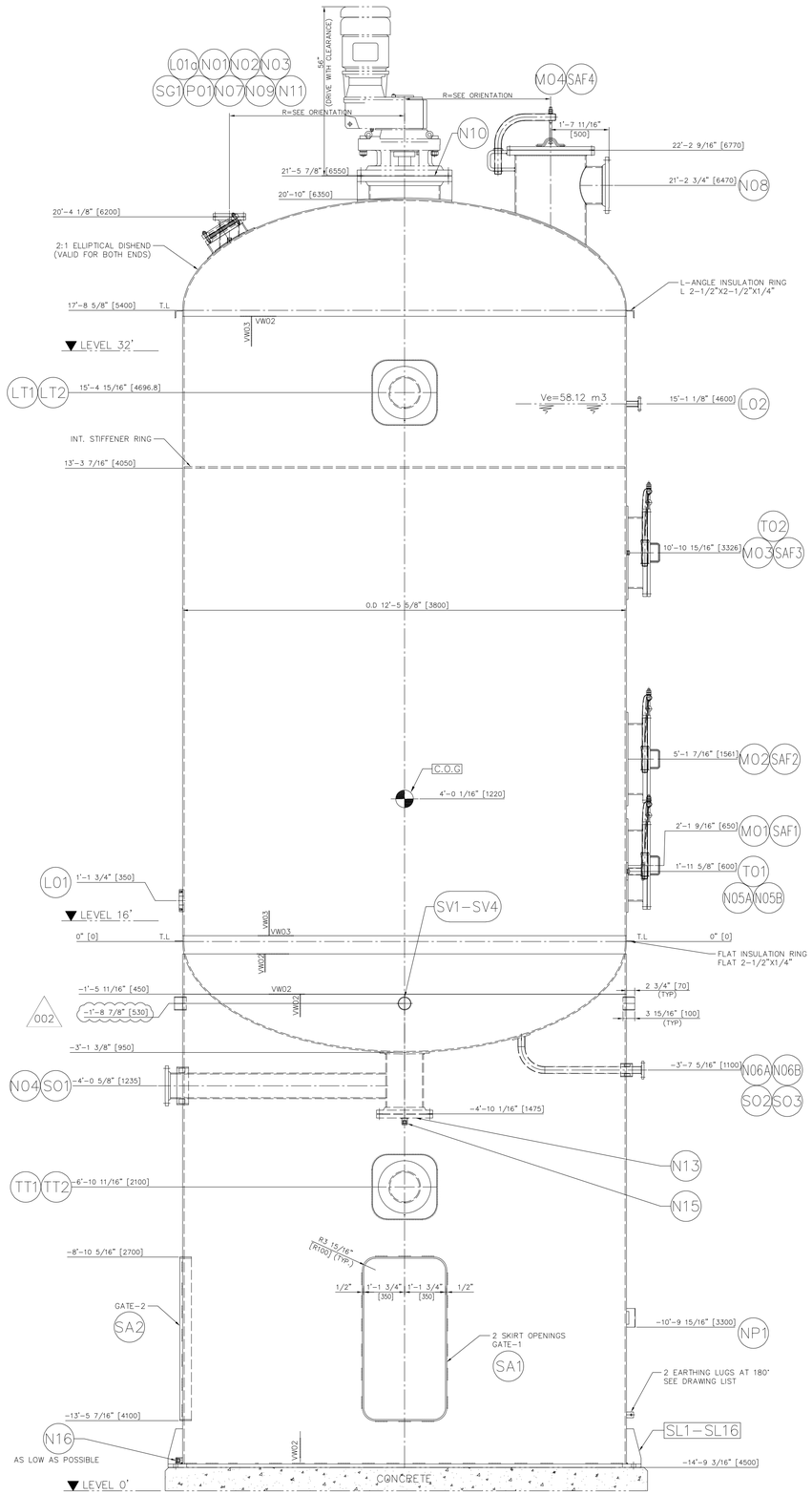
ACCORDING THE LAW OUR SURVEYS AND DRAWINGS ARE OUR EXCLUSIVE PROPERTY COMMUNICATED TO THIRD PARTIES ONLY FOR THE PURPOSE FOR WHICH THEY ARE ASTER MODIFICATIONS WITHOUT OUR WRITTEN CONSENT

