

## TANK SPECIFICATION

Tankspan

ES 6345a

Issue 0

15<sup>th</sup> July 2002



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### 1.0 DESIGN SPECIFICATION

TANK TYPE	:	7.15m long x 2.55m wide x 2.67m high Universal Swap Tank.
CAPACITY	:	31,000 litres – 1 + 1.5%
TARE	:	3,780kg Nominal.
MAX GROSS	:	36,000kg.
PRODUCTS	:	General Purpose Liquids.
MAWP	:	3 bar.
TEST PRESSURE	:	4.5 bar.
ADR CALC PRESSURE	:	4.5 bar.
DESIGN TEMP.	:	-20°C to 110°C.
TYPE APPROVALS	:	ADR/RID, UK DOT IMO 1, UIC, TIR, CSC.
CLASSIFICATION SOCIETY	:	Lloyds Register Industrial Division or Bureau Veritas.

### 2.0 VESSEL

DESIGN CODE	:	ASME VIII Div 1 where applicable.
MATERIAL	:	DIN 1.4401, max carbon content 0.03%. Cold rolled finish 2B.
SURFACE POLISH	:	Base 400 mm of circumferential seams ground flush. Fillet welds on tank fitting ground smooth where necessary.
INTERNAL FINISH	:	Chemically cleaned, washed and dried.

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### **3.0 FRAME**

MATERIAL	:	RHS TO EN 10219 S355 J2H
END PROTECTION	:	Each end of the vessel fitted with tubular protection frame.
LADDER	:	Fitted at rear of tank.
SIDE LIFTING	:	Provision is made for side lifting at top of tank.
CORNER CASTINGS	:	Top of frame fitted with four standard corner castings centred on the tank. Base frame fitted with four bottom corner castings centred on the tank.
WALKWAY	:	400mm wide non-slip aluminium. One full length longitudinal section, transverse sections adjacent to spillage trays where possible.

### **4.0 COMPONENTS**

4.1) SAFETY RELIEF VALVE	:	1 x 3" Fort Vale Flanged Maxi Hi-flow pressure only valve set at 3.75 bar.
4.2) MANLID	:	500mm dia Fort Vale 6 point manlid.
Gasket	:	Braided PTFE.
Dipstick	:	Dipstick fitted to manway assembly.
4.3) BOTTOM OUTLET	:	3"NB Fort Vale 45° footvalve and 3" NB Fort Vale clamped butterfly valve with 3" BSP stainless steel dustcap. Footvalve complete with UBHI remote closure system.
4.4) TOP FILL/ OUTLET	:	3" Fort Vale tank pad complete with blank flange.
4.5) AIRLINE	:	1" Fort Vale ball valve with 1" BSP dustcap.
4.6) STEAM HEATING	:	4 run 304 st/stl steam heating system in conjunction with tank stiffening rings.
Pressures	:	Design pressure 4 bar. Test pressure 6 bar.
Connections	:	1" BSP inlet, 1" BSP outlet.

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- 4.7) SPILLAGE AREAS : One spillage tray around manlid, relief valve and airline. One spillage tray around top outlet provision. Each box is manufactured from stainless steel and complete with plastic drain tubes.
- 4.9) THERMOMETER : Dual scale, glycerine filled, analogue thermometer fitted to rear dished end, range – 20°C to +160°C.

### **5.0) INSULATION AND CLADDING**

- 5.1) INSULATION  
BARREL & ENDS : 50mm Rockwool where possible.
- 5.2) CLADDING : White glass reinforced plastic over barrel and ends. Polished stainless steel banding.

### **6.0 EXTERNAL CORROSION PROTECTION**

- 6.1) SHOTBLAST : SA 2<sub>1/2</sub> to framework.
- 6.2) CARBON STEEL  
FRAMEWORK : One coat Hempel 1536 zinc rich epoxy primer to 40 microns DFT. One coat Hempatex hi-build 4641 to 80 micron DFT. Colour to advised.
- 6.3) STEAM COILS : One coat Hempels 56910 heat resistant silicone aluminium paint to 25 micron DFT.

### **7.0 MARKING**

- DATA PLATES : Consolidated data plate, customs plate, calibration decal.
- STATUTORY DECALS : Supplied and fitted by UBHI.
- OWNER LOGOS : Supplied "free issue " by customer and fitted by UBHI.