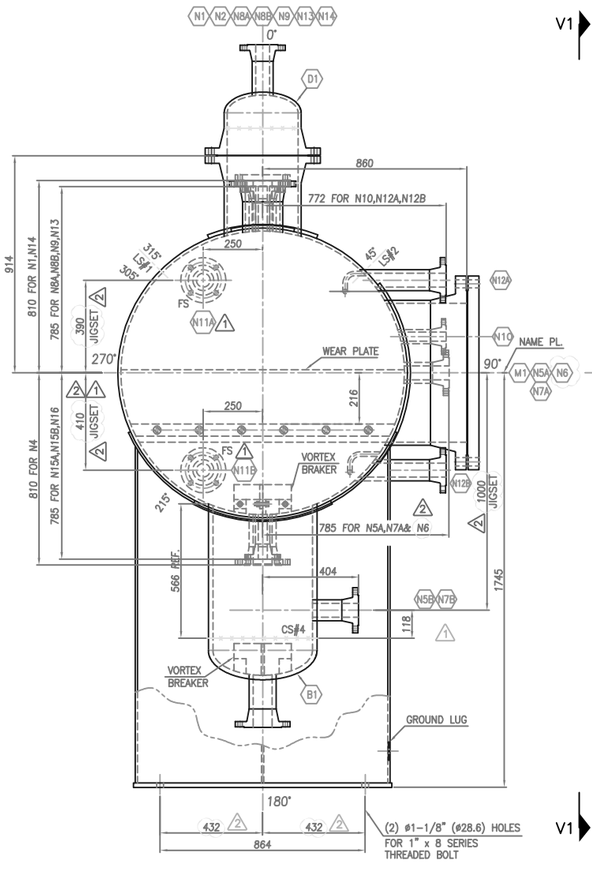
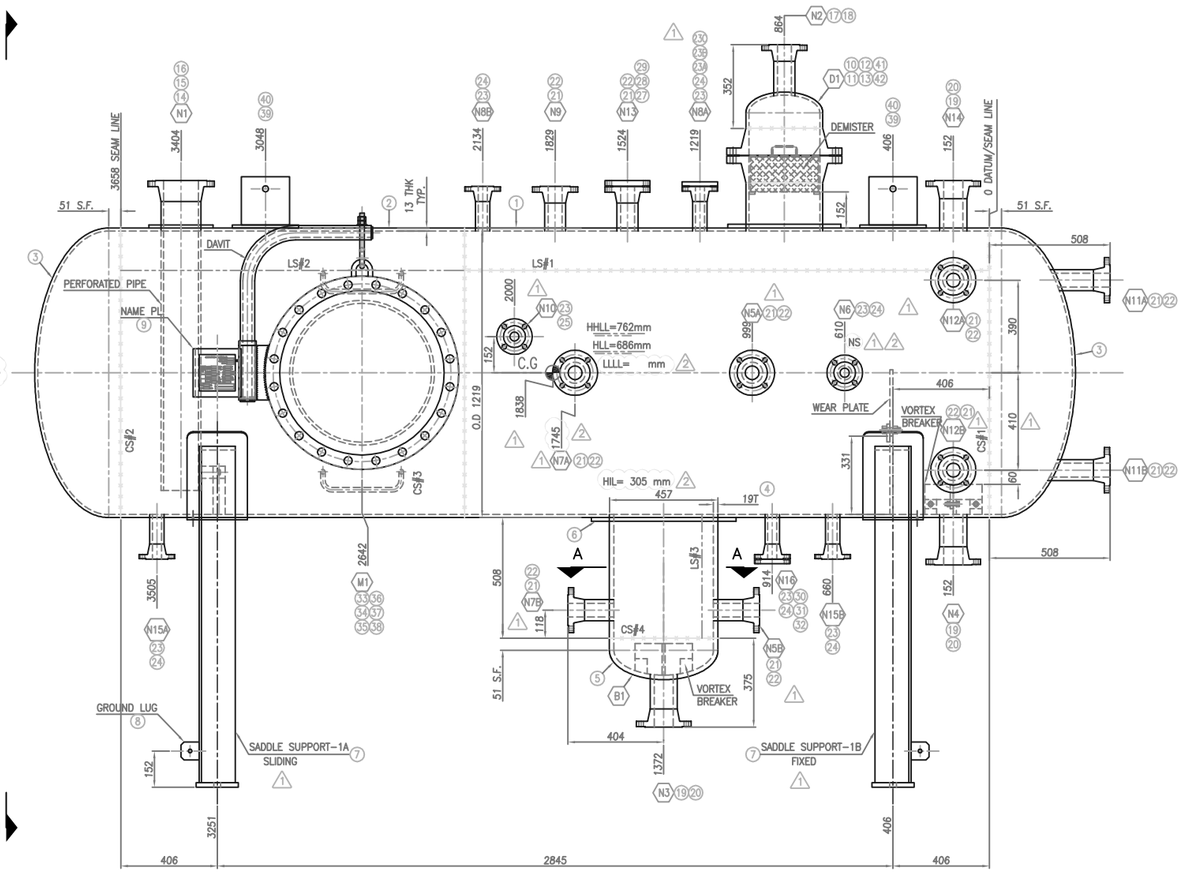
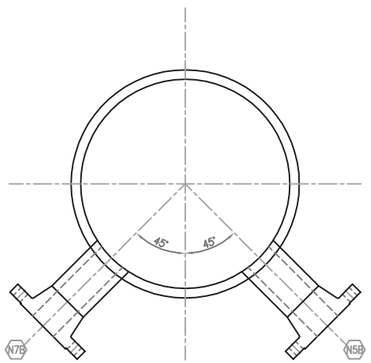


