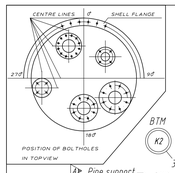
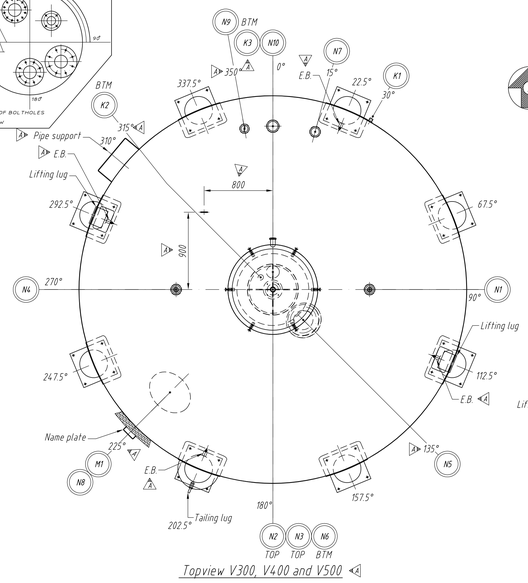
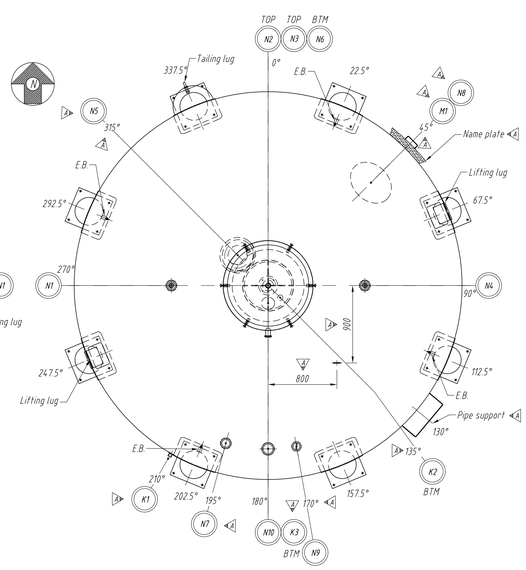
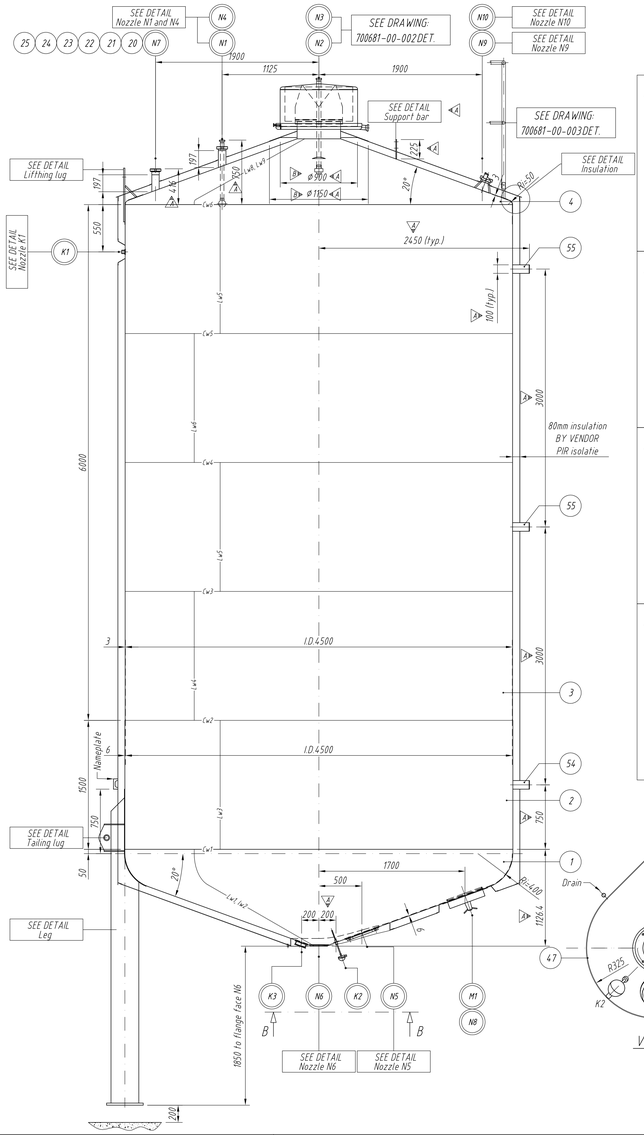