DE CONFORMIDAD CON LA LEY, NUESTROS ESTUDIOS Y DIBUJOS SON PROPIEDAD EXCLUSIVA, PUEDEN SER USADOS POR TERCEROS SOLO PARA LO COMUNICADO A LOS TERCEROS, BORRADAS SIN NUESTRA AUTORIZACION, NO SE PUEDE AUNQUE HAYAN SIDO MODIFICADOS

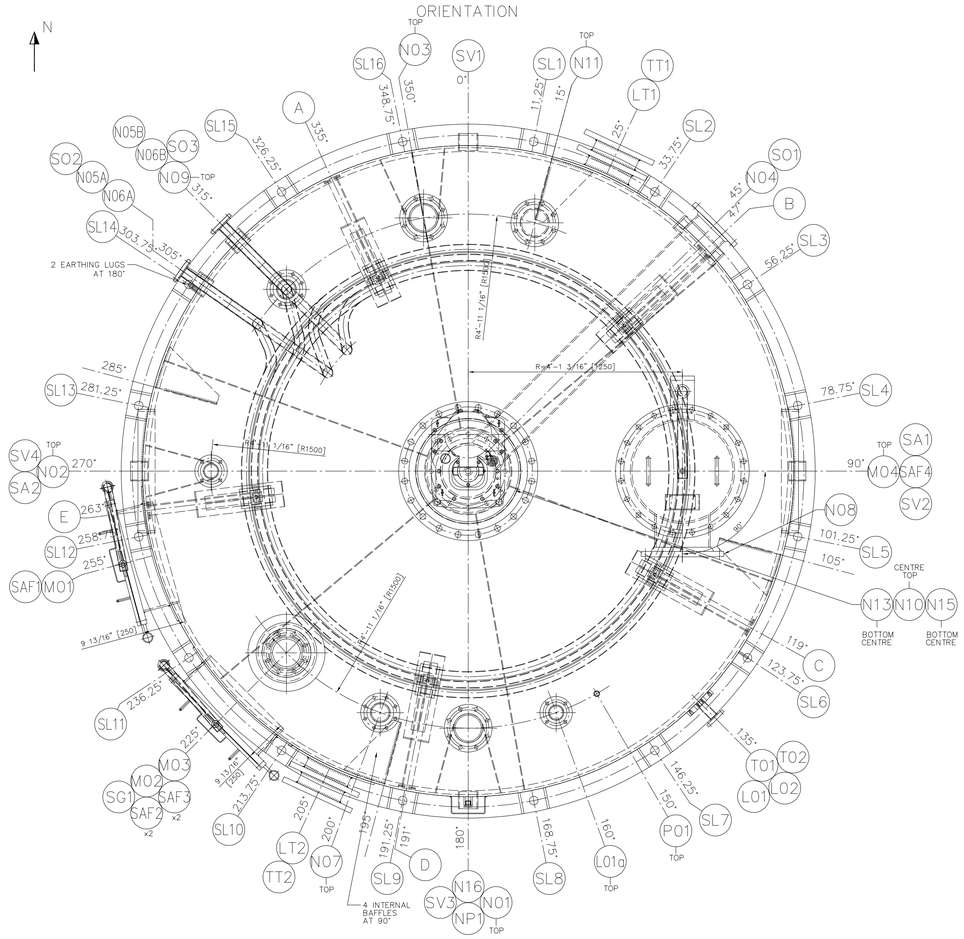
CONFORMENT A LA LOI NOS ETUDES DESSINS SONT PROPRIETE EXCLUSIVE, ILS PEUVENT ETRE REPRODUITS PAR UNE TIERCE PERSONNE EN COMMUNIQUES A DES TIERS MEME APRES MODIFICATIONS SANS NOTRE AUTORISATION ECRITE

IF IN DOUBT, ASK – DO NOT SCALE !

