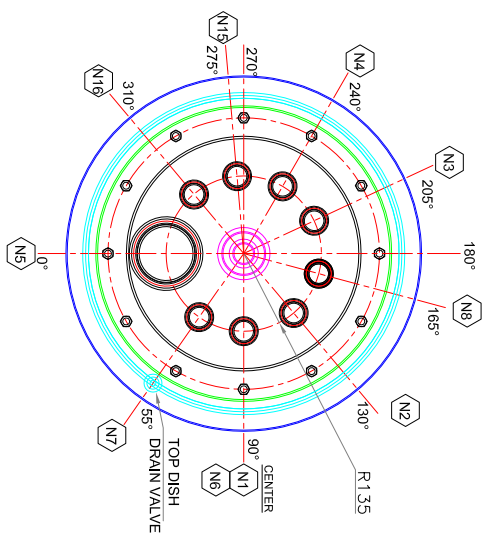
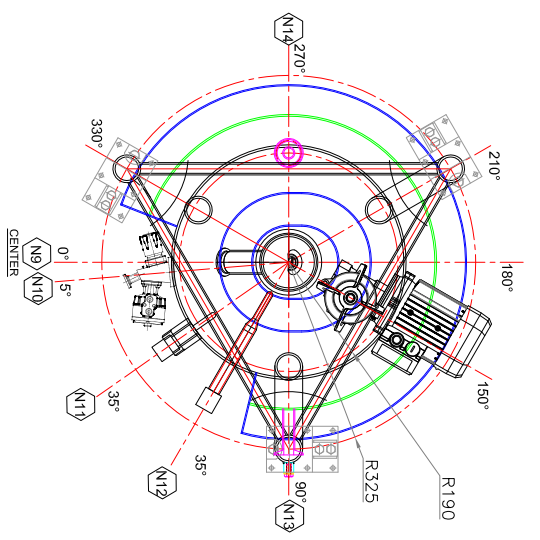


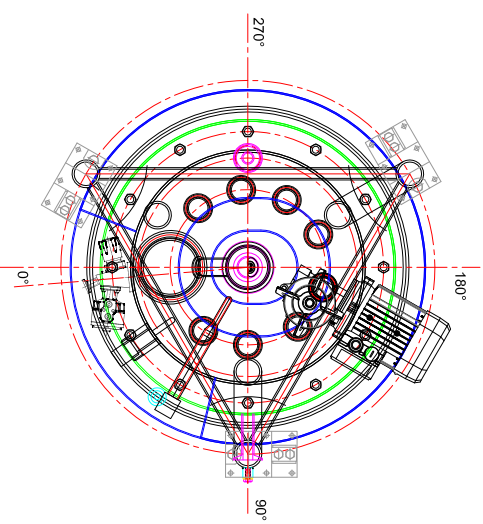
ELEVATION



TOP DISH NOZZLE ORIENTATION



JACKET, SHELL & BOTTOM DISH NOZZLE ORIENTATION



TOP VIEW

(A) GENERAL DATA		(B) VESSEL DATA	
SR. NO.	DESCRIPTION	SR. NO.	DESCRIPTION
1	EQUIPMENT TAG NO. HV-1003	1	WORKING VOLUME 50 LTRS
2	DESIGN & ENGINEERING ASME SEC- VIII DIV.-1	2	GROSS VOLUME 60 LTRS
3	QTY. 1 NO.	3	VESSEL TYPE CYLINDRICAL
		4	POSITION VERTICAL
		5	TOP DISH 10% TORISPHERICAL
		6	BOTTOM DISH 10% TORISPHERICAL
		7	LEGS 3 NOS. LEGS

