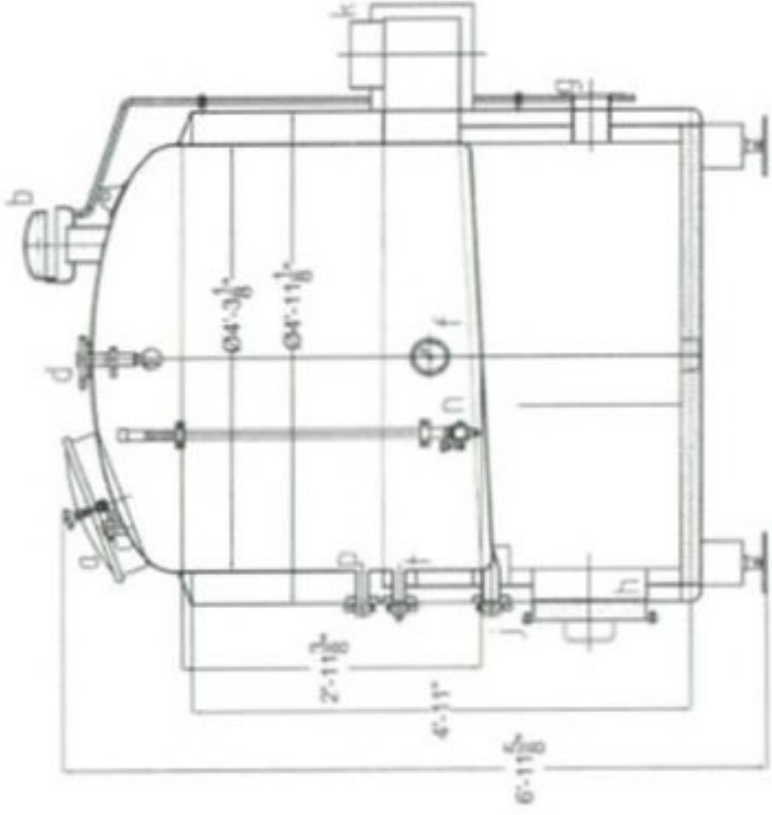


sewage

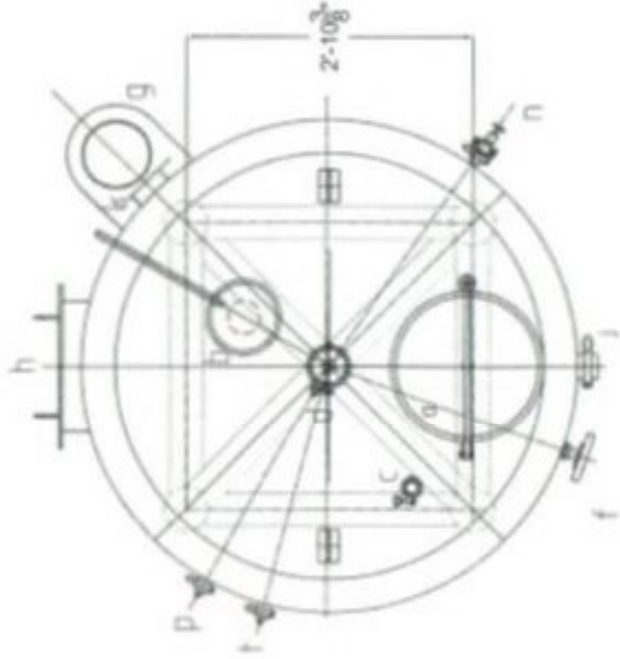
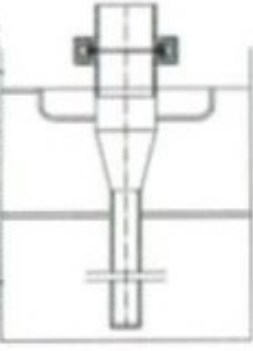
Inlet and outlet