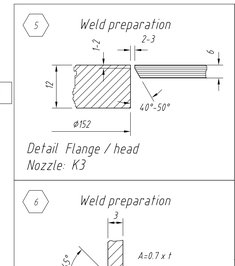


Topview V300, V400 and V500

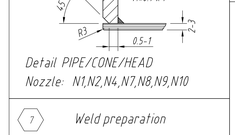


Topview V100 and V200

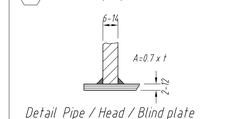




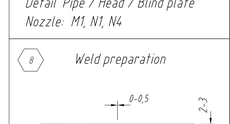
Detail Flange / head
Nozzle: K3



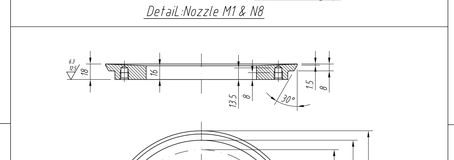
Detail PIPE/CONE/HEAD
Nozzle: N1,N2,N4,N7,N8,N9,N10



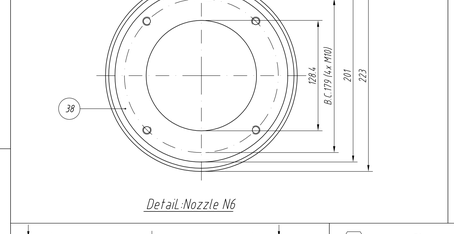
Detail Pipe / Head / Blind plate
Nozzle: M1, N1, N4



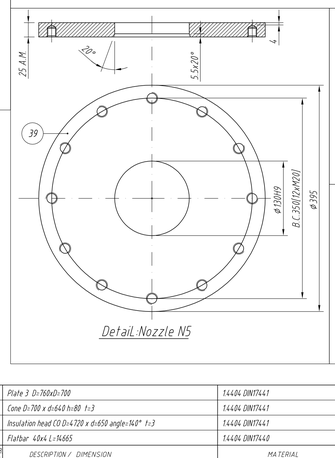
Detail Pipe / Cone / Pipe / Fitting
Nozzle: N1, N4, N7