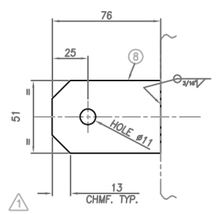
VIEW 'V1–V1'



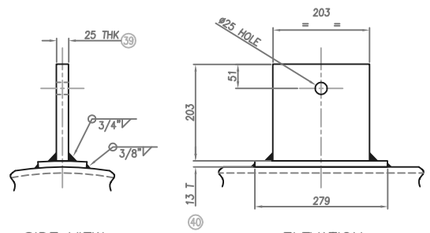
ELEVATION



SECTION A–A



GROUND LUG



SIDE VIEW ELEVATION

DETAIL OF LIFTING LUG

DRAWING NOTES		NAME PLATE DETAIL				VESSEL CRN STAMP
OP. PRESS.	50 KPag	MANUFACTURED & CERTIFIED BY		YEAR BUILT	2013	
OP. TEMP.	50°C			SERIAL NO.	7937-3-12	
EMPTY WT.	6,349 lb (2,880 Kg)			C.R.N.		
TEST WT.	16,937 lb (7,683 Kg)	W RT1	MAWP	102 PSIG AT	338 °F	
IMPACT TEST	NOTES # 4		MAEWP	15 PSIG AT	338 °F	
Min. t. Shell:	0.500" N&C		MAWP	700 kPag AT	170 °C	
Head:	0.438" N&C		MAEWP	103 kPag AT	170 °C	
VOLUME:	164.4 FT3 (4.66 M3)	HT	MDMT	-20 °F AT	102 PSIG	
SURFACE PREP.:	NOTE #2		MDMT	-29 °C AT	700 kPag	
			SH.THK	0.500 IN.	NS. THK. 0.438 IN.	
			SH.THK	12.70 MM.	NS. THK. 11.12 MM.	
		MAT. SA	516-70N	MAT. SA	516-70N	
		C.A.	0.126 IN.	TAG NO.		
ALL TOLERANCES +/- 1/8" UNO		C.A.	3.20 MM.			
TACK WELDS USE WPS# BPI-1CWN REV 5						