Level gauge



Temperature sensor port



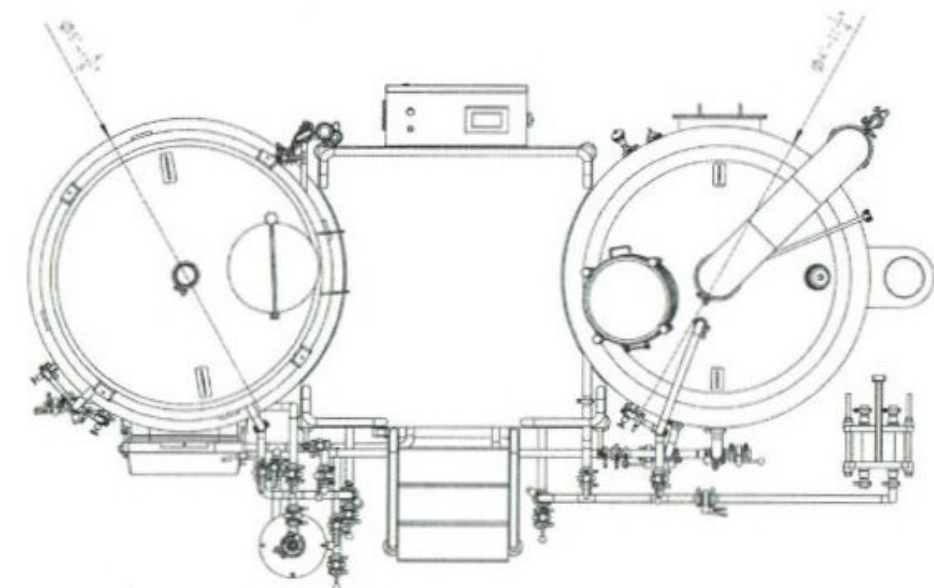
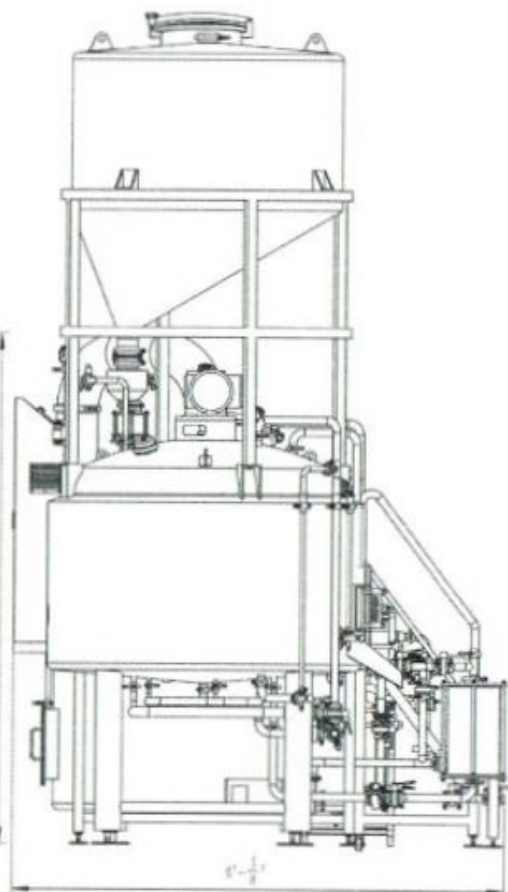
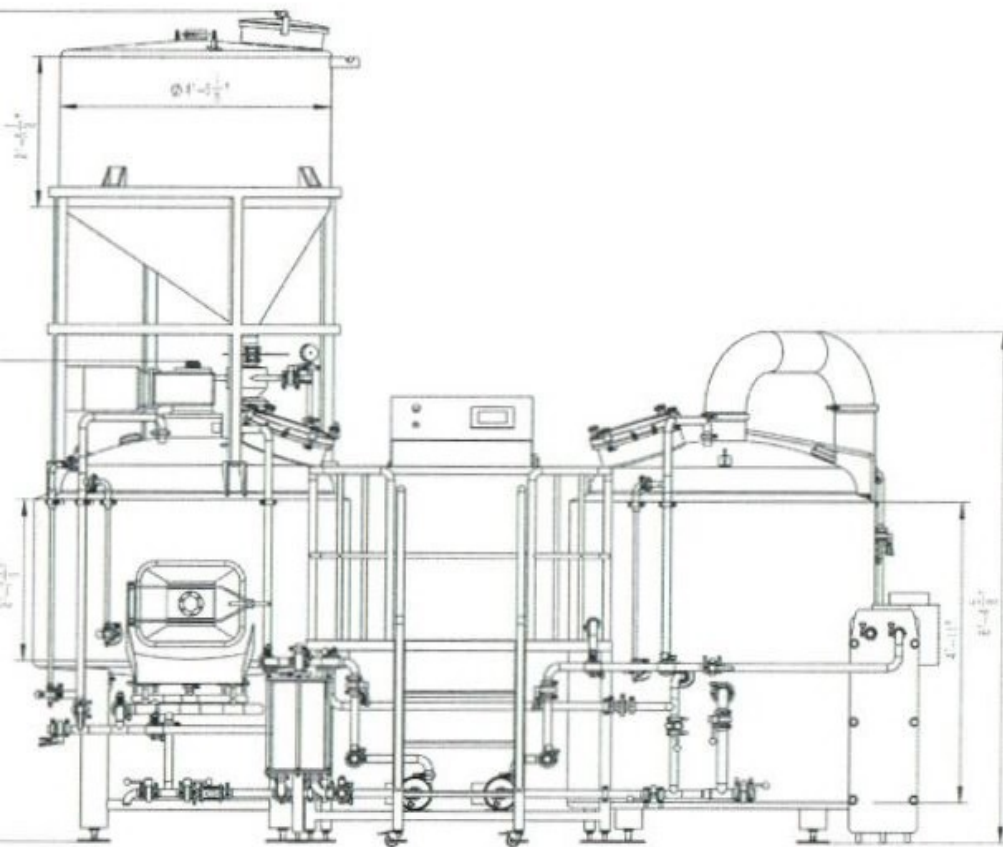
1	(Thermocouple)	#38.1X1.5	Clamp
2	(Dry bag vent)	#38.1X1.5	Clamp
3	(Airway)		Weld
4	(outlet)	#38.1X1.5	Clamp
5	(Moisture nipple)	#400	Weld
6	(Barrel)		Flange
7	(Thermometer)	#38.1X1.5	Clamp
8			
9	(GCP inlet)	#38.1X1.5	Clamp
10	(Water inlet)	#38.1X1.5	Clamp
11	(connection)		Clamp
12	(Barrel)	#430	Weld
NUM	DESCRIPTION	CONNET SIZE	REMARKS

