

Technical Characteristics
CAPACITY

Nominal : 24 700 litre
Tolerance : 1%A2.

UNLADEN MASS

Maximum : 9 800 kg
Tolerance : 1%A3.

MAXIMUM GROSS WEIGHT

Standard : 34 000 kgA4.

PRESSURE RATING

Design pressure (MAWP) : 22 Bar
Test pressure : 36 BarA5.

DIMENSIONS

Outside diameter vessel : 2 410 mm
Outside vessel length : 6 030 mmA6.

DESIGN

Design code : ASME VIII Div 1

M D M T : -40°C

Reference : 55°C

MOUNTING

The tank container is mounted using the unique and patented Containereering multi-directional suspension system, allowing for the isolation of movement between frame and tank.A9.

Manlid/Safety Relief Valves
MANLID ASSEMBLY

Tank fitted with : 500 NB diameter manlidB2.

SAFETY RELIEF ASSEMBLY

Relief valve : Fort Vale 004/2.

Pressure Setting : 22 Bar

Valve size : 80 mm (3")

Rupture Discs : Continental Disc in Stainless Steel

Manometer : Yes - Graduation 0 - 30 Bar

Protection cover : Yes

Discharge Systems
BOTTOM DISCHARGE

All valves are fitted below the liquid level and grouped together on the vessel side, enclosed by a bolt on TIR closure.

Valves
MATERIALS OF CONSTRUCTION

Tank shell : SA 612

Minimum thickness 19,1 mm

Tank ends : SA 612 Hot formed

Minimum thickness 17,7 mm

Framework : Grades of low carbon steel, main structural elements BS 4360 Grade 50C or 43C or equivalent

Manhole and flanges : SA 350 LF 2

Internal piping : Stainless steel 304L 50 NB, sched 40

Sunshield : Marine Grade Aluminium

Baffle supports : SA 612 (6 mm)

MODULE DIMENSIONS
To ISO

: Length 6 058 mm (nominally 20ft)

: Width 2 438 mm (8'0")

: Height 2 591 mm (8'6")

RADIOGRAPHY

Ends : 100 %

Shells : 100 %A11.

JOINT EFFICIENCY

Ends : 1.00

Shell : 1.00A12.

CORNER CASTINGS

To ISO 1161

Heat Treatment

The complete vessel will be stress relieved after manufacture.

Sunshield

A Marine Grade Aluminium sunshield (2 mm) with a 120 degree included angle at spacing 40 mm from vessel is provided.

ACCESSORIES
DOCUMENT BOX

A PVC Document Box is fitted on left lower rear of frame.

EARTH CONNECTION

One (1) stainless steel strap connecting tank to frame is fitted.

EARTH POINT

Tank frame fitted with a stainless steel earthing point on the lower rear.

VOLUME

The capacity of each container is determined and used for data plate marking.

CUSTOMS SEALING

Manhole, discharge valves and relief valves are provided with Customs sealing devices.

TEMPERATURE GAUGE

Provision to fit a temperature gauge : Yes

PRESSURE GAUGE

Oil filled 0 to 40 bar mounted to the tank through an orifice of 1 mm and " " ball valve or equivalent.

VOLUMETRIC GAUGE

Provision to fit Rochester gauge.

FINISHING / PAINTING OF VESSEL AND FRAME
INTERIOR FINISH

The interior of the vessel will be shotblasted to SA 2.5 and will be delivered in a nitrogen purged condition. Dry Nitrogen (0,2 < 1 % residual oxygen, 1 bar pressure, dew point Nitrogen -20°C) will be used for purging.

EXTERIOR FINISH

All external tank welds to be left "as welded".

The external surface of the vessel will be shotblasted to SA 2.5 before the application of the primer.

Prime coat : Hempadur Zinc 1856 - 40 micron dft

Top coat : Hempatex Hi-Build 4641 - 80 micron dft

FRAME FINISH

Shotblast : The entire framework shotblast to be carried out in warm dry weather, utilising air free of moisture to a shotblast condition equivalent to Grade SA 2,5.

Prime coat : Hempadur Zinc 1856 - 40 micron dft

GAS LINE

1. 1 x Fisher C427T-16-10 2" internal safety valve with Fisher P651 cable controls.
2. 1 x Fisher N310T-16 2" ball valve.
3. 1 x 1 3/4" flanged connector in S/S 304L.
4. All gaskets and sealing in Teflon (PTFE).
5. Loctite PTFE sealer to be used on threaded connections.
6. Remote control latches (10 m stainless cable) will be located in the valve compartment.
7. A Fisher fire safe fuse on the remote controls will be provided

LIQUID LINE

1. 1 x Fisher C427T-16-25 2" internal safety valve with Fisher P651 cable controls.
2. 1 x Fisher N310T-16 2" ball valve.
3. 1 x 3 1/4" flanged connector in S/S 304L.
4. All gaskets and sealing in Teflon (PTFE).
5. Loctite PTFE sealer to be used on all threaded connections.
6. Remote control latch (10 m stainless cable) will be located inside the valve compartment.
7. A Fisher fire safe fuse on the remote controls will be provided.

Top coat : Hempatex Hi-Build
4641 - 80 micron dft

INTERNAL PIPING

All internal piping is in stainless steel 304L 50 NB schedule 40. The internal piping will be flanged connected to the reducer in order to make it fully demountable.

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