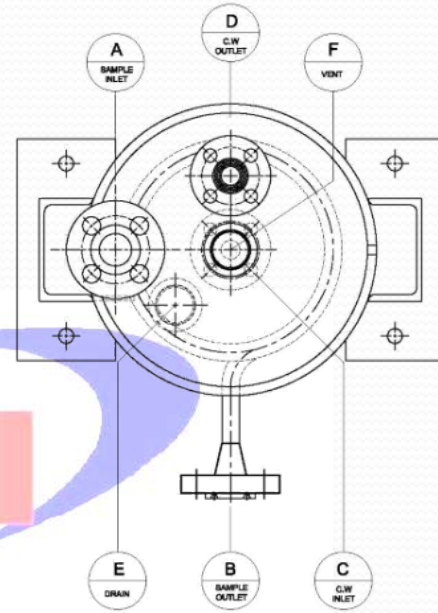
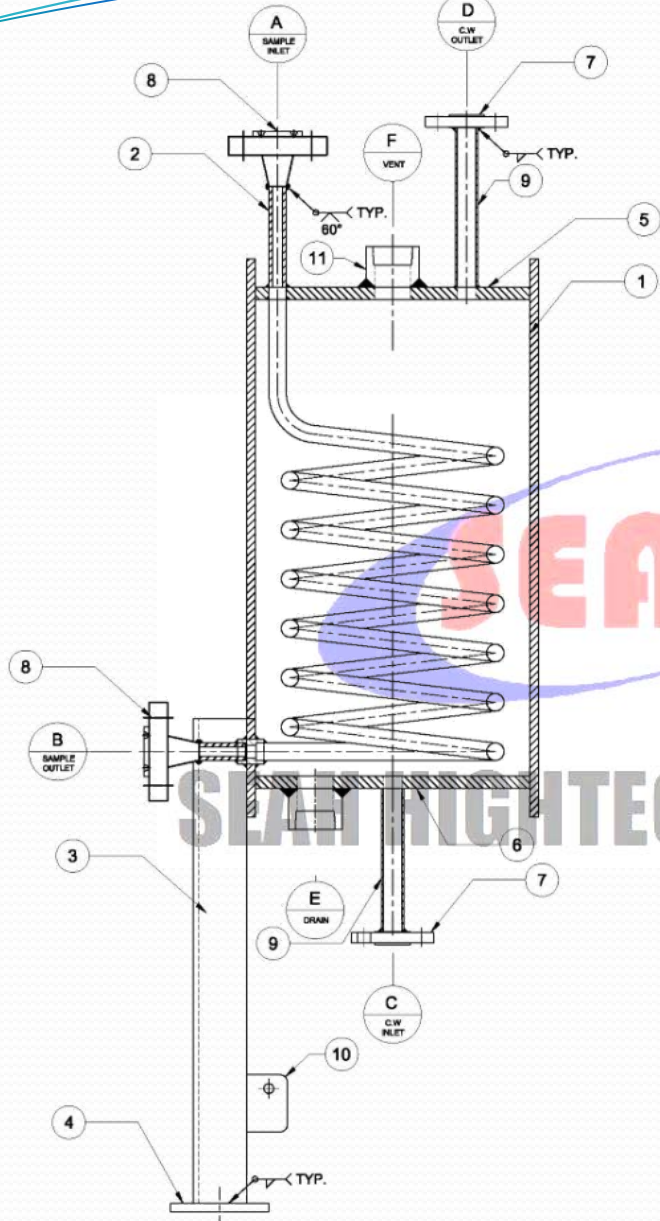
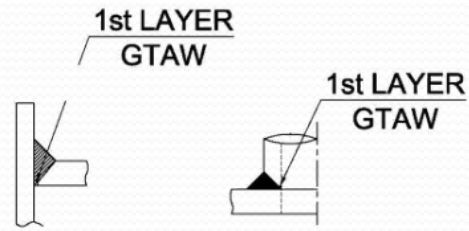


