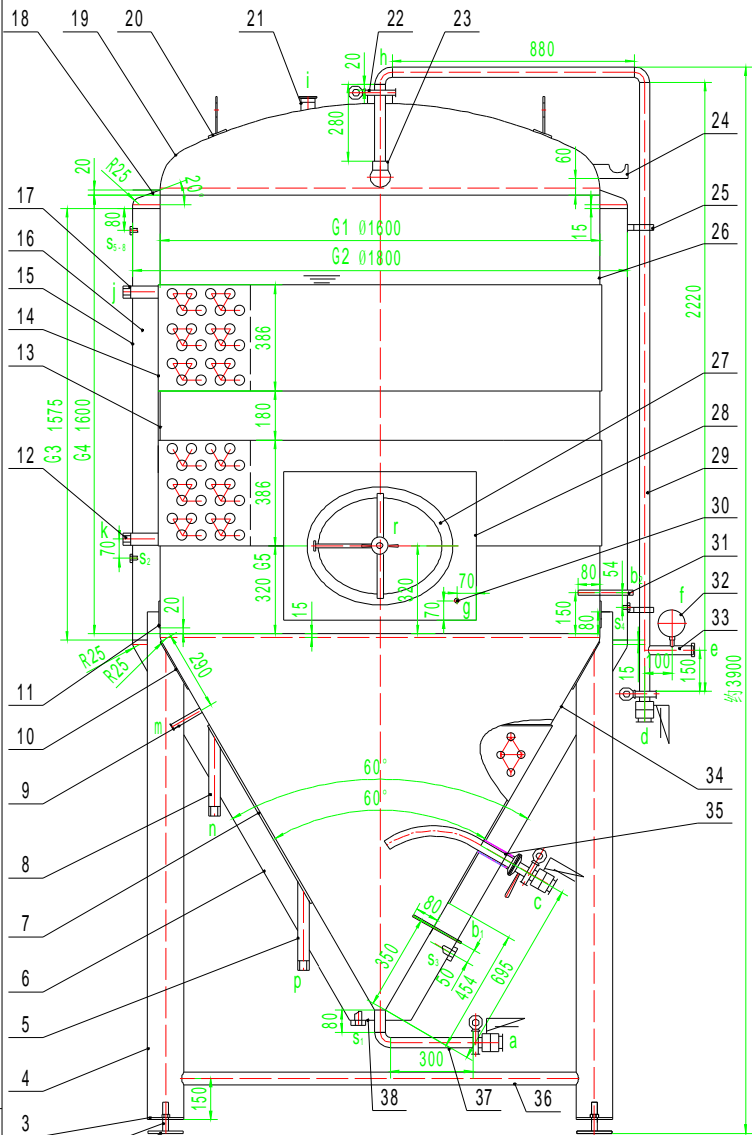


1-12-350-1



### Pipe port list

Symbol	Nominal size	Face type	Usage
a	1.5" (038)	Tri-clamp	Material port
b <sub>1,2</sub>	014		Thermometer port
c	1.5" (038)	Tri-clamp	Beer outlet
d	1.5" (038)	Tri-clamp	CIP port
e	DIN25	Knuckle male thread	Pressure regulating valve port
f	M20x1.5	Female thread	Pressure gauge port
g	0.75" (019)	Tri-clamp	Bimetal thermometer port
h	3.5" (089)	Tri-clamp	CIP casing pipe port
i	2" (051)	Tri-clamp	Breather valve port
j	G1	Female thread	Body coolant outlet
k	G1	Female thread	Body coolant inlet
m	0.75" (019)	Tri-clamp	Sample valve port
n	G1	Male thread	Bottom cone coolant outlet
p	G1	Male thread	Bottom cone coolant inlet
r	450x350		Side manway
s <sub>1,2</sub>	016	Special joint	Wire port

### Key Size List

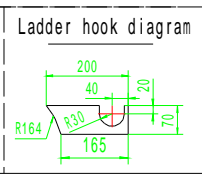
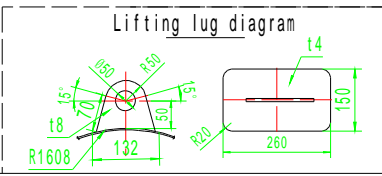
Symbol	Name	Key Size
G1	Inner tank diameter	01600
G2	Cladding body diameter	01800
G3	Inner tank body height	H=1575
G4	Cladding body height	H=1600
G5	Tank body dimple plate position	H=320

Pipe ports should keep off from welding line.