BILL OF MATERIAL

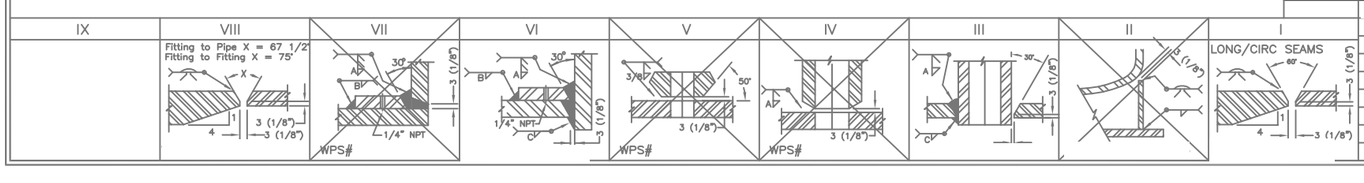
ITEM	REQ'D	PART	DESCRIPTION	MATERIAL	W# / NOTE	WEIGHT
1	1	SHELL	1219 OD x 12.7 NOM t x 2209 LG 1 2	SA-516-70N		
2	1	SHELL	1219 OD x 12.7 NOM t x 1448 LG	SA-516-70N		
3	2	HEAD	1219 OD 2:1 SE x 12.7 NOM t (11.12 MIN t) c/w 50.8 SF	SA-516-70N		
4	1	B1-SHELL	457 OD x 19 NOM t x 566 LG (CTS)	SA-516-70N		
5	1	B1-HEAD	457 OD 2:1 SE x 19 NOM t (12.7 MIN t) c/w 50.8 SF	SA-516-70N		
6	1	B1	610 OD (76 WIDE) x 15.9 NOM t REPAD	SA-516-70N		
7	2	SADDLE	SEE DETAIL DWG 7937-3A	SA-516-70N		
8	2	G. LUG	9.5 NOM t PLATE CLIP GROUND LUG (SEE DETAIL)	SA-516-70N	1 / 2	
9	1	NAME PL.	STD ASME 304SS NAMEPLATE W/ BRACKET	SA-516-70N		
10	2	D1	12" 150# RFWN FLANGE SCH XS (12.7 THK.)	SA-105N		
11	1	D1	12" SCH XS (12.7 THK.) SMLS PIPE x 225 LG. (CTS)	SA-106B		
12	1	D1	476 OD (76 WIDE) x 15.9 NOM t REPAD	SA-516-70N		
13	1	D1	12" SCH XS (12.7 THK.) END CAP	SA-234 WPB		
14	1	N1	6" 150# RFWN FLANGE SCH XS (10.9THK.)	SA-105N		
15	1	N1	6" SCH XS (10.9 THK.)SMLS PIPE x 1216 LG. (CTS)	SA-106B		
16	1	N1	270 OD (50.8 WIDE) x 12.7 NOM t REPAD	SA-516-70N		
17	1	N2	3" 150# RFWN FLANGE SCH XXS (15.24 THK.)	SA-105N		
18	1	N2	3" SCH XXS (15.24 THK.) SMLS PIPE x 146 LG. (CTS)	SA-106B		
19	3	N3,N4,N14	4" 150# RFWN FLANGE SCH XXS (17.11 THK.)	SA-105N		
20	3	N3,N4,N14	4" SCH XXS (12.7 THK.) SMLS PIPE x CTS	SA-106B		
21	10	VARIOUS	3" 150# RFWN FLANGE SCH XXS (15.24 THK.)	SA-105N		
22	10	VARIOUS	3" SCH XXS (15.24 THK.) SMLS PIPE x CTS	SA-106B		
23	7	VARIOUS	2" 150# RFWN FLANGE SCH XXS (11 THK.) N8A c/w BLIND FLANGE	SA-105N		
23A	1	N8A	2" 150# RF BLIND FLANGE	SA-105N		
23B	4/8	N8A	ø5/8" x 3.25" LG SA-193 STUDS/SA-194 NUTS	B7/2H		
23C	1	N8A	2" 150# GASKET FLEXITALLIC SPWD CGI 316 SS	316 SS		
24	6	VARIOUS	2" SCH XXS (11 THK.) SMLS PIPE x CTS	SA-106B		
25	1	N10	2" SCH XXS (11 THK.) SMLS PIPE x 140 LG. (CTS)	SA-106B		
27	1	N13	3" 150# RF BLIND FLANGE	SA-105N		
28	4/8	N13	5/8"ø x 3.5" LG SA-193 STUDS/SA-194 NUTS	B7M/2HM		
29	1	N13	3" 150# SPIRAL WOUND GASKET	316SS		
30	1	N16	2" 150# RF BLIND FLANGE	SA-105N		
31	4/8	N16	5/8"ø x 3.125" LG SA-193 STUDS/SA-194 NUTS	B7M/2HM		
32	1	N16	2" 150# SPIRAL WOUND GASKET	316SS		
33	1	M1	24" 150# RFWN FLANGE SCH XS (BORE=584.2mm)	SA-105N		
34	2	M1	584.2 ID x 12.7 NOM t x 195 LG (CTS)	SA-516-70N		
35	1	M1	813 OD (102 WIDE) x 12.7 NOM t REPAD	SA-516-70N		
36	1	M1	24" 150# RF BLIND FLANGE	SA-105N		
37	20/40	M1	1¼"ø x 6.75" LG SA-193 STUDS/SA-194 NUTS	B7M/2HM		
38	1	M1	24" 150# SPIRAL WOUND GASKET	316SS		
39	2	L.LUG	204 x 204 x 25.4 NOM t (REFER DETAIL)	SA-516-70N		
40	2	L.LUG	279 x 102 x 12.7 NOM t REPAD	SA-516-70N		
41	12/24	D1	7/8"ø x 4.75" LG SA-193 STUDS/SA-194 NUTS	B7M/2HM		
42	1	D1	12" 150# SPIRAL WOUND GASKET	316SS		