PIPE COOLER



TOP VIEW

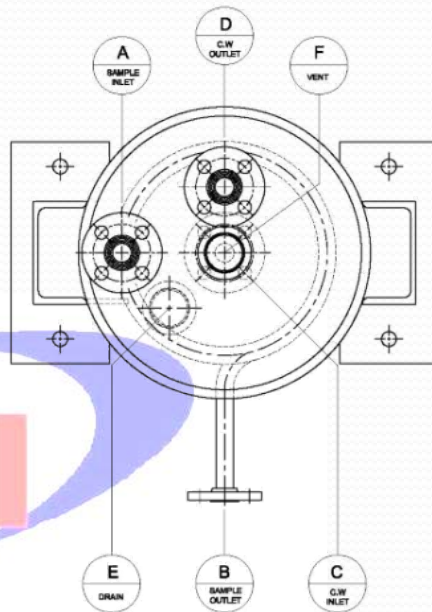
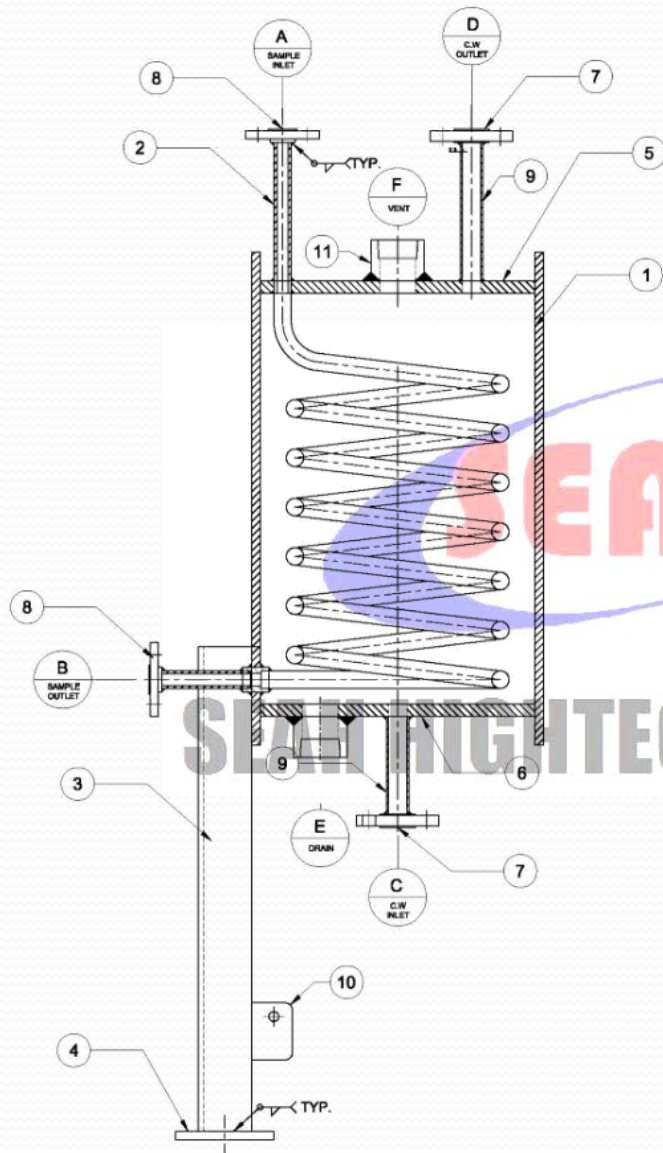


