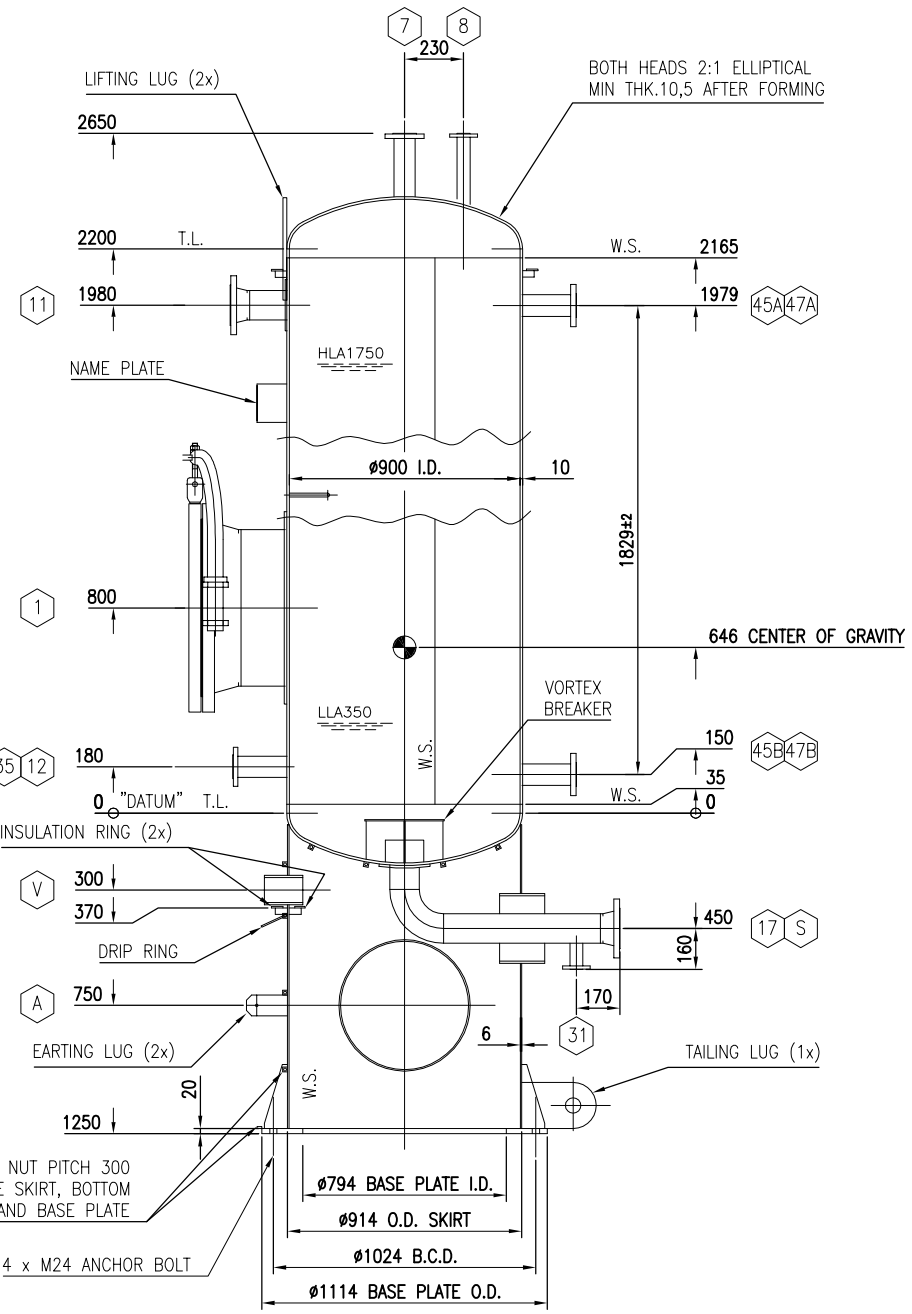
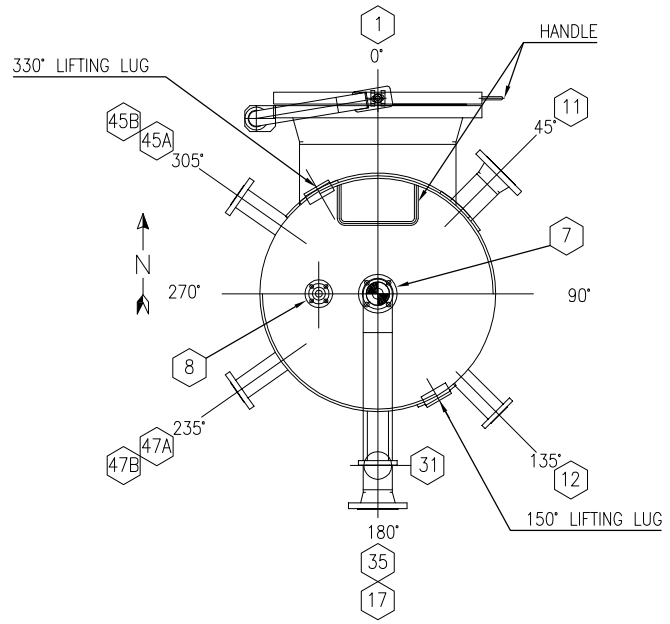
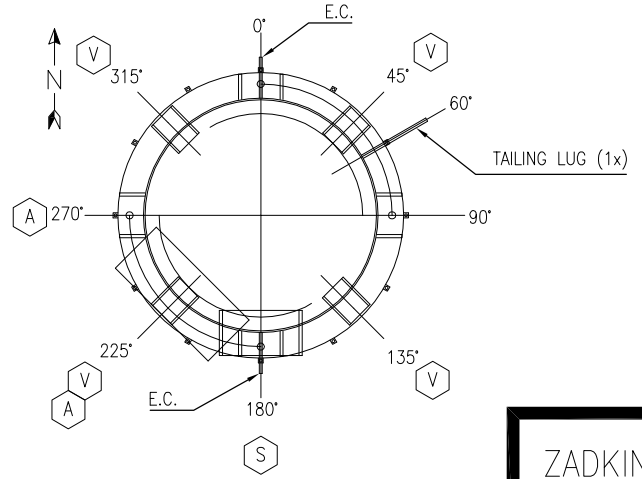
Tolerances for untoleranced machining measures:							
1 –6	–30	–120	–400	–1000	–2000	–4000	–8000
±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
Otherwise see: SS-ISO 2768 -mK							