Design	Standardize
execute	
Technology	Approval

ALPHA
INDUSTRIAL SYSTEMS

HLT-1008L

KES



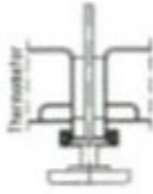
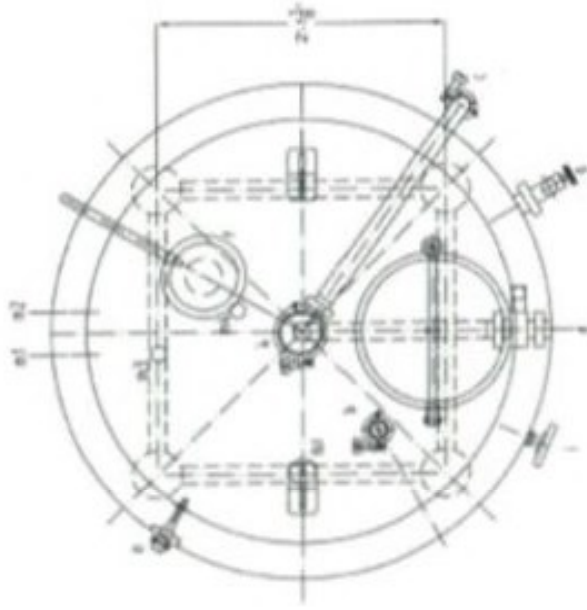
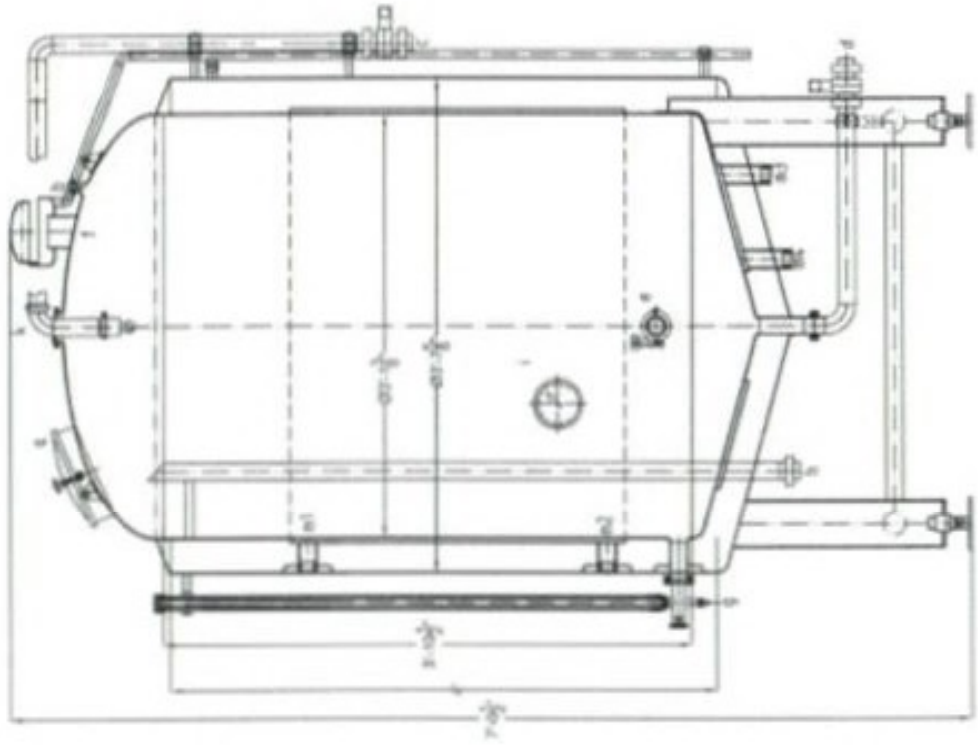
DESIGN DATA SHEET

VESSEL CLASS	PARAMETERS		
		ML	KW
TANK NAME			
WORKING TEMPERATURE		0-110°C	0-110°C
DESIGN TEMPERATURE		0-110°C	0-110°C
MEDIUM	BEER	BEER	BEER
MATERIAL	AISI304	AISI304	AISI304
GROSS VOLUME BBL		13.14	12.88
GROSS VOLUME(NO DOME) BBL		10.49	10.74
DESIGN VOLUME BBL		7	7
RESERVED CAPACITY		50%	53.4%
INSULATION MATERIAL	PU	PU	PU
INSULATION THICKNESS mm	80	80	100



PROJECT NAME	PROJECT NO.	DESIGN NO.	DATE
DESIGNER	CHECKED	APPROVED	
DATE			

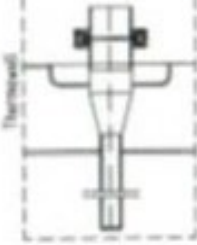
KE



VIEW



Thermowell



1. The inner wall of the welding vessel shall be hot, cast double-welding to ensure full welding the welding stress on inner and outer surfaces shall be provided. Concrete cover area and scratch area are not allowed. The inner surface of the cylinder, top disk and bottom plate shall be 2B.

2. After loading construction of tank, the inner surface of stainless steel shall be polished and passivated.

3. Other loading construction of tank, the inner surface of stainless steel shall be polished and passivated.

4. Other loading tank construction of fiber liner should proceed after pressure test for tank. In fiber liner indicated the joint during 10 minutes it is not allowed to enter hot air treatment condition.