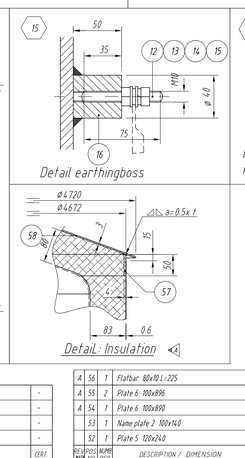
Detail Nozzle M1 & N8 | Detail Handgrip



Detail Nozzle N6

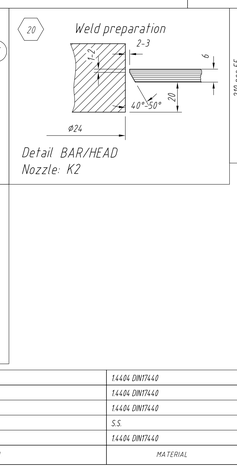


Detail Nozzle N5

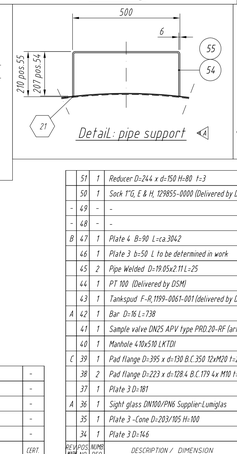


Detail earthingboss

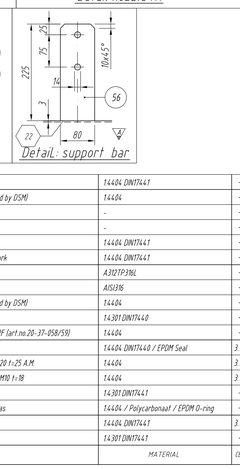
Detail Insulation



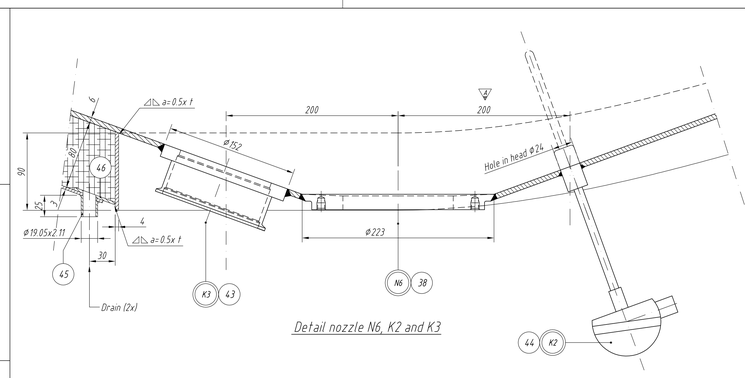
Detail BAR/HEAD
Nozzle: K2



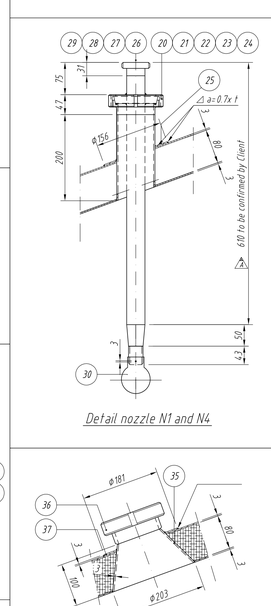
Detail : pipe support



Detail : support bar

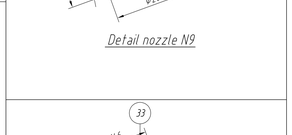


Detail nozzle N6, K2 and K3

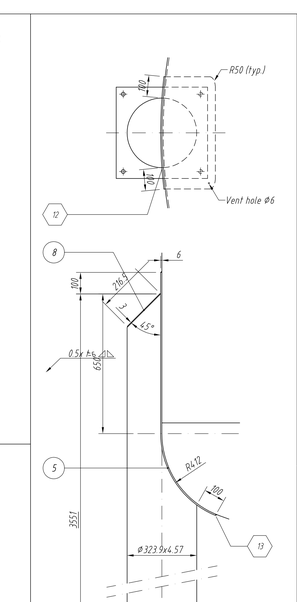


Detail nozzle N1 and N4

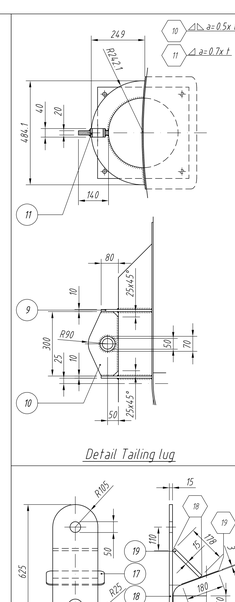
Detail nozzle N9



Detail nozzle N10

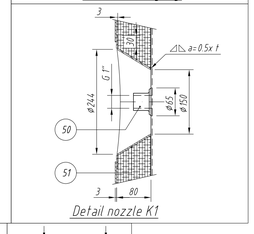


Detail Leg



Detail Tailing lug

Detail Lifthing lug



Detail nozzle K1

Mechanical data

		Vessel	-	-	
Design code		Stoomwezen rules for pressure vessels			
Inspection		DSM / GTI FIB			
Design pressure		+0.020 / -0.006	-	-	barg
Design temperature		100	-	-	°C
Operating pressure		ATM	-	-	barg
Operating temperature		90 / 3 / 2	-	-	°C
Test pressure		F.O.W. + 1mtr WK	-	-	barg
Volume		140	-	-	m³
Corrosion allowance		0	-	-	mm
Joint efficiency		-	-	-	
X-ray		10	-	-	%
Danger class		-	-	-	
Weight empty		11000	-	-	Kg
Weight full of water		151000			Kg
Welding method		See WPS			
Surface treatment	SS	Pickled and passivated, Inside surface preparation and ins. welds Ra=0.8um			
		Outside surface preparation: Foster caoting 57-73, Outside welds P and P			
	CS	-			
		-			
Tolerances according		GTI FIB tol-002			
Flange gasket contact face finish		Stock finish Ra= 6.3-12.5 um			
Bolt holes in the flanges to straddle centerlines unless otherwise shown on dwg					

