INDOOR

ASME

Section VIII, Div.1

thorospherical head: DIN 28011

wall thickness:	5,0mm
min. wall thickness:	3,7mm
inside radius:	2610mm
cyl. height:	20
welding factor: v=	0,85
material:	DIN 10028-7 1D

cone with knuckle

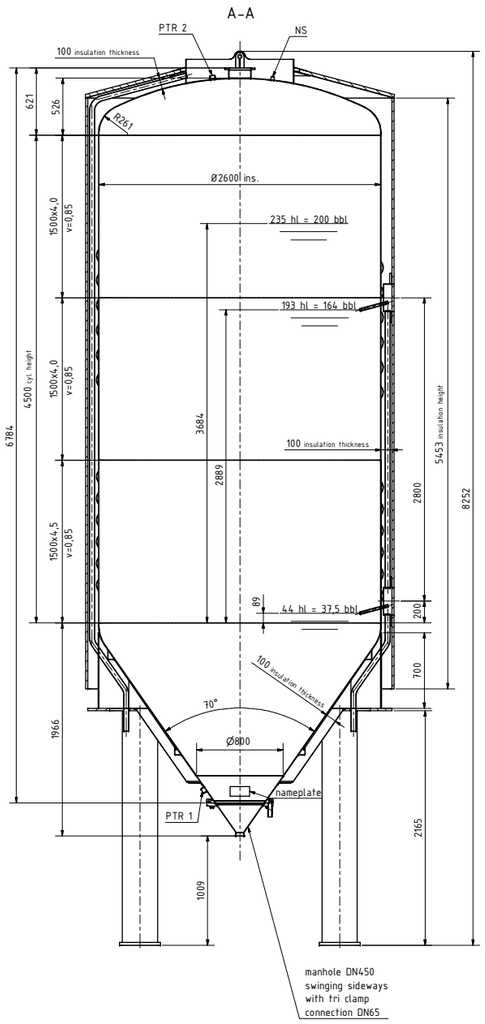
wall thickness:	6,0mm
min. wall thickness:	4,8mm
inside radius:	300mm
cyl. height:	30mm
welding factor: v=	0,85
material:	DIN 10028-7 1D

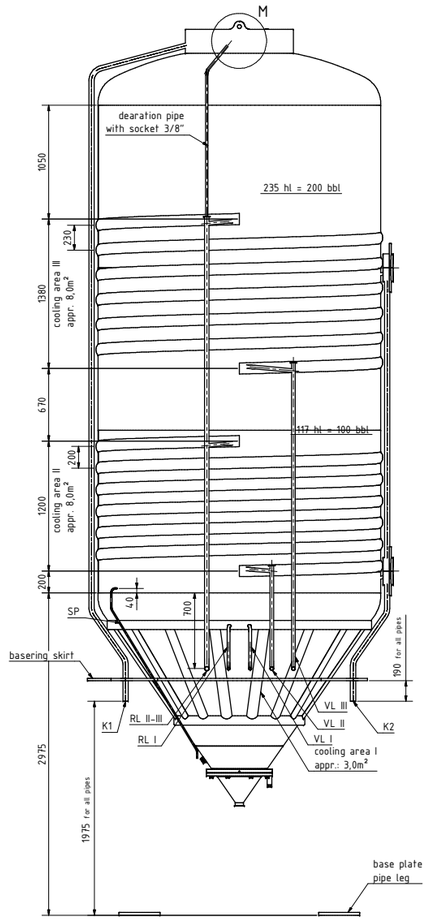
skirt

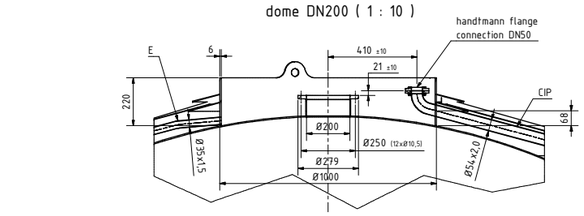
wall thickness:	8,0mm
inside diameter:	2600mm
cyl. height:	700mm
material:	S235JR

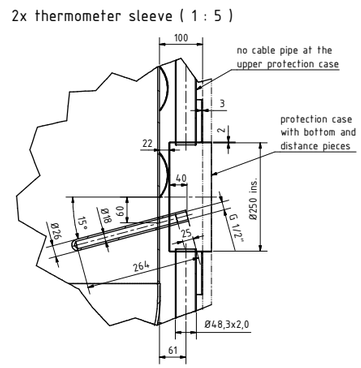
basering

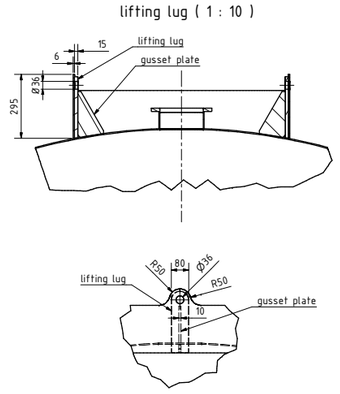
inside diameter:	2808mm
outside diameter:	2408mm
height:	20mm
material:	S235JR