DIMENSIONAL DRAWING
NOT VALID FOR ORIENTATION



ORIENTATION



NOZZLES

POS.	SERVICE	QTY.	NOMINAL DIA	FLANGE RATING	FLANGE TYPE	SCHED/ THK.	REINF. PAD O.D x THK.	PROJ. LENGTH	REMARKS REF. DRG.	WELD TYPE
N01	OIL INLET FROM 621B.2	1	6"	CLASS 150	SO-RF	SCHED.40S	9 13/16"x1/2"	2' 7-1/2"		FWO2/NW11
N02	OIL INLET FROM P682H	1	3"	CLASS 150	SO-RF	SCHED.40S	6 11/16"x1/2"	2' 7-1/2"		FWO2/NW11
N03	INLET FROM FILTERS	1	6"	CLASS 150	SO-RF	SCHED.40S	9 13/16"x1/2"	2' 7-1/2"		FWO2/NW11
N04	OIL OUTLET TO PUMP	1	8"	CLASS 150	SO-RF	SCHED.40S		6' 8-3/4"		FWO2/NW01
N05A N05B	STEAM INLET TO COILS	2	2"	CLASS 300	SO-RF	SCHED.40S	5 7/8"x1/2"	6' 8-3/4"		FWO2/WO14 NW13/NW11
N06A N06B	CONDENSATE OUTLET FROM COILS	2	2"	CLASS 300	SO-RF	SCHED.10S	5 7/8"x1/2"	6' 8-3/4"		FWO2/WO14 NW13/NW11
N07	VAPOUR INLET FROM 682B.2	1	4"	CLASS 150	SO-RF	SCHED.40S	7 7/8"x1/2"	2' 7-1/2"		FWO2/NW10
N09	VAPOUR OUTLET TO 646A.2	1	12"	CLASS 150	SO-RF	SCHED.40S				FWO2/NW01
N09	SAFETY VALVE	1	4"	CLASS 150	SO-RF	SCHED.40S	7 7/8"x1/2"	2' 7-1/2"		FWO2/NW10
N10	SEAT FOR AGITATOR	1	24"	CLASS 150	SO-RF	1/2"	2'- 8"x1/2"	2'- 9-1/4"		FWO2/NW11
N11	SPARE + BLIND	1	6"	CLASS 150	SO-RF BF-RF	SCHED.40S	9 13/16"x1/2"	2' 7-1/2"		FWO2/NW10
SO2 SO3	SKIRT OPENING FOR POS. N06A AND N06B	2	4"			Std. wt.		6' 4-3/4"		NW03
N13	BOTTOM BEARING + BF	1	12"	CLASS 150	SO-RF BF-RF	SCHED.40S	1'-5 11/16"x1/2"	4' 10-1/16"		FWO2/NW10
SO1	SKIRT OPENING FOR POS.N04	1	12"			Std.wt.		6' 4-3/4"		NW03
N15	DRAIN + PLUG	1	1" NPT	CLASS 3000	FULL COUPLING				WITH PLUG	SEE BODY
N16	DRAIN + PLUG	1	1" NPT	CLASS 3000	FULL COUPLING				WITH PLUG	
L01	SEAT FOR LEVEL TRANSMITTER (DP CELL)	1	3"	CLASS 150	PAD FLANGE					SEE BODY
L02	SEAT FOR LEVEL SWITCH (HL)	1	1 1/2"	CLASS 150	SO-RF	SCHED.40S		6' 8-3/4"		FWO2/NW01
L01a	SEAT FOR LT COMPENSATION	1	3"	CLASS 150	SO-RF	SCHED.40S	6 11/16"x3/8"	2' 7-1/2"		FWO2/NW10
T01-T02	SEAT FOR TEMPERATURE TRANSMITTER	2	3/4"NPT	CLASS 3000	HALF COUPLING					NW04
P01	SEAT FOR PRESSURE TRANSMITTER	1	1/2"NPT	CLASS 3000	FULL COUPLING					NW04
M01-M03	MANHOLE DIA 600 WITH VERTICAL DAVIT ARM	3	24"			1/2"	2'-7 7/8"x1/2"	6' 9-3/4"	100170267	NW11
M04	MANHOLE DIA 600 WITH PIVOT + ID-MESH	1	24"			1/2"	2'-9 7/8"x1/2"	4' 5-15/16"	100170268	NW11
SG1	SIGHTGLASS MODEL-6	1	14"			SCHED.40S	1'-6 11/16"x1/2"		00454364	NW10
SV1-SV4	SKIRT VENT	4	4"			SCHED.40S		1'-5 9/16"		NW03