Process connection

Mark	Numb Req	Service	Nom Bore	Pipe	Flange connection
N1	1	CIP connection	80 / 40	84x2/42.4x2	DIN 11864-1-Form A, Screw coupling
N2	1	Vent	500	506x3	Special
N3	1	CIP connection	40	42.4x2	DIN 11864-1-Form A, Screw coupling
N4	1	CIP connection	80 / 40	84x2/42.4x2	DIN 11864-1-Form A, Screw coupling
N5	1	Agitator	350	-	Pad flange
N6	1	Inlet / Outlet	100	-	Pad flange
N7	1	Spare	80	84x2	DIN 11864-1 blind off, Screw coupling
N8	1	Sample connection	25	-	Sample valve APV type PRD 20-HF
N9	1	Sigthglass	100	-	DIN 11851 with reducer
N10	1	Lamp	65	-	DIN 11851 with reducer

Instrument connection

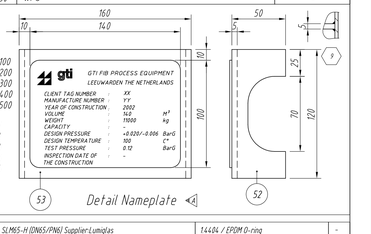
Mark	Numb Req	Service	Nom Bore	Pipe	Flange connection
K1	1	LSA (HH)	G1"	-	Sock E&H, 13985S-0000, delivery DSM
K2	1	T I A (H/L)	-	-	Welded in well hole Ø24mm, delivery DSM
K3	1	L I SA (H/L)	-	-	Tank spud, F-R,1199-0061-001, deliver DSM

Inpection connection

Mark	Numb Req	Service	Nom Bore	Pipe	Flange connection
M1	1	Manhole	500x400	510/410x12	Knudsen LKTOI 410/510

Reference document list

Document no.	Document name	Client document no.
700681-00-002	Detail nozzle N2 and N3	-
700681-00-003	Detail railing and ladder	-
700681-00-200	Strength calculations	-
700681-00-250	WPS	-



Detail Nameplate

RE VI SION	POS NO	NUMB REQ	DESCRIPTION / DIMENSION	MATERIAL	CERT.
A	33	1	Light SLM65-H (DN65/PN65) Supplier:Lumiglas	1.4404 / EPDM O-ring	-
A	32	1	Sight glass DN65/PN6 Supplier:Lumiglas	1.4404 / Polycarbonaat	-
B	31	1	Plate 3 -Cone D1:169/70 H1:100	1.4404 DIN17441	3.1B
A	30	1	Spray ball 1"-OTTA with locking pin Vendor: Tuchenhagen	1.4571	-
29	1		Nipple weld 1" BSP	1.4404	-
28	1		Red. conc. D1=42.4xD1=33.7 - 2x2 DIN2616	1.4404 DIN2609	-
C	27	2	Male part DN40 DIN11864-1-Form A	1.4404	-
A	26	1	Pipe Welded D=42.4x2 L=579	A312TP316L	3.1B
C	25	3	Plate 3 D=156	1.4301 DIN17441	-
24	3		Nut DN80 DIN11864-1-Form A	1.4404	-
23	3		Liner blank DN80 DIN11864-1-Form A	1.4404	-
A	22	3	Gasket DN80 DIN11864-1-Form A	EPDM	-
21	3		Male part DN80 DIN11864-1-Form A	1.4404	-
C	20	3	Pipe Welded D=84x2 L=200	1.4436 DIN 17457	3.1B
19	2		Plate 15 180x210	1.4404 DIN17440	3.1B
18	2		Plate 15 210x625	1.4404 DIN17440	-
17	4		Plate 3 180x270	1.4404 DIN17441	3.1B
16	4		Bar D=40 L=50	1.4404 DIN17440	-
15	4		Studbolt M10x75	Brass	-
14	4		Springwasher M10 DIN127B	Brass	-
13	8		Washer M10 DIN125A	Brass	-
12	8		Nut M10 DIN934	Brass	-
11	1		Bar D=70 x d=50 L=40	1.4404 DIN17440	-
10	1		Plate 20 140x300	1.4404 DIN17440	-
9	2		Plate 10 249x484	1.4404 DIN17440	-
8	8		Plate 3 276x316	1.4404 DIN17440	-
7	8		Plate 25 425x425	1.4404 DIN17440	-
6	8		Pipe Welded D=323.9x4.57 L=3551	A312TP304/316L	-
5	8		Plate 6 525x1135	1.4404 DIN17441	3.1B
4	1		Head CO id=4500 id=310 Ri=50 h=0 ang=20 t=3	1.4404 DIN17441	3.1B
3	1		Plate 3 6000x14.147	1.4404 DIN17441	3.1B
2	1		Plate 6 1500x14.156	1.4404 DIN17441	3.1B
1	1		Head CO id=4500 id=230 Ri=400 h=50 ang=20 t=6	1.4404 DIN17441	3.1B

