



Pipe port list

Symbol	Nominal size	Face type	Usage
a	2 ^s (051)	Tri-clamp	Wort collector outlet
a ₁₋₄	032/025		Wort collector branch outlet
b	1.5 ^s (038)	Tri-clamp	Back wash inlet
b ₁₋₈	025		Back wash branch inlet
c	DN300		Spent grain outlet
d	025		Sight lamp wire port
e	G1/2	Male thread	Liquid level tube port
f	G1 1/4	Female thread	Condensate water outlet
g	G1/2	Female thread	Safety component joint
h	1.5 ^s (038)	Tri-clamp	Return port
i	0102	Tri-clamp	Material inlet
j	1.5 ^s (038)	Tri-clamp	CIP port
k	1.5 ^s (038)	Tri-clamp	Sparge inlet
m	DN80		Sight lamp
n	0350		Vent port
p	DN500		Manway
r	G1 1/4	Female thread	Steam inlet
s	G1 1/4	Male thread	Secondary condensate water outlet
t	014		Thermometer well

Key Size List

Symbol	Name	Key Size
G1	Inner tank diameter	02100
G2	Cladding body diameter	02260
G3	Inner tank body height	H=1160
G4	Cladding body height	H=1100

Technical Requirement

- Nominal volume: 32.4BBL, effective volume: 30BBL, heat exchanging area: 3m²;
- Dome head and inner tank inside are polished, roughness is ≤0.6μm. Cladding is polished. Welding line is fine polished.
- Argon arc welding.
- After finish, fill the tank with water to test leakage, make sure mechanical parts run stably and hydro-cylinder lift stably.

44	Knuckle thread slipknot 051	8 sets	06Cr19Ni10	0.5	4	
43	Leg tension brace 051×2 L=1005	4	06Cr19Ni10	2.5	10	
42	Bach wash device	1	06Cr19Ni10	2	2	
41	Spent grain device DN300	1	06Cr19Ni10	15	15	
40	Liquidometer joint 021×3.5 L=130	1	06Cr19Ni10	0.2	0.2	
39	Support joist steel 10#	1	06Cr19Ni10	200	200	
38	Sieve support width 25 t3	1	06Cr19Ni10	3.8	3.8	
37	Tank body condensate water outlet 048×4.5 L=110	1	06Cr19Ni10	0.3	0.3	
36	Thermoemter well 08×1 L=150	1	06Cr19Ni10	0.1	0.1	
35	Plow system	1	06Cr19Ni10	12	12	
34	Body safety component joint 027×4 L=110	1	06Cr19Ni10	0.2	0.2	
33	Body steam branch inlet 025×2 L=100	4	06Cr19Ni10	0.15	0.6	
32	Wire pipe 025×1.5	1	201 mirror	1.8	1.8	
31	Top dome head THA2100x4	1	06Cr19Ni10	155	155	
30	Baffle plate 080 t2	1	06Cr19Ni10	0.2	0.2	
29	Return pipe 038×1.5 L=80	1	06Cr19Ni10	0.5	0.5	
28	Material inlet 0102×2 L=150	1	06Cr19Ni10	0.5	0.5	
27	CIP pipe 038×1.5 L=1710	1	06Cr19Ni10	3	3	
26	Sparge ring 038×1.5	1	06Cr19Ni10	4	4	
25	Sparge inlet 038×1.5 L=280	1	06Cr19Ni10	0.3	0.3	
24	Sight lamp DN80 24V	1	06Cr19Ni10	2	2	
23	Steam exhaust tube 0350×1.5	1	06Cr19Ni10	1.3	1.3	
22	Water retaining ring 0273×2 L=50	1	06Cr19Ni10	0.7	0.7	
21	Retainer ring width80 t2	1	06Cr19Ni10	1.6	1.6	
20	Sixed support width 20 t2	3	06Cr19Ni10	0.5	1.5	
19	Rotary spray ball 063 G1-1/4 threaded	2	06Cr19Ni10	0.1	0.2	
18	Manway (with DN200 sight glass) DN500	1	06Cr19Ni10	6.5	6.5	
17	Secondary condensate water pipe 019×1.5	1	201 mirror	1.7	1.7	
16	Cladding top seal t3	1	06Cr19Ni10	13	13	
15	Cladding body t2	1	06Cr19Ni10	151	151	
14	Insulation material	0.7m ³	Rock wool	63.5	44.45	
13	Inner tank t3	1	06Cr19Ni10	191	191	
12	Body steam coil 038×2 L=6900	1	06Cr19Ni10	12.6	12.6	
11	Body steam inlet 042×3.5 L=85	1	06Cr19Ni10	0.3	0.3	
10	Tank body dimple plate t1.5	1	06Cr19Ni10	38	38	
9	Milled sieve	3.5m ²	06Cr19Ni10	12	42	
8	Tank body bottom plate t4	1	06Cr19Ni10	130	130	
7	Leg baseplate 190×190×8	4	06Cr19Ni10	2	8	
6	Wort collecting device	1	06Cr19Ni10	8	8	
5	Broken flange	8	06Cr19Ni10	1	8	
4	Leg 0133×3	4	06Cr19Ni10	23	92	
3	Leg baseplate 0124x6	4	06Cr19Ni10	0.5	2	
2	Adjustable bolt M24×100	4	06Cr19Ni10	0.5	2	
1	Leg bottom plate 0135x6	4	06Cr19Ni10	0.5	2	

序号/代号	名称	数量	材料	备注
			材料名称	06Cr19Ni10
			项目名称	2013-149
			设计阶段	
职责	签名	日期	30BBL Mash/ lauter Tun	
设计				
校核				
审核				
批准			重量/kg	1173.350
		比例	1:13	共 页
				第 页

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