested to 9 bar Outlet 3/4" BSP connection with captive plastic cap Inlet 1" BSP connection with captive plastic cap
2.8	Insulation	Polyurethane panels over compressed ceramic wool nominal thickness 45mm on barrel Ceramic wool blanket on ends

- 2.9 Cladding
2mm White GRP panels on barrel
Stainless steel straps over joints
White GRP preformed panels on ends
All joints and seams sealed
Aluminium, insulated stainless steel rivets and customs rivets
- 2.10 Calibration
30% Stainless steel captive dipstick mounted to neckring and calibrated in centimeters
Etched stainless steel calibration plate in litres and US gallons fitted adjacent to manlid

3. FRAMEWORK

- 3.1 Configuration:
Collar tank, with end frames connected to vessel by stainless steel 304L skirts
Rectangular tube lower side longitudinal beams fitted
Square tube top longitudinal beams fitted
- 3.2 Material
Carbon steel BS 4360 grades 50C and 43C or equivalent
- 3.3 Dimensions to ISO
Length: 6058mm Width: 2438mm Height: 2591mm
- 3.4 Corner Castings
To ISO 1161
- 3.5 Access Ladder
Rear right hand side and stainless steel anti slip rungs
- 3.6 Walkways
1 Longitudinal, 2 transverse, 475mm wide
Marine grade aluminium
- 3.7 Finish
Shot blasted to grade minimum 2.5 of Swedish standard stainless steel SIS 05-5900. Blast profile 30 - 40 microns
Interzinc 42 (zinc epoxy) primer minimum 50 microns thickness
Intersheen 990 (recoatable acrylic) top coat in colour of owners choice minimum thickness 50 microns.
Combined dry film thickness minimum 100 microns

4. FITTINGS

- 4.1 Manlid
500mm Stainless steel Swift, 8 copper alloy wing nuts braided PTFE gasket
- 4.2 Safety Relief Valves
1 Stainless steel Perolo 2½" pressure (4.4 bar) relief valve with flameproof gauze.
Provision for rupture disc and manometer.
- 4.3 Air Inlet
1½" Stainless steel BTR ball valve with captive blank cap with 1½" BSP terminal connection and a manometer fitted.
- 4.4 Top Discharge Provision
3" Weld in and blank stainless steel flanges
Syphon tube lower retaining bracket but no syphon tube
- 4.5 Bottom Discharge
3" 45° Stainless steel Perolo foot valve and butterfly valve
3" BSP stainless steel outlet with captive blank cap
- 4.6 Remote Control
Full-length RHS cable fitted to foot valve
Provision for fusible link
- 4.7 Thermometer
Contact type analog from -20°C to 160°C

- 4.8 Spill Boxes 2 Stainless steel boxes fitted around manlid / relief valve and around top discharge / air inlet. 25mm PVC external drainage tubes fitted.
- 4.9 Earth Connection Fitted to lower rear frame crossmember
- 4.10 Document box ø110mm, clear PVC document box fitted.

5. GENERAL

- 5.1 Manhole, air inlet, safety and discharge valves are all fitted with customs sealing devices.
- 5.2 One set of decals is applied per tank as per code requirements with corporate logo decals applied as per customer requirements.
- 5.3 One set of stainless steel data plates is applied as per code requirements.
- 5.4 All tank containers are manufactured under ISO 9001 Quality Management System.
- 5.5 Each container certified by Lloyds Register.
- 5.6 Each container is supplied with the requirements of type approval, certification and registration and, where applicable, embodying:

ISO 1496/111, ISO 668, ISO 1161, ISO 2716, ISO 3874
IM101 US DOT (Appraisal only - no certificates supplied)
UKDETR
IMDG
ASME VIII Div 1
RID / ADR
AAR 600
TC
CSC
UIC
Customs Convention

Checked By:

Customer Approval: