GENERAL NOTES

1) FLANGE HOLES WILL STRADDLE CENTRE LINES UNLESS OTHERWISE STATED.
2) NOZZLE PROJECTIONS ARE FROM TANGENT LINE OF VESSEL TO TOP OF NOZZLE U.O.S.
3) WELD PADS (DOUBLERS), WILL BE CONT. FILLET WELDED. INTERNAL AND EXTERNAL WELD PADS WILL HAVE AT LEAST ONE ø6 HOLE DRILLED ON THE DOWN SIDE OF THE PAD. THESE TELL TALE HOLES TO BE WELDED CLOSE AFTER TESTING
4) SEE VALVE ASSEMBLY DRAWING FOR STUD AND OR BOLT TORQUE VALUES.

5) SURFACE FINISH
i) THE INTERIOR OF THE VESSEL WILL BE SHOT BLASTED TO SA 2½ AND WILL BE DELIVERED IN A NITROGEN PURGED CONDITION. DRY NITROGEN (O_2 < 1% RESIDUAL OXYGEN, 1 BAR PRESSURE: DEW POINT −20°C) WILL BE USED FOR PURGING.
ii) AFTER SHOT BLASTING, THE VESSELS INTERNAL SURFACE WILL BE VACUUM CLEANED WITH AN INDUSTRIAL VACUUM MACHINE. ALL OPENING POINTS WILL THEN BE SEALED FOR NITROGEN FILL
iii) THE EXTERNAL SURFACE OF THE VESSEL WILL BE SHOT BLASTED TO SA 2½ BEFORE THE APPLICATION OF THE PRIMER.
v) ALL EXTERNAL AND INTERNAL WELDS TO BE LEFT "AS WELDED".
vi) A LEAK TEST WILL BE PERFORMED USING NITROGEN @ 5.5 BAR(g) PRESSURE. AFTER THE LEAK TEST, THE PRESSURE IS TO BE REDUCED TO THE FINAL PURGING CONDITION, 1.0 BAR

PAINT SPECIFICATION

FRAME PREPARATION		SHOT BLASTED TO SA 2½
TANK PREPARATION		SEE GENERAL NOTE (5)
PAINT (FRAME)	1ST COAT	HEMPADUR ZINC (15360) DFT 40µm
	2ND COAT	HEMPADUR PRIMER (15553) DFT 40µm
TOP COAT: RED	RAL3002	HEMPATHANE (55210) DFT 50µm
PAINT (TANK)	1ST COAT	HEMPADUR ZINC (15360) DFT 40µm
	2ND COAT	HEMPADUR PRIMER (15553) DFT 40µm
TOP COAT: OFF WHITE	RAL9010	HEMPATHANE (55210) DFT 50µm

MATERIALS OF CONSTRUCTION

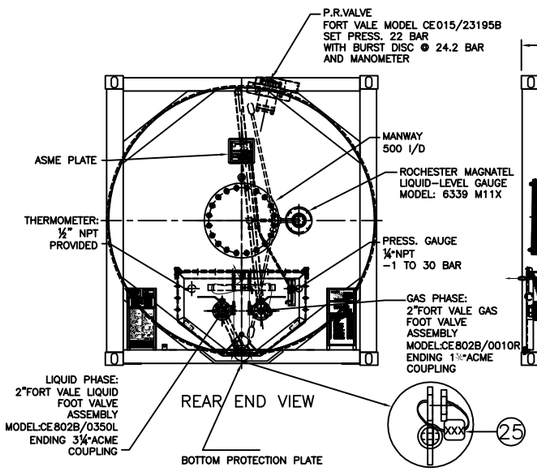
SHELL	SA 612 NORMALIZED
HEADS	SA 612 NORMALIZED
ATTACHMENTS TO PRESS. ENVELOPE	SA 612 or SA 516 Gr. 70 NORMALIZED
FLANGES/WELD−IN FORGINGS	SA 350 LF 2 NORMALIZED
PIPING (INTERNAL)	ST/ST 304 or 304 L − Sch 40
GASKETS	SOLID PTFE AND KLINGER SIL C−4430/PTFE
BAFFLES	THREE SETS − REMOVABLE − 3CR12
MANWAY STUD / NUT	SA 320 Gr. L7 / SA 194 Gr. 7
PRV BOLTING	SA 320 Gr. B8M CL 1
VALVE STUD / NUT	SA 320 Gr. B8M CL 1 / SA 194 Gr. 8M
NON PRESSURE PARTS	SABS 1431 Gr. 300 WA
FRAME − PLATE	EN 10025 S355 K2G3C / SUPRAFORM TM 380
FRAME − HOLLOW SECTIONS	EN 10210 S355 J2H / SUPRAFORM TM 380
LADDER	N/A
WALKWAY	N/A
SUNSHIELD	MARINE GRADE ALUMINIUM
INSULATION : SHELL	N/A
INSULATION : ENDS	N/A
CLADDING : −	N/A

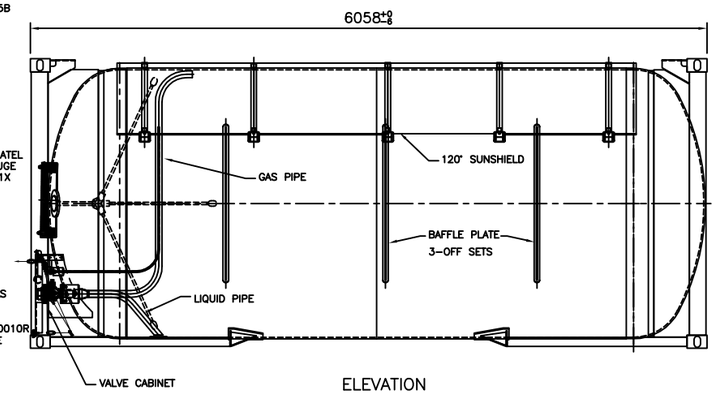
RANGE: −40 TO 60°C IN BLACK
−40 TO 140°F IN RED
ø80mm Bi−METAL
SS 316L CASE AND BEZEL
½"NPT REAR CONNECTION

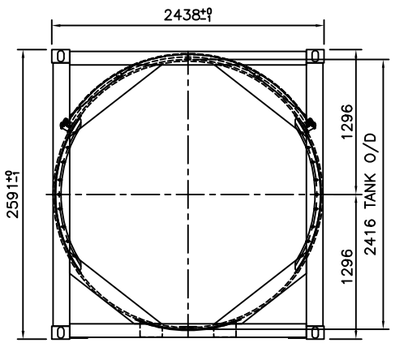
THERMOMETER

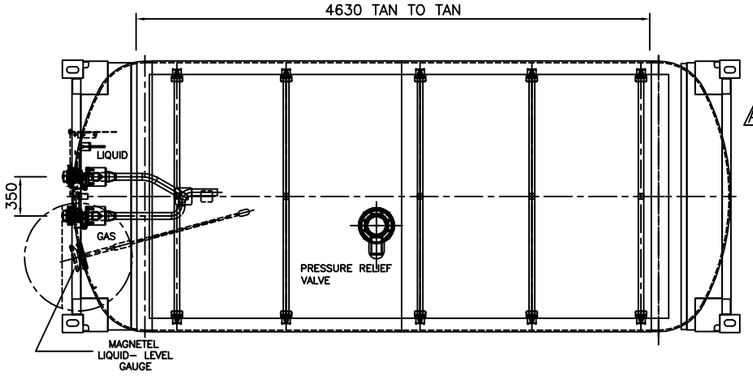
GAUGE: −1 TO 40 Bar
BALL VALVE: ¼" NPT
GASKET: PTFE

PRESSURE GAUGE



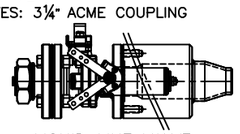






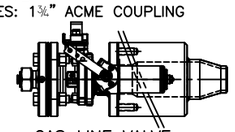
EURU 535288 to EURU 535307

2" FORT VALE LIQUID
FORT VALE No.: CE802B/0350L
GASKET: PTFE
TERMINATES: 3¼" ACME COUPLING



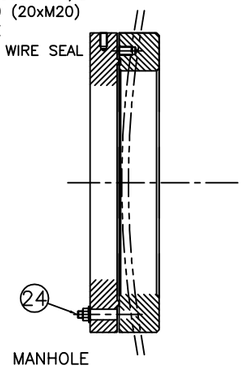
LIQUID LINE VALVE

2" FORT VALE GAS
FORT VALE No.: CE802B/0010R
GASKET: PTFE
TERMINATES: 1¼" ACME COUPLING



GAS LINE VALVE

M/HOLE ASSEBMLY
DIMENSIONS: 500mm I/D
TYPE: BOLTED (20xM20)
GASKET: PTFE
SEAL: 2−OFF WIRE SEAL

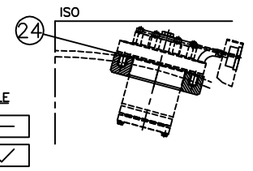


MANHOLE

FORT VALE 3" INTERNAL SUPER GAS RELIEF VALVE(S):

QUANTITY OF VALVES: 2 | 1+PROVISION | 1 ✓
MODEL: PRESSURE ONLY: CE015/23195B ✓ | PRESS/VAC
FIRE SHIELD: NO
BURST DISC: YES
MANOMETER: YES

