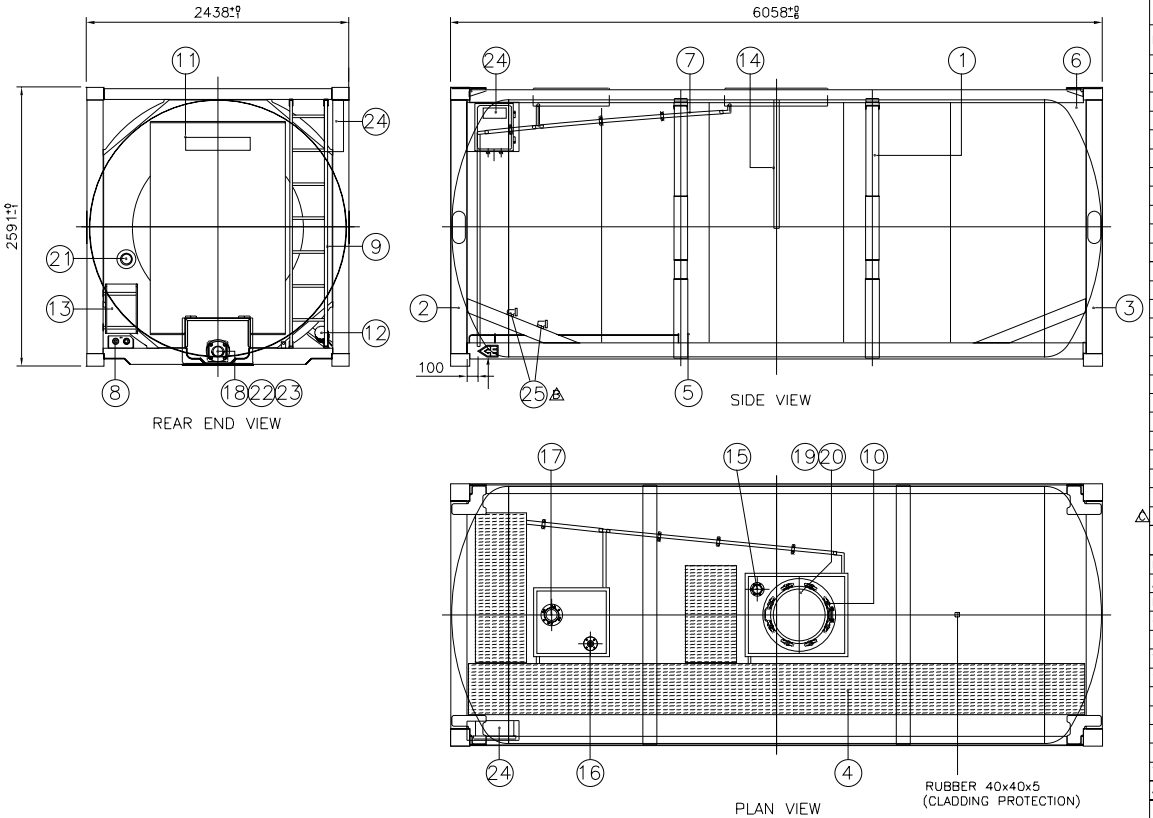
INTERNALS AND WELDING

SHELL	
INTERNAL SHELL FINISH	2B FINISH
LONGITUDINAL WELDS	AS WELDED
CIRCULAR WELDS	BOTTOM 500mm GROUND FLUSH & POLISHED
	REMAINDER POLISHED TO 180 GRIT
	(Ra=1.3µm MAX.)
DISHED ENDS	
INTERNAL SURFACE	POLISHED TO 180 GRIT (Ra=1.3µm MAX.)
WELD SEAMS	GROUND FLUSH

CLEANING

ON COMPLETION OF FABRICATION, THE VESSELS INTERNAL SURFACE IS TO BE DEGREASED, PICKLED, PASSIVATED AND NEUTRALISED. A WHITE CLOTH TEST IS TO BE PERFORMED ON THE INTERNAL SURFACE TO CHECK FOR CLEANLINESS. THE OPENING POINTS ARE TO BE SEALED SO THAT THE VESSEL IS SUPPLIED CLEAN AND READY FOR USE. A CLEANING CERTIFICATE IS TO BE PROVIDED IN THE DOCUMENT HOLDER.