Tolerances for untoleranced welding measures:
VERTICAL VESSEL SEE CLIENT SPECIFICATION
HORIZONTAL VESSEL SEE CLIENT SPECIFICATION
THICKNESS TOLERANCE ON PLATES WHERE MIN THICKNESS ARE SPECIFIED ACC. TO SS-EN 10029 CLASS C. CLASS A IS VALID FOR OTHER PLATES.





NOZZLE ORIENTATION
TOP VIEW



SKIRT ORIENTATION
TOP VIEW

TILLVERKARE: MANUFACTURER:	MARTIN LARSSON -Ett företag i Elajokoncernen- S-697 32 Pålsboda Sweden		
TILLVERKNINGSÅR MANUFACTURING YEAR	2004	TILLVERKN.NR. SERIAL NO.	66806
GRUNDMATERIAL BASIC MATERIAL	A516GR.60, A106GR.B, A105N		
TILLSATSMATERIAL WELDING MATERIAL	SEE WELD TEST LOG		
SVETSMETOD WELDING METHOD	SEE WELD TEST LOG		
BERÄKNINGSTRYCK DESIGN PRESSURE	FV. @ 177°C / 5,9 bar(g) ●		
BERÄKNINGSTEMPERATUR DESIGN TEMPERATURE	0°C / 177°C		
ARBETSTRYCK OPERATING PRESSURE	2,9 bar(g)norm./2,2 bar(g)min.		
ARBETSTEMPERATUR OPERATING TEMPERATURE	143°C norm. / 136°C min.		
PROVTRYCK VATTEN TEST PRESSURE, HYDRO	8,9 bar(g)	LUFT AIR	NA
MEDIUM MEDIUM	H_2O		
TILLSTÅND STATE	LIQUID 923 kg/m³		
VOLYM / UTV. YTA VOLUME / EXT.SURFACE	1,6 m³		
STYRKEFAKTOR WELDING FACTOR	0,85		
KORROSIONSTILLÄGG CORROSION ALLOWANCE	3 mm		
RÖNTGENUNDERSÖKNING X-RAY EXAMINATION	SPOT (SEE INSPECTION PLAN)		
VÄRMEBEHANDLING HEAT TREATMENT	NA		
SANDBLÄSTRING UTV. SANDBLASTING EXTERNAL	SA 2½	INV. INT.	SA 2
MÅLNING UTV. PAINTING EXTERNAL	●●	INV. INT.	DINITROL 25
ISOLERING INSULATION	80 mm		
BRANDSKYDD FIREPROOFING	80 mm OUTSIDE SKIRT		
BERÄKNINGSNORM DESIGN CODE	ASME VIII Div.1, Edit.2001+Add.2003 WIND CODE BKR + BSV97		
FÖRESKRIFT RULE	AFS 1999:4 Cat.IV Module G PED 97/23/EC Fluid 2 Table 2		
KONTROLLPLAN INSPECTION PLAN	K–1833		