ACCESSORIES

LT1-LT2	LIFTING TRUNNIONS	2	SEE DETAIL
TT1-TT2	TAILING TRUNNIONS	2	SEE DETAIL
SL1-SL16	SUPPORTS	16	SEE DETAIL
NP1	NAMEPLATE	1	100176102
SAF1-SAF4	WARNING PLATE TYPE-4	4	00430529
SA1-SA2	SKIRT ACCESS	2	SEE DETAIL

MATERIALS / CERTIFICATES

ITEM	MATERIAL	CERT.	ITEM		MATERIAL	CERT.
SHELL/HEADS	SA-240 304L		LIFTING	PAD PLATE	SA-240 304L	
NOZZLE NECKS	SA-312 TP304L		TRUNNIONS	PIPE/PLATE	SA-106 B/SA-36	
NOZZLE FLANGES	SA-182 F304L		TAILING	PAD PLATE	SA-36	
MANHOLE NECK	SA-240 304L		TRUNNIONS	PIPE/PLATE	SA-106 B/SA-36	
MANHOLE FLANGES	SA-240 304L		INTERNALS		SA-240 304L	
INTERNAL COIL	SA-312 TP316L		SEAT FOR DRAIN, TT AND PT		SA-403 WP304L	
INTERNAL COIL FLANGES	SA-182 F316L		SEAT FOR LT		SA-240 304L	
SKIRT	SA-240 304L/SA-36		SUPPORT FOR NAMEPLATE/WARNING PLATE		SA-240 304L	
REINFORCING PADS	SA-240 304L		EXTERNAL BOLTS & NUTS (UNC)		SA-193 B7/SA-194 2H	
SEAT FOR PIPE	SA-312 TP304L		INTERNAL BOLTS & NUTS (UNC)		SA-193 B8/SA-194 8	
SIGHT GLASS PLATE	SA-240 304L		GASKET		GARLOCK 3500	
EXTERNAL STIFFENERS	SA-240 304L		SKIRT NOZZLE NECKS		SA-106 B	