REDUCTION FACTORS IF APPLICABLE
FIRE SHIELD 0% : RF=1,00 —
BURST DISC 0% : RF=1 ✓



SAFETY VALVE ASSEMBLY

FULL FLOW RATE OF VALVE = 49223m³ /Hr
ACTUAL FLOW RATE = QUANTITYxFULL FLOWxREDUCTION FACTORS
= 44298m³ /Hr

GasCon REFERENCE DRAWINGS

No.	QTY	MAT	STOCK CODE	DESCRIPTION	DIMENSIONS	REFERENCE
1				GENERAL ARRANGEMENT		10006/10/245/1/1
2				VALVE ASSEMBLIES		---/--/--/1/2
3				WELD MAP AND MATERIAL ID. DIAGRAM		---/--/--/1/3
4				TANK DETAILS		---/--/--/2/1
5				SHELL AND HEADS		---/--/--/2/2
6				NOZZLE DETAILS		---/--/--/2/3
7				INTERNAL DETAILS		---/--/--/3/1
8				BAFFLE DETAILS		---/--/--/3/2
9				SUNSHIELD ASSEMBLY		---/--/--/4/1
10				MARKINGS		---/--/--/5/1
11				GENERAL DATA PLATE		---/--/--/5/2
12				ASME PLATE		---/--/--/5/3
13				SQLO PLATE		---/--/--/5/4
14				COMBINED CSC AND CUSTOMS PLATE		---/--/--/5/5
15				COMBINED OWNERS AND MANUFACTURER PLATE		---/--/--/5/6
16				PRODUCT PLATE		---/--/--/5/7
17				VALVE CABINET ASSEMBLY		---/--/--/6/1
18				VALVE CABINET DETAIL		---/--/--/6/2
19				VALVE CABINET FRAME		---/--/--/6/3
20				BEAM FRAME ASSEMBLY		---/--/--/7/1
21				BEAM FRAME REAR AND FRONT ENDS		---/--/--/7/2
22				BEAM FRAME BOTTOM BRACES		---/--/--/7/3
23				BEAM FRAME BOTTOM TIE POINTS		---/--/--/7/4
24	3			WIRE SEAL	ø5x150 LG	
25	2			TIR SEAL		
26	1			PRV COVER		GSTD−0208

TECHNICAL DATA

VESSEL No. (CLIENT)	EURU 535288 to EURU 535307
⚠ VESSEL No. (GasCon)	P41733 to P41735 & P41739−P41755
INSPECTION AUTHORITY / AUTHORIZED INSPECTOR / No.	BV
DESIGN CODES/REGULATIONS	ASME VIII DIV 2 ; 2010
OTHER REGULATIONS	IMDG−, RID/ADR−, CFR49−T50 UN PORTABLE TANK
	TIR/CUSTOMS; CSC; UIC; TC IMP.; SEL; TPED
DESIGN PRESSURE (INTERNAL/EXTERNAL)	2200 kPa(g) / 100 kPa(g)
PRV SETTING	2200 kPa(g)
M.A.W.P.	2200 kPa(g)
HYDROSTATIC TEST PRESSURE PERIODIC	2990 kPa(g) (2,99 MPa) (29,9 bar)
DESIGN TEMPERATURE (MAX./MIN.) / M.D.M.T.	(+55°C/−46°C) / −46°C
FATIGUE ANALYSIS	EXEMPTED AS PER §−5.5.2
PRODUCTION IMPACT TESTING	YES
CORROSION ALLOWANCE	NIL
HEAT TREATMENT	YES, COMPLETED VESSEL TO BE PWHT
LEAKAGE TEST	YES QAP 10.5
CONTENTS / DESIGN SPECIFIC GRAVITY	AS PER PRODUCT LIST / 0.6
TOTAL VOLUME (NOMINAL ±1%)	24500 Litre
MPGM	36 000kg
STACKING TEST LOAD	86 400 kg PER CORNER CASTING

NDE (NON DESTRUCTIVE TESTING)

TYPE	EXTENT	STAGE
VISUAL	100% ALL WELDS	BEFORE & AFTER PWHT and AFTER HYDRO
RADIOGRAPHY	100% ALL LONG. & CIRC. BUTT WELDS	BEFORE PWHT
UT	100% ALL NOZZLE−TO−TANK ATTACHMENT WELDS	BEFORE PWHT
MPI	100% ALL NOZZLE WELD PREPS	BEFORE WELDING
MPI	100% ALL NOZZLE, PAD & ATTACHMENT WELDS	BEFORE & AFTER PWHT

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CAD: 10007224511.dwg

	REVISION C	REVISION B	REVISION A	DRAWING APPROVAL
AUTHORITY			DRAWN AB 23/11/2011	DESIGN
SIGN.			DESIGN	QUALITY ASSURANCE
DATE			QUALITY ASSURANCE	OPERATION MANAGER
DESCRIPTION			OPERATION MANAGER PIN NUMBER UPDATE	SIGNATURE / DATE
DRAWN				
DESIGN				
QUALITY ASSURANCE				
OPERATION MANAGER				

REQUIRED TOLERANCE	NOMINAL DIMENSIONS (SHORT SIDE OF TRIANGLE) DEGREES & MINUTES			MM/M			NOMINAL DIMENSIONS							
	ABOVE 0 TO 315	ABOVE 315 TO 1000	ABOVE 1000	ABOVE 0 TO 315	ABOVE 315 TO 1000	ABOVE 1000	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							

GENERAL ARRANGEMENT
24500 Litre~ASME~22 Bar GAS TANK

CLIENT	EUROTAINER	SCALE	1:25	DRAWING NUMBER	REVISION
WORKS ORDER	100072	DRAWN	AB	100072/11/245/1/1A	A
		CHECKED			
		DATE	01/10/2011		