REINFORCING PADS TO BE AIR TESTED AT 0,5 bar(g)
● STEAM OUT CONDITION: FV. / 3,5 bar(g) AT 149°C
●● ONE COATING OF ZINCETHYLSILICATE 75 µm
ONE COATING OF PURE SILICONE–ALUMINIUM 25 µm
MANHOLE, NOZZLES AND CLIPS PROTRUDING THE INSULATION
AND 50 MM UNDER THE INSULATION
ONE EXTRA COATING OF PURE SILICONE–ALUMINIUM 25 µm
SKIRT INSIDE AND OUTSIDE: ONE COATING OF ZINKETHYLSILICATE 75 µm

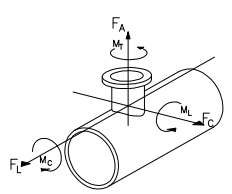
WEIGHTS & LOADING DATA AT BASE			
	ERECTION	OPERATING	HYDRO TESTING
WEIGHTS	2250 kg	5210 kg	5450 kg
MAX. WINDMOMENT	21 kNm	21 kNm	– kNm
MAX. SHEAR	7 kN	7 kN	– kN
FABRICATED WEIGHT:		1550 kg	
SHOP HYDRO TEST WEIGHT:		2950 kg	

ZADKINE

PIPING DESIGN – TOETS – VAT TEKENING

TEKENING ALLEEN TE GEBRUIKEN VOOR OPDRACHT PIPING CURSUS

Piping OP LEIDINGEN Een vak apart!



4"	5,0	5,0	5,0	1,2	2,0	1,6	7,071	2,0
2"	2,5	2,5	2,5	0,3	0,5	0,4	3,536	0,5
SIZE	kN	kN	kN	kNm	kNm	kNm	kN	kNm
	F_L	F_A	F_C	M_C	M_T	M_L	$F_{IN\ SPHERES}$	$M_{IN\ SPHERES}$
ALLOWABLE NOZZLE LOADINGS								

MARK	NO.	SIZE	RATING	SCH.	TYPE	FACING FINISH	REINF. PAD	LENGTH	SERVICE	REMARKS
S	1	12"	–	XS	–	–	–	–	SLEEVE FOR NOZZLE 17	
V	4	4"	–	80	–	–	–	–	VENT.	
A	1	500 I.D.	–	6 mm	–	–	–	–	ACCESS HOLE	
47B	1	2"	300#	–	LWN.RF	6,3–3,2µm	–	670	LEVEL TRANSMITTER	
47A	1	2"	300#	–	LWN.RF	6,3–3,2µm	–	670	LEVEL TRANSMITTER	
45B	1	2"	300#	–	LWN.RF	6,3–3,2µm	–	670	LEVEL GAUGE	
45A	1	2"	300#	–	LWN.RF	6,3–3,2µm	–	670	LEVEL GAUGE	
35	1	2"	150#	–	LWN.RF	6,3–3,2µm	–	670	UTILITY CONNECTION	
31	1	1"	150#	–	LWN.RF	6,3–3,2µm	–	SEE DWG	DRAIN	
17	1	4"	150#	120	WN.RF	6,3–3,2µm	ø215 x 10	840	LIQUID OUTLET	WITH VORTEX BREAKER
12	1	2"	150#	–	LWN.RF	6,3–3,2µm	–	670	MIN FLOW CONNECTION	
11	1	4"	150#	120	WN.RF	6,3–3,2µm	ø215 x 10	680	FEED INLET	
8	1	1"	150#	–	LWN.RF	6,3–3,2µm	–	SEE DWG	VENT	
7	1	2"	150#	–	LWN.RF	6,3–3,2µm	–	SEE DWG	VAPOR OUTLET	
1	1	24"	150#	XS	WN.RF	6,3–3,2µm	ø750 x 10	790	MANWAY	BLINDED AND WITH DAVIT
NOZZLE DATA										

Rev.	Status	Date	Project No	Revision note	Designed	Checked	Approved

Original Design by	Original Date	Original Project No	Replacing Drwg	Format	Projection	Scale
AT	2006	Zadkine	–	A2	E	1:20

Unit Name	Unit Number	Area / Zone	Equipment Number
Uitbreiding condensaat capaciteit	830	NL	V–831

Drawing Title: LD STOOM CONDENSAAT VAT, GENERAL ARRANGEMENT

Piping OP LEIDINGEN Een vak apart! Drawing Number: V–831–001

Sheet	Rev.	Status
1	0	