NOZZLE SCHEDULE

MARK	SIZE	QTY	RATING	TYPE	DESCRIPTION	INT PROJ	WELD	A	B	C
N1	6"	1	150#	RFWN	INLET	SEE DRG.	VIII,VI	3/8"	3/8"	3/8"
N2	3"	1	150#	RFWN	VAPOUR OUTLET	FLUSH	VIII,III	3/8"	–	–
N3	4"	1	150#	RFWN	WATER OUTLET	FLUSH	VIII,III	3/8"	–	–
N4	4"	1	150#	RFWN	DILUENT OUTLET	FLUSH	VIII,III	3/8"	–	–
N5A/B	3"	2	150#	RFWN	INTERFACE LEVEL GAUGE	FLUSH	VIII,III	3/8"	–	–
N6	2"	1	150#	RFWN	PUMP RECYCLE	FLUSH	VIII,III	3/8"	–	–
N7A/B	3"	2	150#	RFWN	LEVEL TRANSMITTER	FLUSH	VIII,III	3/8"	–	–
N8A	2"	1	150#	RFWN	PRESSURE TRANSMITTER C/W BLD FLG.	FLUSH	VIII,III	3/8"	–	–
N8B	2"	1	150#	RFWN	PRESSURE TRANSMITTER	FLUSH	VIII,III	3/8"	–	–
N9	3"	1	150#	RFWN	PSV	FLUSH	VIII,III	3/8"	–	–
N10	2"	1	150#	RFWN	TEMPERATURE ELEMENT	FLUSH	VIII,III	3/8"	–	–
N11A/B	3"	2	150#	RFWN	HC LEVEL	FLUSH	VIII,III	3/8"	–	–
N12A/B	3"	2	150#	RFWN	LEVEL TRANSMITTER	FLUSH	VIII,III	3/8"	–	–
N13	3"	1	150#	RFWN	SPARE c/w BLIND FLG.	FLUSH	VIII,III	3/8"	–	–
N14	4"	1	150#	RFWN	VENT	FLUSH	VIII,III	3/8"	–	–
N15A/B	2"	2	150#	RFWN	DRAIN	FLUSH	VIII,III	3/8"	–	–
N16	2"	1	150#	RFWN	SPARE c/w BLIND FLG.	FLUSH	VIII,III	3/8"	–	–
M1	24"	1	150#	RFWN	MANWAY W/ BLIND & DAVIT	FLUSH	VIII,VI	3/8"	3/8"	–
B1	18"	1	–	PE	SUMP NOZZLE	FLUSH	VIII,VI	3/8"	3/8"	–
D1	12"	1	150#	RFWN	VAPOR DOME	FLUSH	VIII,VI	3/8"	3/8"	–

DESIGN DATA

DESIGN PRESS.	-15/102 PSIG (-103/700 KPAG) AT 338°F (170°C)	SERIAL NO.	
DESIGN TEMP.	-20°F (-29°C) AT -15/102 PSIG (-103/700 KPAG)	C.R.N. NO.	PENDING (REGISTERED IN AB)
CORROSION ALL.	0.126" (3.20 mm)	LOCATION	
TEST PRESSURE	133 PSI (917 KPA)	ASME CODE	SECTION VIII, DIV 1, 2010 ED, A11 ADDENDA
RADIOGRAPHY	UW-11(a) 100% ABW, RT-1	QUALITY CONTROL PROGRAM #	
HEAT TREATMENT	1150°F 1 HR PER UCS-56	PRESSURE WELDER QUALIFICATION PROGRAM #	



REV	DATE	DESCRIPTION	BY

DRAWN
DATE
SCALE
CHECKED
APP'D

CUSTOMER:

TITLE:

DRAWING NUMBER

REVISION 2