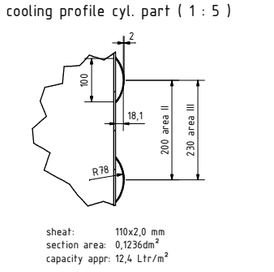




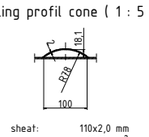








sheat: 110x2,0 mm
section area: 0,1236dm²
capacity appr: 12,4 Ltr/m²



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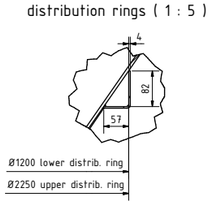

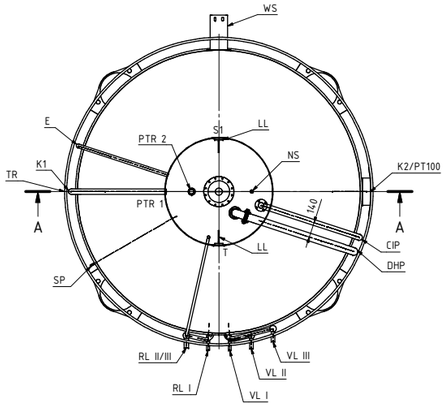

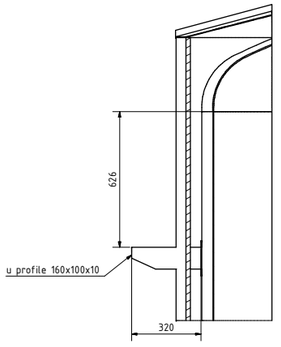

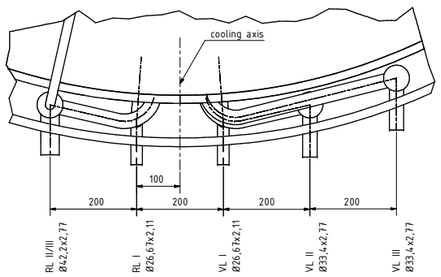

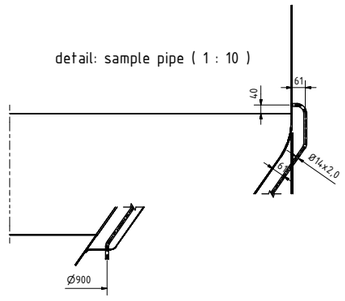

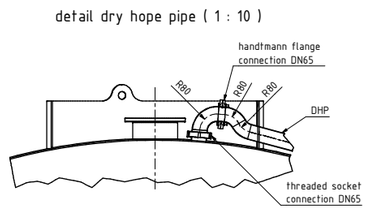

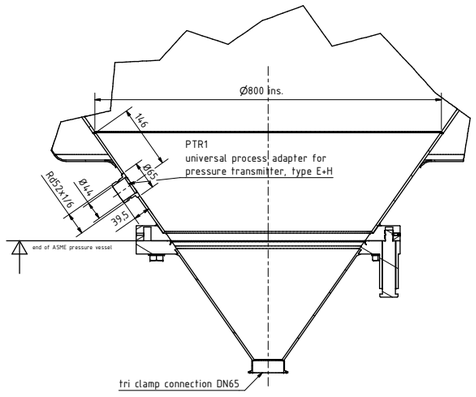

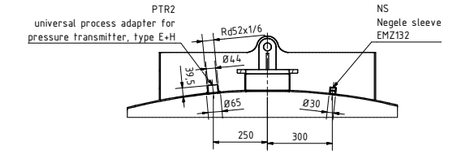

NB: according log. of NB numbers
NB SERIAL NUMBER

CERTIFIED BY: ZIEMANN

U

NAME OF MANUFACTURER: ZIEMANN + BAUER GmbH

S/N: 14300129/2000_8633

YEAR BUILT: 2012

W

RT 4

TAG No.:

	M.A.W.P kPa	at °C	M.D.M.T °C	at kPa
VESSEL	150	30	-10	150
JACKET I	300	30	-10	300
JACKET II	300	30	-10	300
JACKET III	300	30	-10	300
JACKET IV				
	M.A.E.W.P		M.D.M.T	
VESSEL	3	30	-10	3

pipes and nozzles

Mark.	Description	DN	Size	DIN	Remarks
CIP	CIP-pipe	50	Ø54x2,0	11850	flanged at the top
E	drain pipe	32	Ø35x1,5	1127	dome
K1	cable pipe 1	40	Ø48,3x2,0	1127	dome
K2	cable pipe 2	40	Ø48,3x2,0	1127	PT100
VL I	cooling inlet I	20	Ø26,67x2,11	ASTM A 312	cone cooling
VL II	cooling inlet II	32	Ø33,4x2,77	ASTM A 312	cyl. Part
VL III	cooling inlet III	32	Ø33,4x2,77	ASTM A 312	
RL I	cooling outlet I	20	Ø26,67x2,11	ASTM A 312	cone cooling
RL II-III	cooling outlet II	40	Ø42,2x2,77	ASTM A 312	cyl. Par
SP	sample pipe	10	Ø14x2,0	11850	
DHP	dry hopping pipe	65	Ø70x2,0	11850	flanged at the top
PT100	thermometer sleeve		G ½"		
PTR1	pressure transmitter		UNI D65		cone
PTR2	pressure transmitter		UNI D65		top head
NS	Negele sleeve		EMZ132		for high level probe
S1	swing cone hinge				
T	name plate				
WS	walkway support				
LL	lifting lug				
TR	transport position				

Tank explanation:

Working conditions:

	tank	cooling
design overpressure	1,3 bar	3,0 bar
test overpressure	1,69 bar	3,9 bar
vacuum resistance	300mm WC	
design temperature	-10°C/+30°C	-10°C/+30°C
earthquake loads	max. 0,6 x g	
location	indoor	

cooling medium: Glycol -4,0°C

Surfaces:

top head: the complete inner surface ground Ra <= 0,4µm
cyl. Part: cold rolled material according DIN EN 10028-7
cone: the complete inner surface ground Ra <= 0,4µm

welding seams: internal welds ground Ra max. 0,8 µm
external welds metallic bright

The tanks are completely pickled inside and outside and passivated.

mild steels S235JR/S355JO: - skirt primed with 2 coats of anticorrosive paint
- pipe legs primed with 2 coats of anticorrosive paint
- top coat primed with colour RAL 5017

Tank insulation: HR Polyurethane foam, CFC-free, min. 40 kg/m³

Insulation thickness
top head: 100mm
cyl. Part: 100mm
cone: 100mm

The tanks protected 2-times by anticorrosive paint acc. Ziemann standard

Insulation cladding:

top head:	even sheet of aluminium	t=1,0mm
	Execution as 1-layer conical roof	
cyl. Part:	trapezoidal sheet of aluminium (20/125), blank	t=0,8mm
cone:	stainless steel, tightly welded, outer surface pickled	t=2,0mm

DESIGN CHECKED AGAINST ASME CODE EDITION 2010
SECTION VIII - DIVISION I
CORROSION ALLOWANCE: NONE
MATERIAL SA 240 GR 304 / SECTION II PART A
HEAT TREATMENT: NONE
RADIOGRAPHIC EXAMINATION ACCORDING DRAWING No.: 1020562 Rev.0
HYDROTEST ACCORDING UG - 99
CHARPY IMPACT TEST EXEMPTED AS PER UHA - 51(d)
TOLERANCES ACCORDING UG 80 - 81, UW 33, UW 35
OUT OF ROUNDNESS <= 0,5%
DIMENSION: SI - UNITS
CODE CASES: NONE
CRN NUMBER: NONE
NB STAMP: 155 - 160

HORIZONTAL PROJECTION

Orientation of sockets exclusively as determind by the general layout

Serial number: 8633-14300129/2000 to 8638-14300129/2000 | Year of manufacture: 2012

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Index	Revision	Date	Name
C	description field	09.02.2012	PS
B	dry hope pipe	08.02.2012	PG
A	tri clamp connection	02.02.2012	BR
00	Ersterstellung	13.12.2011	ALAN

	Date	Name	Weight:
Drawn	10.01.2012	PAULUS	Material: SA240 GR.304
Checked			Commission:
Signed			Project: 14300129_2000

Consider protection mark according to DIN 34

Client: GOLDEN ROAD BREWERY LA/ USA

Description: Fermentation and storage tank
Ø2600MM INS.
TI = 235HL = 200BBL

Scale: 1 : 20 | Drawing: 1019839 | Index: C | Sheet: 1/1 | A0