RE VI SION	POS NO	NUMB REQ	DESCRIPTION / DIMENSION	MATERIAL	CERT.
A	60	1	Plate 3 D=760xD1=700	1.4404 DIN17441	-
A	59	1	Cone D=700 x d=640 h=80 t=3	1.4404 DIN17441	-
A	58	1	Insulation head CO D=4720 x d=650 angle=140° t=3	1.4404 DIN17441	-
A	57	1	Flatbar 40x4 L=14665	1.4404 DIN17440	-

RE VI SION	POS NO	NUMB REQ	DESCRIPTION / DIMENSION	MATERIAL	CERT.
A	56	1	Flatbar 80x10 L=225	1.4404 DIN17440	-
A	55	2	Plate 6 100x896	1.4404 DIN17440	-
A	54	1	Plate 6 100x890	1.4404 DIN17440	-
	53	1	Name plate 2 100x149	S.S.	-
	52	1	Plate 5 120x240	1.4404 DIN17440	-

RE VI SION	POS NO	NUMB REQ	DESCRIPTION / DIMENSION	MATERIAL	CERT.
	51	1	Reducer D=244 x d=150 H=80 t=3	1.4404 DIN17441	-
	50	1	Sock 1"G, E & H, 129855-0000 (Delivered by DSM)	1.4404	-
-	49	-	-	-	-
-	48	-	-	-	-
B	47	1	Plate 4 B=90 L=ca.3042	1.4404 DIN17441	-
	46	1	Plate 3 b=50 L to be determined in work	1.4404 DIN17441	-
	45	2	Pipe Welded D=19.05x2.11 L=25	A312TP316L	-
	44	1	PT 100 (Delivered by DSM)	AISI316	-
	43	1	Tankspud F-R,1199-0061-001 (delivered by DSM)	1.4404	-
A	42	1	Bar D=16 L=738	1.4301 DIN17440	-
	41	1	Sample valve DN25 APV type PRD 20-RF (art.no.20-37-058/59)	1.4404	-
	40	1	Manhole 410x510 LKTOI	1.4404 DIN17440 / EPDM Seal	3.1B
C	39	1	Pad flange D=395 x d=130 B.C.350 12xM20 t=25 A.M.	1.4404	3.1B
	38	2	Pad flange D=223 x d=128.4 B.C.179 4x M10 t=18	1.4404	3.1B
	37	1	Plate 3 D=181	1.4301 DIN17441	-
A	36	1	Sight glass DN100/PN6 Supplier:Lumiglas	1.4404 / Polycarbonaat / EPDM O-ring	-
	35	1	Plate 3 -Cone D=203/105 H=100	1.4404 DIN17441	3.1B
	34	1	Plate 3 D=146	1.4301 DIN17441	-

DSM
DSM Gist B.V. Delft - Holland

Code no.	Building	S1	Dest.	S2	Year
	1	5	9	5	4 0 5 2 0 0 2

Project no. PROJ-NO | Autocad Size A0

Drawing no. | Location | D. | Serial no. | Iss.
0 0 1 W 5 4 2 8 6 –

AS BUILT STATUS FIB	AS BUILT STATUS CLIENT	AS BUILT STATUS INSP. AUTHORITY
0	A	B	C 02-10-2002	D	E

SCALE	1:25	DATE	REMARKS: Total 5 vessels required
DRAWN	W.Geertsma	22-03-2002	Numbers in partlist are for one vessel
CHECKED	T. de Jong	02-10-2002	-

PROJECT: Alliance Masterplan (Cluster E)
–

SUBJECT: Vloeibare Gist ketel V100/200/300/400/500
General arrangement

REVISED: 18-05-2002 WG; 29-05-2002 WG; 04-06-2002

ITEM NO. 70068101-05
FORM A0 | REVNO –
DRG NO. 700681ENGNL0WG
SHEET NO. 01-001

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