### Technical Requirement

- Total volume: 4630L, effective volume: 30BBL, cooling area: 5.6 m<sup>2</sup>;
- Argon arc welding.
- After finish, do water pressure test on inner tank and dimple plate. Testing pressure is 0.2MPa.

序号	代号	名称	数量	材料	单件重量	总计重量	备注
38		Cladding bottom seal 0225×3	1	06Cr19Ni10	1	1	
37		Material pipe 038×1.5	1	06Cr19Ni10	0.5	0.5	
36		Leg tension brace 051×2 L=980	4	06Cr19Ni10 砂光	5.6	22.4	
35		Beer outlet	1	06Cr19Ni10	3.5	3.5	
34		Inner tank bottom cone t3	1	06Cr19Ni10	97	97	
33		Pressure regulating valve joint 028x1.5 L=170	1	06Cr19Ni10	0.2	0.2	
32		Pressure gauge and seat 0100/M20x1.5	1	06Cr19Ni10	0.3	0.3	
31		Thermometer well 014x2 L=200	2	06Cr19Ni10	0.1	0.2	
30		Bimetal thermometer port 019×1.5 L=50	1	06Cr19Ni10	0.1	0.1	
29		CIP pipe 038×1.5	1	06Cr19Ni10	3.8	3.8	
28		Horn mouth W700 H540	1	06Cr19Ni10	4	4	
27		Side manway 450×350 PNO.25	1	06Cr19Ni10	9.5	9.5	
26		Inner tank t3	1	06Cr19Ni10	193	193	
25		Pipe support 038	2	06Cr19Ni10	0.1	0.2	
24		Ladder hook t8	2	06Cr19Ni10	0.9	1.8	
23		Rotary spray ball (G1 <sub>1/4</sub> threaded) 063	1	06Cr19Ni10	0.5	0.5	
22		Tri-clamp 089	1 set	06Cr19Ni10	1	1	
21		Tri-clamp end 051x1.5 L=50	1	06Cr19Ni10	0.1	0.1	
20		Lifting lug and baseplate t4/t8	2	06Cr19Ni10	2.6	5.2	
19		Dome head THA1600×3	1	06Cr19Ni10	64	64	
18		Cladding top seal t3	1	06Cr19Ni10	20.5	20.5	
17		Body coolant outlet 038×4.5 L=130	1	06Cr19Ni10	0.7	0.7	
16		Insulation material	1.5m <sup>3</sup>	Polyurethane	55.6	83.4	
15		Cladding t2	1	06Cr19Ni10	143	143	
14		Tank body dimple plate XI t1.2	2	06Cr19Ni10	18.6	37.2	
13		Stream guide belt 180×120×1.5	1	06Cr19Ni10	0.4	0.4	
12		Body coolant inlet 038×4.5 L=130	1	06Cr19Ni10	0.7	0.7	
11		Leg reinforcing plate 200×100×3	4	06Cr19Ni10	0.5	2	
10		Leg reinforcing plate 200x200x3	4	06Cr19Ni10	0.9	3.6	
9		Sample valve port 019×1.5 L=120	1	06Cr19Ni10	0.1	0.1	
8		Bottom cone coolant outlet 033×4 L=330	1	06Cr19Ni10	1	1	
7		Bottom cone dimple plate t1.2	1	06Cr19Ni10	21	21	
6		Cladding bottom cone t2.5	1	06Cr19Ni10	106	106	
5		Bottom cone coolant inlet 033×4 L=330	1	06Cr19Ni10	1	1	
4		Leg 0133×3 L=1855	4	06Cr19Ni10	19	76	
3		Leg baseplate 0124x5	4	06Cr19Ni10	0.5	2	
2		Adjustable bolt M24×100	4	06Cr19Ni10	0.5	2	
1		Leg bottom plate 0135x5	4	06Cr19Ni10	0.5	2	



Zhongde Equipment Co., Ltd. Shandong			材料名称	06Cr19Ni10
			项目名称	2013-149
			设计阶段	
负责	签名	日期	30BBL Fermenter	1-12-350-
设计				
校核				
审核				
批准			重量/kg	910.900
			比例	1:12.5
			共 页	第 页

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