SHELL & COVER WELDING DETAIL

NOZZLE WELDING DETAIL

DESIGN DATA					
TAG NO. (ITEM NO.)	SC107-00				
LAW	KOSHA				
CODE	KS B 6750-3				
VOLUME	0.05	m ³			
	COIL SIDE	SHELL SIDE			
LIQUID NAME	PROCESS	COOLING WATER			
DESIGN PRESS.	142 Kg/cm ²	8	Kg/cm ²		
	14 MPaG	0.79	MPaG		
DESIGN TEMP.	350 °C	70	°C		
OPER. PRESS.	128.8 Kg/cm ²	5	Kg/cm ²		
	12.7 MPaG	0.5	MPaG		
OPER. TEMP.	329 °C	50	°C		
HYDRO. TEST PRESS.	188 Kg/cm ²	10.8	Kg/cm ²		
	18.4 MPaG	1.03	MPaG		
CORR.	1.0	1.0	mm		
RADIOGRAPH	SMLS	NONE			
JOINT EFF.	1.0	1.0			
NOZZLE LIST					
MARK	QTY	SIZE	SCH.	FLANGE RATING	SERVICE
A	1	1/2"	180	1800# WN RTJ	SAMPLE INLET
B	1	1/2"	180	1800# WN RTJ	SAMPLE OUTLET
C	1	3/4"	180	150# SW RF	C.W INLET
D	1	3/4"	180	150# SW RF	C.W OUTLET
E	1	1 1/2"	-	#3000 SOCKET	DRAIN / INSPECTION HOLE
F	1	1 1/2"	-	#3000 SOCKET	VENT / INSPECTION HOLE
BILL OF MATERIAL					
NO.	ITEM NAME	MATERIAL	Qty	REMARK	
1	BODY: 14" x Sch40, SS316	A106-B	1		
2	PIPE: 1/2" Sch180	A106-B	1		
3	SUPPORT : 125 x 65 x 620L	SS275	2		
4	BASE : 270 x 120, 10L	SS275	2		
5	TOP PLATE : 15x	A515-60	1		
6	BOTTOM PLATE : 15x	A515-60	1		
7	3/4" 1800# SW RF	A105	2		
8	1/2" 1800# WN RTJ	A105	2		
9	3/4" Sch180	A106-B	2		
10	EARTH LUG : 8x	304 SS	1		
11	1 1/2" #3000 SOCKET	A105	2		
NOTE					
1. PAINT COLOR - RAL 7035 (LIGHT GRAY)					
2. WELDING POINT : 100% PT					
3. FLANGE FACE SERRATION : 125 - 250AARH					
1	May 14 2021	FOR APPROVAL	J.S KANG	J.S KANG	D.H PARK
0	May 07 2021	FOR APPROVAL	J.S KANG	J.S KANG	D.H PARK
REV.	DATE	DESCRIPTION	DWN	CHK	APPD
ASSEMBLY DRAWING & DETAIL					DWG. START DATE
SAMPLE COOLER					May 14 2021
SCALE	DWG No.	REV.			PDF FILE
N.S	SC107/108-00-01				

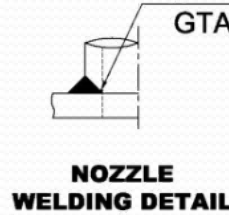
PIPE COOLER



TOP VIEW

1st LAYER GTAW

1st LAYER GTAW



DESIGN DATA			
TAG NO. (ITEM NO.)	SC101-31		
LAW	KOSH-A		
CODE	KS B 6750-3		
VOLUME	0.044		
	COIL SIDE	SHELL SIDE	
LIQUID NAME	PROCESS	COOLING WATER	
DESIGN PRESS.	3.5 Kgf/cm ² 0.35 MPaG	8 Kgf/cm ² 0.79 MPaG	
DESIGN TEMP.	340 °C	70 °C	
OPER. PRESS.	0.6 Kgf/cm ² 0.059 MPaG	5 Kgf/cm ² 0.5 MPaG	
OPER. TEMP.	199.2 °C	50 °C	
HYDRO. TEST PRESS.	4.7 Kgf/cm ² 0.46 MPaG	10.8 Kgf/cm ² 1.03 MPaG	
CORR.	1.0 mm	1.0 mm	
RADIOGRAPH	SMLS	NONE	
JOINT EFF.	1.0	1.0	

NOZZLE LIST					
MARK	QTY	SIZE	SCH.	FLANGE RATING	SERVICE
A	1	1/2"	80	150# SW/RF	SAMPLE INLET
B	1	1/2"	80	150# SW/RF	SAMPLE OUTLET
C	1	3/4"	180	150# SW/RF	C.W. INLET
D	1	3/4"	180	150# SW/RF	C.W. OUTLET
E	1	1 1/2"	-	#3000 SOCKET	DRAIN / INSPECTION HOLE
F	1	1 1/2"	-	#3000 SOCKET	VENT / INSPECTION HOLE

BILL OF MATERIAL				
NO.	ITEM NAME	MATERIAL	Qty	REMARK
1	BODY: 14" x SCH40, 800L	A106-B	1	
2	PIPE: 1/2" SCH40	A106-B	1	
3	SUPPORT: 125 x 65 x 620L	S5275	2	
4	BASE: 270 x 120, 10L	S5275	2	
5	TOP PLATE: 15#	A515-80	1	
6	BOTTOM PLATE: 15#	A515-80	1	
7	3/4" 150# SW/RF	A105	2	
8	1/2" 150# SW/RF	A105	2	
9	3/4" SCH180	A106-B	2	
10	EARTH LUG: 1#	304 SS	1	
11	1 1/2" #3000 SOCKET	A105	2	