MATERIAL SPECIFICATION

C	ASTM A240 316	O	P.V.C.	J	BRAIDED PTFE	Y	ST/STEEL

PARTS LIST

No.	QTY	MAT	STOCK CODE	DESCRIPTION	DIMENSIONS	REFERENCE
1	1			TANK DETAILS		8112-02-04
2	1			REAR FRAME ASSEMBLY		8112-02-10
3	1			FRONT FRAME ASSEMBLY		8112-02-09
4	1			WALKWAYS		8112-02-11
5	1			REMOTE CONTROL		8112-02-
6	1			INSULATION DETAILS		8112-02-22
7	1			DRAIN TUBE DETAILS		8112-02-14
8	1			STEAM HEATING		8112-02-13
9	1			LADDER DETAIL		CSTD 2414
10	1			WELD PAD AND SPILLBOX ORIENTATION		8112-02-03
11	1			MARKINGS		8112-02-19
12	1			DOCUMENT HOLDER FIXING	& REAR FRAME ATTACHMENTS	8112-02-15
13	1			DATA PLATE		8112-02-24
14	1			CALIBRATED DIPSTICK		CSTD 2157
15	1			2½" SAFETY RELIEF VALVE	ASSEMBLY	8112-02-25
16	1			1½" AIR INLET	ASSEMBLY	8112-02-27
17	1			3" TOP DISCHARGE	ASSEMBLY	8112-02-26
18	1			3" BOTTOM DISCHARGE	ASSEMBLY	8112-02-28
19	1	C		MANWAY	8 POINT 500 I/D	
20	1	J		MANWAY GASKET		
21	1	Y		THERMOMETER	-20 to 200°C; 0 to 400°F	.
22	2	O		TIR SEAL		
23	9	Y		WIRE SEAL	ø2x120 LG	
24	1			ELECTRICAL CONTROL BOX		
25	2			PARKING PLUGS		8112-02-41

TECHNICAL DATA

INTERNATIONAL ORGANISATION REGULATIONS	IMDG-IMO	US DOT-CFR49	RID/ADR
ADDITIONAL APPROVALS	AAR 600 / CSC / TC / TIR / CUSTOMS / UN PTI T11 UIC (34000kg WITH SUPERHEAVY DECAL)		
PRESSURE VESSEL CODE OF DESIGN	ASME VIII DIVISION 1 (NOT U-STAMPED)		
CONTENTS: PRODUCT OF CLASS	3, 6.1, 8, 9 AS APPLICABLE		
M.P.G.M.	36 000kg		
TARE MASS			
STACKING LOAD	86 400kg PER CORNER CASTING		
	VESSEL	HEATING SYSTEM	
DESIGN PRESSURE	4 BAR	6 BAR	
HYDROSTATIC TEST PRESSURE	6 BAR	SHOP 10 BAR	FIELD 10 BAR
MAXIMUM EXTERNAL PRESSURE	0.40 BAR		
TANK METAL DESIGN TEMPERATURE	130°C (266°F): -40°C (-40°F)		
JOINT EFFICIENCY	SHELL 0.85	DISHED END 1.0	
RADIOGRAPHY	SHELL SPOT	DISHED END 100%	
CORROSION ALLOWANCE	0.1mm		
LEAKAGE TEST	YES		
DYE PENETRATION EXAMINATION	WHERE APPLICABLE		
INSULATION: SHELL	MINERAL WOOL 55kg/m³-50mm THICK.		
INSULATION: HEADS	GLASSWOOL 16kg/m³-THICKNESS TO SUIT		
INSULATION: STEAM COILS	MINERAL WOOL 55kg/m³-50mm THICK.		
CLADDING: SHELL GRADE 5251	0.8mm MILL FINISH ALUMINIUM		
CLADDING: HEADS	G.R.P. (WHITE RAL 9010)		
FINISH: SHOTBLAST	SA 2½		
PAINT: FRAME 30µm DFT	1ST COAT : HEMPADUR ZINC (1536)		
HEMPEL 30µm DFT	2ND COAT : HEMPADUR PRIMER (1530)		
70µm DFT	TOP COAT : HEMPATEX HIBUILD (4641)		
MINIMUM DRY FILM THICKNESS 130µm DFT			
TOP COAT COLOUR:	JET BLACK RAL 9005		
LADDER:	HOT DIPPED GALVANISED		
ANTI STRESS CORROSION LACQUER	OVER COMPLETE BARREL (15 to 25µm D.F.T.)		
INSPECTION AUTHORITY	BUREAU VERITAS		
P NUMBERS	P32726 TO P32745		

FORT VALE 2½" SUPER MAXI HIGHFLOW RELIEF VALVE(S):

QUANTITY OF VALVES 2 | 1+PROVISION | 1 ✓

MODEL: PRESSURE ONLY WITHOUT GAUZE: 010/16300 ✓ | PRESS/VAC WITH GAUZE:

FIRE SHIELD: YES

BURST DISC: PROVISION

MANOMETER: PROVISION

REDUCTION FACTORS IF APPLICABLE

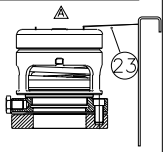
FIRE SHIELD 1% : RF=0.99 —

BURST DISC 10% : RF=0.90 —

FULL FLOW RATE OF VALVE = 16036m³/Hr

ACTUAL FLOW RATE = QUANTITYxFULL FLOWxREDUCTION FACTORS

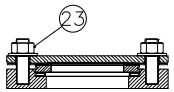
= 16036m³/Hr (15)