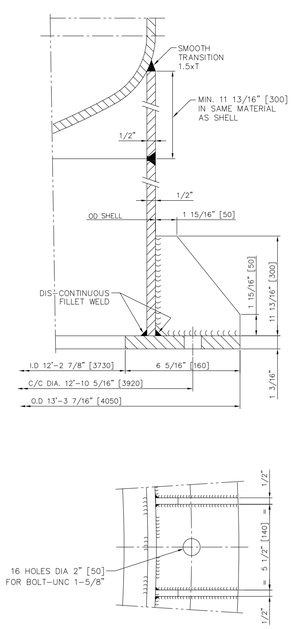
DESIGN DATA

EQUIPMENT			SHELL	INTERNAL COIL
PRESSURE	OPERATING	barg	VACUUM	9 (130.53 psig)
	DESIGN	barg	FV/3.5 (50 psig)	12 (170 psig)
	TEST	barg	5.96 (86.44 psig)	21.6 (313.28 psig)
TEMPERATURE	OPERATING	°C	110 (230° F)	175.27 (347.48° F)
	DESIGN	°C	152 (305.6° F)	193.33 (380° F)
	TEST	°C	AMBIENT	AMBIENT
MIN. DESIGN METAL TEMP.		°C	-10 (14° F)	
CORROSION ALLOWANCE	STAINLESS STEEL	mm	0	0
	CARBON STEEL	mm	1.6 (1/16")	1.6 (1/16")
RADIOGRAPHY			SPOT	SPOT
MIN. JOINT EFFICIENCY			0.85	0.85
HEAT TREATMENT			NONE	
DESIGN CODE			ASME SEC. VIII DIV.1 Ed:2019	
WIND / SEISMIC DESIGN			101 mph / SDS = 1.077g, SD1 = 0.664g (ASCE 7-16)	
FLUID			VEG OIL + BLECHING EARTH	STEAM
FLUID GROUP			NA	NA
PED 2014/68/EU			NA	
ASME "U" STAMP			YES	
WEIGHT	EMPTY	kg	~20540 (45291 lbs) /002	
	ASSEMBLED	kg	~20540 (45291 lbs) + 910 (2006 lbs)	
	INSULATION	kg	582 (1283 lbs)	
	OPERATING	kg	71811.3 (158316.817 lbs) + 910 (2006 lbs)	
	FULL OF WATER	kg	~95222 (209928.575 lbs)+ 910 (2006 lbs)	
VOLUME		m³	74.1 (2616.8 ft3)	0.35 (12.36 ft3)
HEAT TRANSFER AREA		m²		28.2 (303.5 ft2)
INSULATION	SURFACE AREA / THK.	m²/mm	97 (1044 ft2) / 50 (2")	
INSPECTED BY			ASME INSPECTOR	

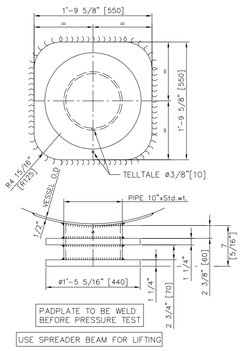
NOTE :

OPERATING FLUID DENSITY = 872.15 Kg/m3 (54.45 lbs/ft3).

SKIRT DETAIL
POS.SL1-SL16



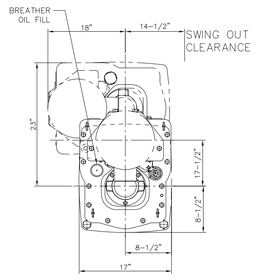
DETAIL POS. LT1-LT2-TT1-TT2
(4 OFF)



WARNING PLATE TYPE-4

MOUNTED ON MANHOLE TOP COVER WITH SUPPORT

CLEAR SPACE REQUIRED FOR AGITATOR DRIVE



REV	DATE	DESCRIPTION OF MODIFICATION	NBR OF MOD	BY
002	04.05.2022	REVISED AS MARKED	–	HHS
001	18.08.2021	ORIENTATION UPDATED.	–	NSB

Desmet Ballestra Group

DOCUMENT TYPE	ASSY			
PROJECT DESCRIPT	WORPAR			
ITEM NBR DISPOSITION	622.2 (19-D-857)	SECD	PKK	SCALE
		PROC.E	GVK	FORMAT A3
DOCUMENT DESCRIPTION	CONTINUOUS BLEACHER	PROJ.M	JCG	
		DOM	PRA	AUTHOR SKP
Ve=58.12-D=3800-H=5400-S=28.2		DATE 24.04.2021	DRAWING NUMBER 100176100	REVISION 002

AO(841 x 1189)

IF IN DOUBT, ASK DO NOT SCALE !

CAD DRWG. DO NOT MODIFY