NOTE

- PAINT COLOR - RAL 7035 (LIGHT GRAY)
- WELDING POINT : 100% PT
- FLANGE FACE SERRATION : 125 - 250AARH

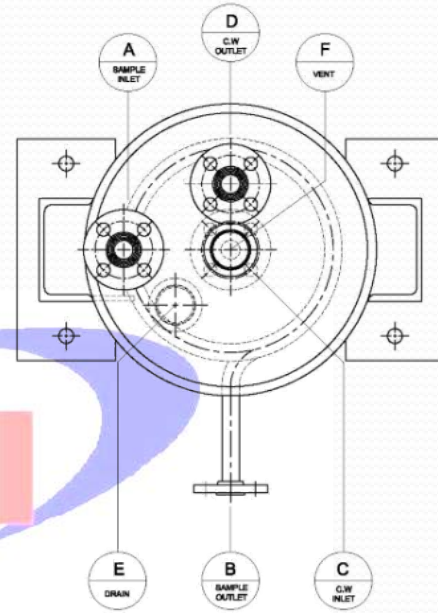
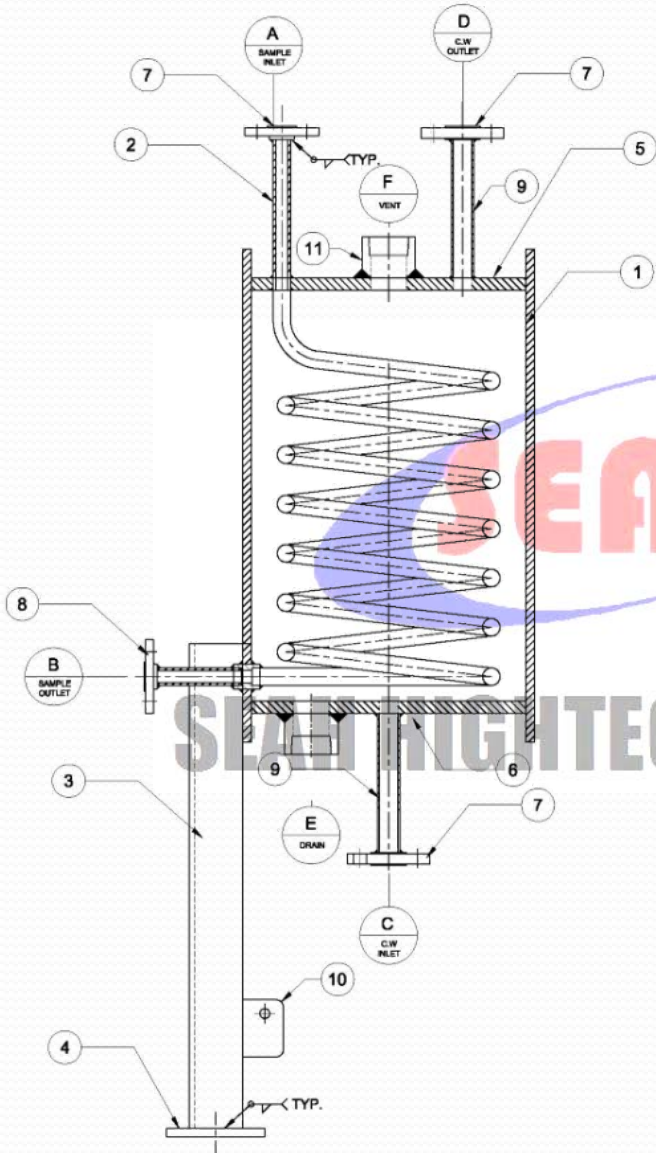
REV.	DATE	DESCRIPTION	DWN	CHK	APPD
1	May 14 2021	FOR APPROVAL	J.S KANG	J.S KANG	D.H PARK
0	May 07 2021	FOR APPROVAL	J.S KANG	J.S KANG	D.H PARK



SEAH HIGHTECH CO., LTD. SEOUL, KOREA		DWG No.	SC101-31-001
ASSEMBLY DRAWING		DWG START DATE	May 14 2021
SAMPLE COOLER		PDF FILE	
SCALE	N.S	REV.	△