(C) OPERATING CONDITIONS		
SR. NO.	DESCRIPTION	VESSEL
1	MAX. OPERATING PRESSURE	3 KG/CM2 G
2	DESIGN PRESSURE	3.3 KG/CM2 G
3	WORKING TEMPERATURE	150°C
4	DESIGN TEMPERATURE	180°C
5	CORROSION ALLOWANCE	N.A.
6	RADIOGRAPHY	DP TEST
7	JOINT EFFICIENCY	SH-0.7 & DS-1.0
8	HYDROTEST PRESSURE	4.3 KG/CM2 G

(D) MATERIAL OF CONSTRUCTION		
SR. NO.	DESCRIPTION	VESSEL
1	CONTACT PARTS	SS 316L
2	NON-CONTACT PARTS	SS 304
3	GASKETS	SILICON

(E) FINISH

INTERNAL :- ELECTROPOLISHED TO ≤ 0.4 μ Ra

EXTERNAL :- a) TOP DISH UP TO CLADDING CONE 320 GRIT MIRROR  
b) INSULATION SHELL 220 GRIT MATT  
c) BOTTOM DISH & LEGS 320 GRIT MIRROR

NOZZLE SCHEDULE				
NOZZLE	SERVICE	SIZE	THK.	END CONNECTION
N1	WFI INLET	3" OD	2 THK	TC END WITH SPRAY BALL ATTACH.
N2	N2 INLET	1.5" OD	2 THK	TC END
N3	VENT FILTER	1.5" OD	2 THK	TC END
N4	PRESSURE TRANSMITTER	1.5" OD	2 THK	TC END
N5	CHARGING PORT	4" OD	2 THK	TC END WITH BLIND
N6	LIGHT GLASS	1.5" OD	2 THK	TC END
N7	SIGHT GLASS	1.5" OD	2 THK	TC END
N8	SPARE	1.5" OD	2 THK	TC END WITH BLIND
N9	ACTUATED FLUSH BOTTOM VALVE	3/4" OD	-	TC END
N10	SAMPLING VALVE WITH SIP PORT	1/2" OD X 1/2" OD	-	TC END
N11	PH SENSOR	42 DIA	-	INGOLD
N12	THERMOWELL	1/2" NB	SCH 10	BSPT ( F )
N13	CHILLED WATER OUT / STEAM INLET	1/2" NB	SCH 40	TC END
N14	CHILLED WATER IN / CONDENSET OUT	1/2" NB	SCH 40	TC END
N15	SANITARY SAFETY VALVE	1.5" OD	2 THK.	TC END
N16	COMPOUND PRESSURE GAUGE	1.5" OD	2 THK.	TC END

**NOTES :-**

- 1) ALL DIMENSIONS ARE IN mm.
- 2) ALL WELD JOINTS TO BE GROUND FLUSH FROM INSIDE
- 3) ALL WELDS TO BE FULL PENETRATION CONTINUOUS
- 4) IF ANY DOUBT PLEASE ASK.
- 5) ALL NOZZLES ABOVE 65NB/OD SHOULD BE PROVIDED WITH RF PAD.

SR. NO.	REVISION BY	DESCRIPTION	REV. NO.	DATE	DWG. BY.
1	M.S.	FOR APPROVAL	00	24.12.2021	A.S.

**TSA Process Equipments Pvt.Ltd.**  
111, GOMES INDUSTRIAL ESTATE, ANDHERI-KURLA RD. ANDHERI (E), MUMBAI-400 072.  
Purity Beyond Expectation

CLIENT: M/S. RASTAGENE BIOPHARMACEUTICALS CO.  
LOCATION: IRAN  
CONSULTANT: M/S FABTECH TECHNOLOGIES

TITLE: GA DRAWING FOR 50 LTRS HOLDING VESSEL (HV-1003)

DRAWN BY: A.S. 24.12.2021 SCALE: 1:1  
CHECKED BY: M.S. 24.12.2021 DRAWING NO.: EGD-PC-045-21/22-PV-03  
APPROVED BY: R.P. 24.12.2021 REVISION: 00  
SHEET: 1 OF 1 PROJECT NO.: PC-045-21/22