(CONNECTIONS)

NO.	SIZE	DESCRIPTION	COMMIT. SIZE	REMARKS
1	#150	Manway	#150	Blank open
2	15"	Large vent	#18 (X)15	(Change)
3	15"	RP vent	#18 (X)15	(Change)
4	15"	Manway	#18 (X)15	(Change)
5	15"	Thermowell	#18 (X)15	(Change)
6	4"	Vent	#10 (X)2	Fixed
7	15"	Level gauge neck	#18 (X)15	(Change)
8	15"	Sparg	#18 (X)15	(Change)
9	15"	Thermowell	#18 (X)15	(Change)
10	4"	Stand	MP13A	(Change)

Item	Description	Material	Pressure
1	Shell	SS	200
2	Head	SS	200
3	Bottom	SS	200
4	Manway	SS	200
5	RP vent	SS	200
6	Sparg	SS	200
7	Thermowell	SS	200
8	Vent	SS	200
9	Level gauge neck	SS	200
10	Stand	MP13A	200

Design	Standard	Material	Weight

General/304
HS-T-780A
CLT

Design parameters		Pressure	
Shrinker Size	Ø200	Ø200	Ø200
Working pressure	10% 0.2	10%	0.3
Design pressure	10% 0.2	10%	0.4
Working Temperature	T	-5-100	
Design Temperature	T	-5-100	
Medium		Water	
Material	StA	StA	StA
Full volume	80%	80%	80%
Effective volume	80%	80%	80%
Maximum filling ratio	80%	80%	80%
Batch size (kg)	10%	10%	10%
Weight	kg	kg	kg
Insulation material		PIR	
Insulation thickness	mm	80	
Pressure test	10%	0.2	0.3
Air-tightness test	10%		