PIPE COOLER

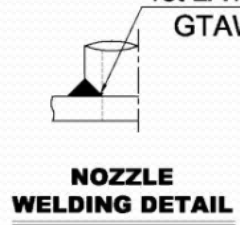
DN DMC



TOP VIEW

1st LAYER GTAW

1st LAYER GTAW



DESIGN DATA

TAG NO. (ITEM NO.)	SC108-31	
LAW	KOSH-A	
CODE	KS B 6750-3	
VOLUME	0.044	
	COIL SIDE	SHELL SIDE
LIQUID NAME	PROCESS	COOLING WATER
DESIGN PRESS.	3.5 Kg/cm ² G	8 Kg/cm ² G
	0.35 MPaG	0.79 MPaG
DESIGN TEMP.	340 °C	70 °C
OPER. PRESS.	0.6 Kg/cm ² G	5 Kg/cm ² G
	0.059 MPaG	0.5 MPaG
OPER. TEMP.	199.2 °C	50 °C
	4.7 Kg/cm ² G	10.8 Kg/cm ² G
HYDRO. TEST PRESS.	0.46 MPaG	1.03 MPaG
CORR.	1.0 mm	1.0 mm
RADIOGRAPH	SMLS	NONE
JOINT EFF.	1.0	1.0

NOZZLE LIST

MARK	QTY	SIZE	SCH.	FLANGE RATING	SERVICE
A	1	3/4"	80	150# SW/RF	SAMPLE INLET
B	1	1/2"	80	150# SW/RF	SAMPLE OUTLET
C	1	3/4"	180	150# SW/RF	C.W INLET
D	1	3/4"	180	150# SW/RF	C.W OUTLET
E	1	1 1/2"	-	#5000 SOCKET	DRAIN / INSPECTION HOLE
F	1	1 1/2"	-	#5000 SOCKET	VENT / INSPECTION HOLE

BILL OF MATERIAL

NO.	ITEM NAME	MATERIAL	Qty	REMARK
1	BODY: 14' x SCh80, 80SL	A106-B	1	
2	PIPE: 1/2" Sch80	A106-B	1	
3	SUPPORT: 125 x 65 x 620L	S5275	2	
4	BASE: 270 x 120, 10L	S5275	2	
5	TOP PLATE: 15K	A515-80	1	
6	BOTTOM PLATE: 15K	A515-80	1	
7	3/4" 150# SW/RF	A105	3	
8	1/2" 150# SW/RF	A105	1	
9	3/4" Sch180	A106-B	2	
10	EARTH LUG: 1#	304 SS	1	
11	1 1/2" #5000 SOCKET	A105	2	

NOTE

- PAINT COLOR - RAL 7035 (LIGHT GRAY)
- WELDING POINT : 100% PT
- FLANGE FACE SERRATION : 125 - 250AARH

REV.	DATE	DESCRIPTION	DWN	CHK	APPD
1	May 14 2021	FOR APPROVAL	J.S KANG	J.S KANG	D.H PARK
0	May 07 2021	FOR APPROVAL	J.S KANG	J.S KANG	D.H PARK

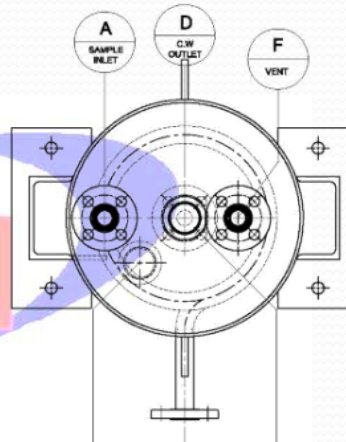
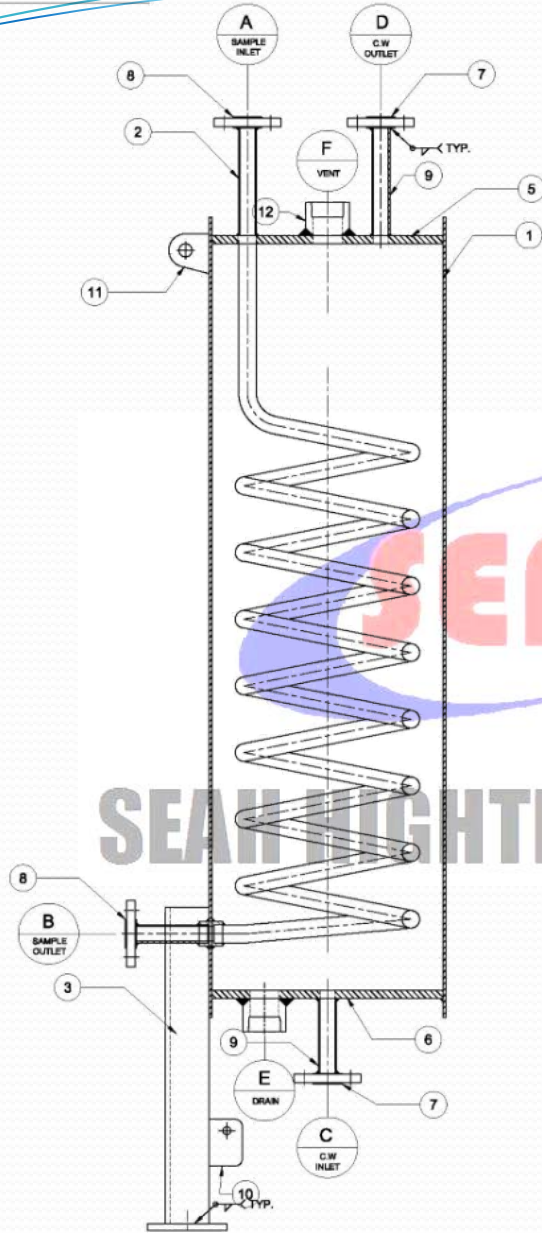