SAFETY VALVE ASSEMBLY

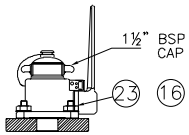
(17)

4xM16 ON 160 PCD
6xM12 ON 168 PCD
GASKET: KLINGERSIL/PTFE

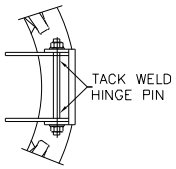


3" TOP DISCHARGE ASSEMBLY

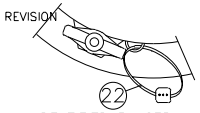
½" BTR/GESTRA BALL VALVE
PART No. VV10
PTFE GASKET



1½" AIR INLET ASSEMBLY

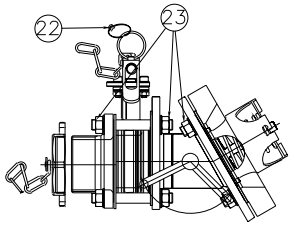


MANWAY SEALING

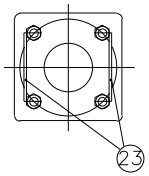


IDENTIFIED BY SERIAL No.

(18)



2-OFF WIRE SEAL PER FLANGE

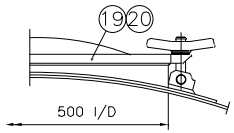


BUTTERFLY VALVE FORT VALE No: 368/7000B
FOOT VALVE FORT VALE No: 830/3200
GASKET: KLINGERSIL/PTFE

3" BOTTOM DISCHARGE ASSEMBLY

(19)

GASKET: GENUINE BRAIDED PTFE



SWIFT MANLID No. STM 700201
8 POINT FIXING

MANWAY ASSEMBLY

AUTHORITY	SIGN.	DATE	DESCRIPTION	AUTHORITY	SIGN.	DATE	DESCRIPTION	REVISION C AUTHORITY	SIGN.	DATE	DESCRIPTION	REVISION B AUTHORITY	SIGN.	DATE	DESCRIPTION	REVISION A AUTHORITY	SIGN.	DATE	DESCRIPTION	DRAWING APPROVAL AUTHORITY	SIGNATURE	DATE
DRAWN				DRAWN				DRAWN	T.J.B.	26/11/02	ELECTRICAL PARKING PLUGS ADDED.	DRAWN	A.O'R	25/9/02	TIR WIRE ON SRV REVISED	DRAWN	ACM	29/7/2	CONTROL BOX ADDED ITEM 24 & RUBBER 40x40 INDICATED.	DESIGN	SE	19/7/2
DESIGN				DESIGN				DESIGN				DESIGN				DESIGN				QUALITY ASSURANCE		
QUALITY ASSURANCE				QUALITY ASSURANCE				QUALITY ASSURANCE				QUALITY ASSURANCE				QUALITY ASSURANCE				CONTRACTS	TN	19/7/2
CONTRACTS				CONTRACTS				CONTRACTS				CONTRACTS				CONTRACTS				INSPECTION AUTHORITY		
INSPECTION AUTHORITY				INSPECTION AUTHORITY				INSPECTION AUTHORITY				INSPECTION AUTHORITY				INSPECTION AUTHORITY				CLIENT		

REQUIRED TOLERANCE	NOMINAL DIMENSIONS (SHORT SIDE OF TRIANGLE) DEGREES & MINUTES: ABOVE 0 TO 315	ABOVE 315 TO 1000	ABOVE 1000	MM/M: ABOVE 0 TO 315	ABOVE 315 TO 1000	ABOVE 1000	NOMINAL DIMENSIONS: ABOVE 0 TO 120	ABOVE 120 TO 315	ABOVE 315 TO 1000	ABOVE 1000 TO 2000	ABOVE 2000 TO 4000	ABOVE 4000 TO 8000	ABOVE 8000
A	± 20'	± 15'	± 10'	± 6	± 4.5	± 3	± 1	± 1	± 2	± 3	± 4	± 4	± 6
B	± 45'	± 30'	± 20'	± 13	± 9	± 6	± 2	± 2	± 3	± 4	± 6	± 8	± 10
C	± 1°	± 45'	± 30'	± 18	± 13	± 9	± 3	± 4	± 6	± 8	± 11	± 14	± 18
D	±1°30'	±1°15'	± 1°	± 26	± 22	± 18	± 4	± 7	± 9	± 12	± 16	± 21	± 27
	DIN 8570 PART 1						FROM 0-30 TOLERANCE ±1 DIN 8570 PART 3						

CONSANI ENGINEERING (PTY) LTD
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FAX. 591-2825

INTERMODAL CONTAINERS

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CAD: 811200

GENERAL ARRANGEMENT
24 000 LITRE
MODEL HO3

CLIENT	OCI/TANKSPAN	SCALE	1:25	DRAWING NUMBER	REVISION
		DRAWN	ACM	8112-02-00	C
WORKS ORDER	8112	CHECKED			
		DATE	18/07/02		