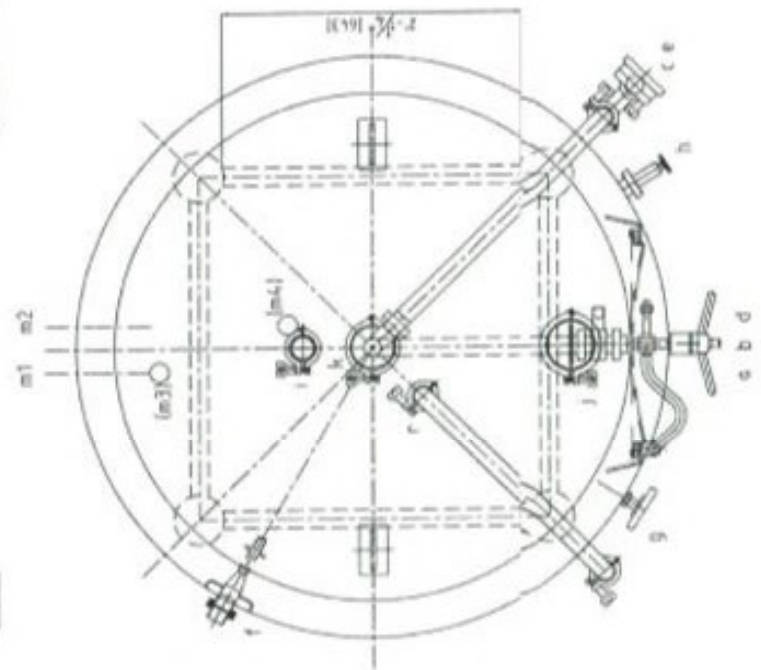
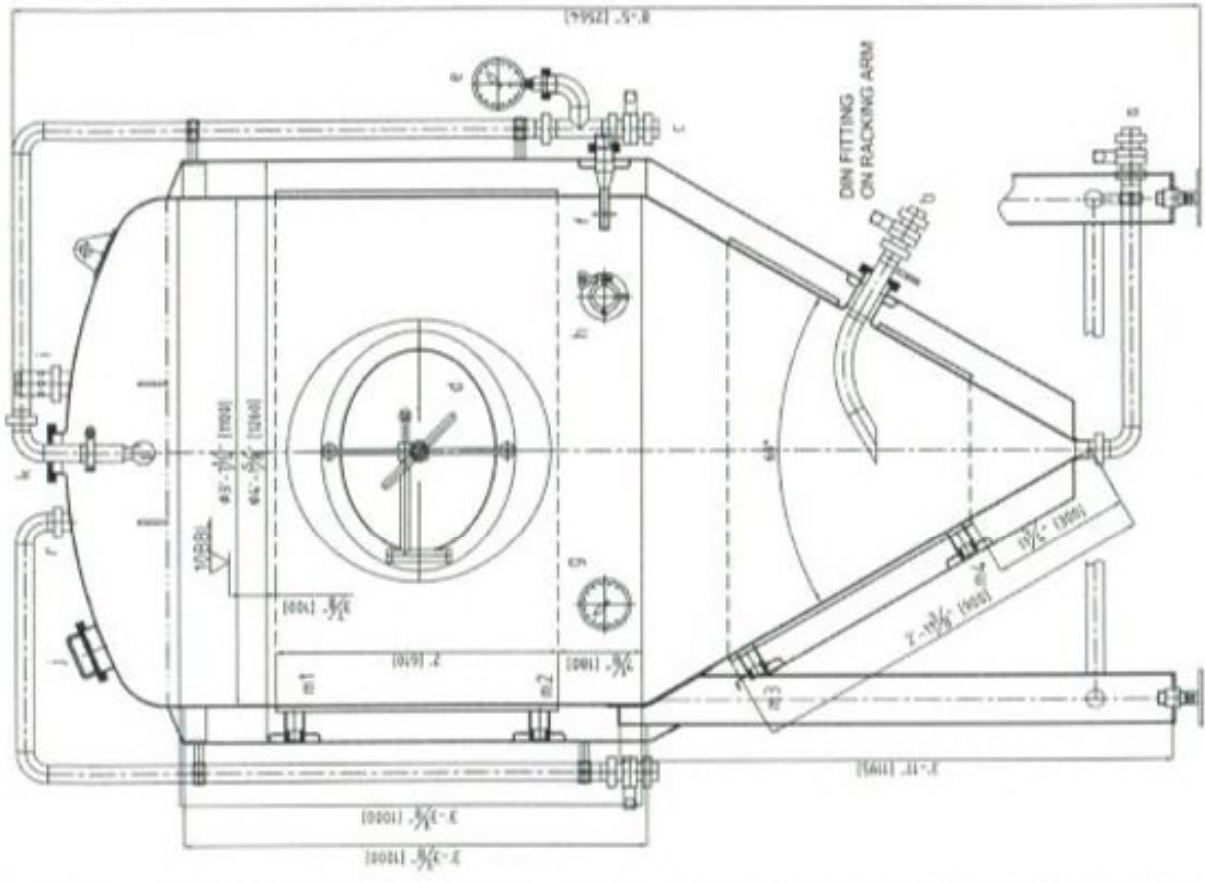
1. Shell which shall be parallel to the outer wall, with double-side welding shall be smooth, not having convex and concave edges and scratches, all interfaces with the inner cylinder welding are tight repair processing.

2. Weld and packing the surface, the inner cylinder top and the inner surface of cone, cylinder and cone frustum surface which mechanical strength joining processing, the inner surface of the cylinder body joining and processing treatment.