ASSEMBLY DRAWING
SAMPLE COOLER

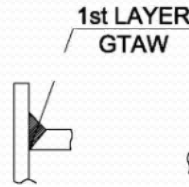
SCALE N.S DWG No. SC108-31-001

DEC No. _____
DWG START DATE: May 14 2021
PDF FILE
REV.

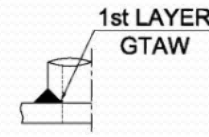
PIPE COOLER



TOP VIEW



SHELL & COVER WELDING DETAIL



NOZZLE WELDING DETAIL

DESIGN DATA

TAG NO. (ITEM NO.)	SC114-31	
LAW	KOSH-A	
CODE	KS B 6750-3	
VOLUME	0.1	
LIQUID NAME	PROCESS	COOLING WATER
	DESIGN PRESS.	DESIGN PRESS.
DESIGN TEMP.	450 °C	70 °C
	OPER. PRESS.	OPER. PRESS.
OPER. TEMP.	362 °C	50 °C
	HYDRO. TEST PRESS.	HYDRO. TEST PRESS.
CORR.	0.0 mm	0.0 mm
RADIOGRAPH	SMLS	NONE
JOINT EFF.	1.0	1.0

NOZZLE LIST

MARK	QTY	SIZE	SCH.	FLANGE RATING	SERVICE
A	1	3/4"	80	300# SW/RF	SAMPLE INLET
B	1	3/4"	80	300# SW/RF	SAMPLE OUTLET
C	1	3/4"	180	150# SW/RF	C.W. INLET
D	1	3/4"	180	150# SW/RF	C.W. OUTLET
E	1	1 1/2"	-	#5000 SOCKET	DRAIN / INSPECTION HOLE
F	1	1 1/2"	-	#5000 SOCKET	VENT / INSPECTION HOLE

BILL OF MATERIAL

NO.	ITEM NAME	MATERIAL	Qty	REMARK
1	BODY: 14" x SCH40, 1200L	A312-TP304	1	
2	PIPE: 3/4" SCH40	A335 P11	1	
3	SUPPORT: 125 x 65 x 620L	S5275	2	
4	BASE: 270 x 120, 10L	S5275	2	
5	TOP PLATE: 12L	A240-304	1	
6	BOTTOM PLATE: 12L	A240-304	1	
7	3/4" 150# SW/RF	A105	2	
8	3/4" 300# SW/RF	A105-F11	2	
9	3/4" SCH40	A106-6	2	
10	EARTH LUG: 8L	304 SS	1	
11	LIFTING LUG: 12L	A240-304	2	
12	1 1/2" #5000 SOCKET	A105	2	

NOTE

- PAINT COLOR - RAL 7035 (LIGHT GRAY) - EXCLUDING 304SS
- WELDING POINT : 100% PT
- FLANGE FACE SERRATION : 125 ~ 250AARH

REV.	DATE	DESCRIPTION	DWN	CHK	APPD
1	May 14 2021	FOR APPROVAL	J.S KANG	J.S KANG	D.H PARK
0	May 07 2021	FOR APPROVAL	J.S KANG	J.S KANG	D.H PARK



ASSEMBLY DRAWING		DWG. START DATE	PDF FILE
SAMPLE COOLER		May 14 2021	
SCALE N.S	DWG No. SC114-31-001	REV. 1	