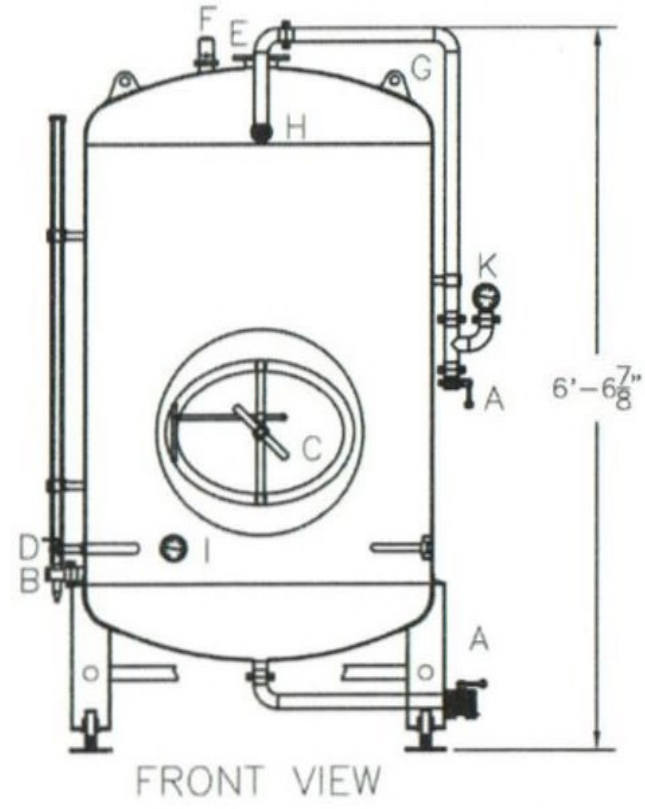
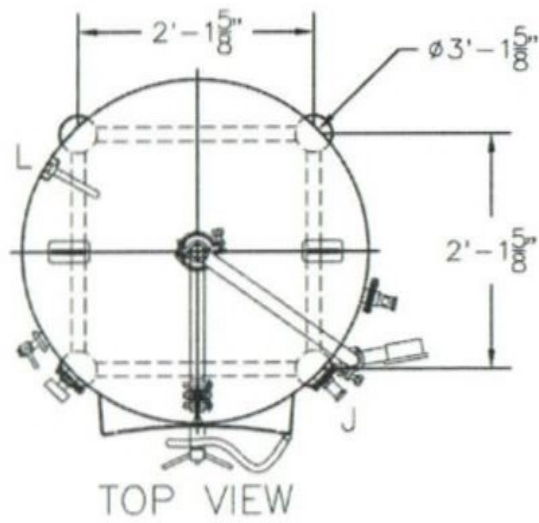
3. After the completion of the mechanical equipment is 0.2MPa operation test, the inside of the jacket is 0.2MPa hydraulic pressure test, pressure 20 hours, equipment is not having water pressure test.

(CONNECTIONS)

MATERIAL	SIZE	DESCRIPTION	CONNECT SIZE	REMARKS
a	15"	(Y-axis) outlet	Ø 38 DX15	(Clamp)
b	15"	(Z-axis) outlet	Ø 38 DX15	(Clamp)
c	15"	(X-axis) inlet	Ø 38 DX15	(Clamp)
d	Ø100X180	(Pressure gauge)	Ø100X180X100	(Metal)
e	15"	(Pressure gauge)	Ø 38 DX15	(Clamp)
f	15"	(Thermometer)	Ø 38 DX15	(Clamp)
g	15"	(Thermometer)	Ø 38 DX15	(Clamp)
h	15"	(Gauge cock)	Ø 38 DX15	(Clamp)
i	2"	(PRV)	Ø50 BX15	(Clamp)
j	4"	(Rig part)	Ø101 BX7	(Clamp)
k	4"	(Connection part)	Ø101 BX7	(Clamp)
r	15"	(CO2 outlet)	Ø 38 DX15	(Clamp)
Ø15-1	3/4"	(Coolant heat exchanger)	MP13/4"	(Thread)




KE




SINGLE-WALLED TANK FEAT

LABEL:	QTY:	DESCRIPTION
A	2	1.5" TC BUTTERFLY
B	1	SIGHT GLASS
C	1	MANWAY DOOR
D	1	1"X10" TC CARBONATIO
E	1	4" TC CIP POR
F	1	1.5" TC PRESSURE RELI
G	2	Ø1.0" LIFTING EY
H	1	CIP SPRAY BAL
I	1	THERMOMETER
J	1	1.5" TC SAMPLE P
K	1	0-15psi PRESSURE G
L	1	1.5" TC PORT FOR RTD TE



PROPRIETARY
DO NOT DUPLICATE

DWN BY: **JMM**
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 ALPHA BREWING OPS
 ALL RIGHTS RESERVED

CUSTOMER SIGNATURE: 
 DESC: **7BBL SINGLE-WALLED SERVING TANK**