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	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	
	DOCUMENT TITLE: Economizer Drawing	POI: IFA
Contract No.: DPIC/98-12	DOCUMENT No: DPIC9812-000-VD-1002-ME-DWG-0023	Rev. No.: D1


Regarding last meeting with vendor, please revise calculation as per thermal calculation comment for considering 1.1x748000 for flowrate and duty of 1750 kw and please size all equipment inside package for mentioned design duty of chiller

DOCUMENT TITLE:

Economizer Drawing

(E-PK6101-3)

Tube and shell detail data which will be affected based on revised thermal calculation will be checked in next revision and discrepancies with data sheet and DWG will be checked in next revision

PURCHASER'S COMMENT/APPROVAL STATUS					Purchaser: NARGAN
1	AP: Approved (Released for Manufacturing)				Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1
X	AN: Approved With Minor Comments (Fabrication may Proceed)				
3	NF: Approved With Comments (Fabrication not Proceed)				Item No. (Tag No.): (E-PK6101-3)
4	RJ: Rejected				
5	NR: Not be Returned				
Date		06.03.2022	Signature: A.AB		Vendor Doc. No.: DPIC9812-000-VD-1002-ME-DWG-0023-D1
					
D1	06.Feb.2022	A.VOSOUGH	DR.A.NEJATI	DR.A.NEJATI	
D0	23.Dec.21	A.VOSOUGH	DR.A.NEJATI	DR.A.NEJATI	
REV	DATE ISSUE	PREPARED	CHECKED	APPROVED	



DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT



DOCUMENT TITLE: Economizer Drawing

POI: IFA

Contract No.: DPIC/98-12

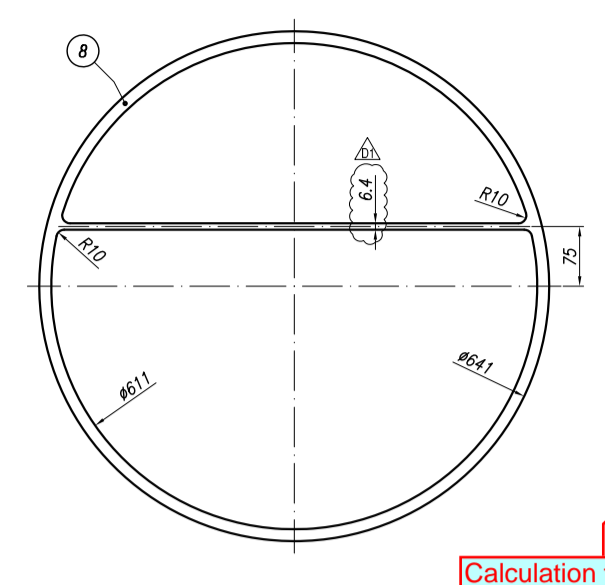
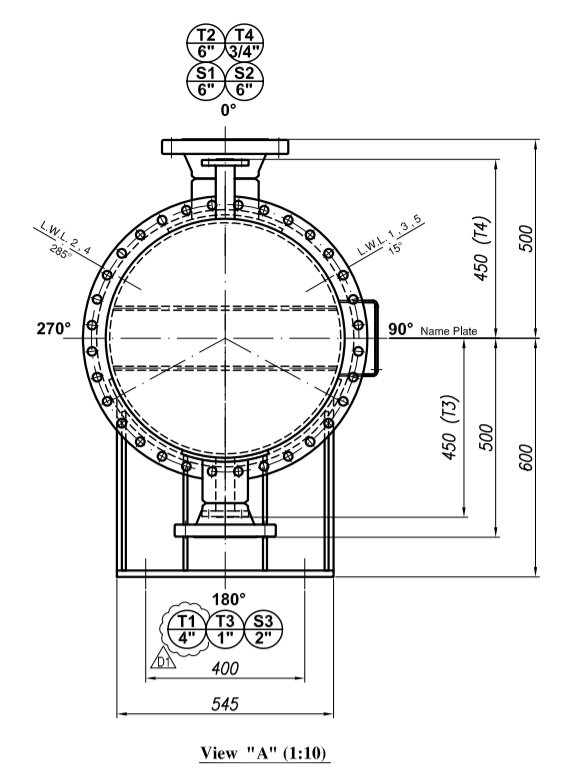
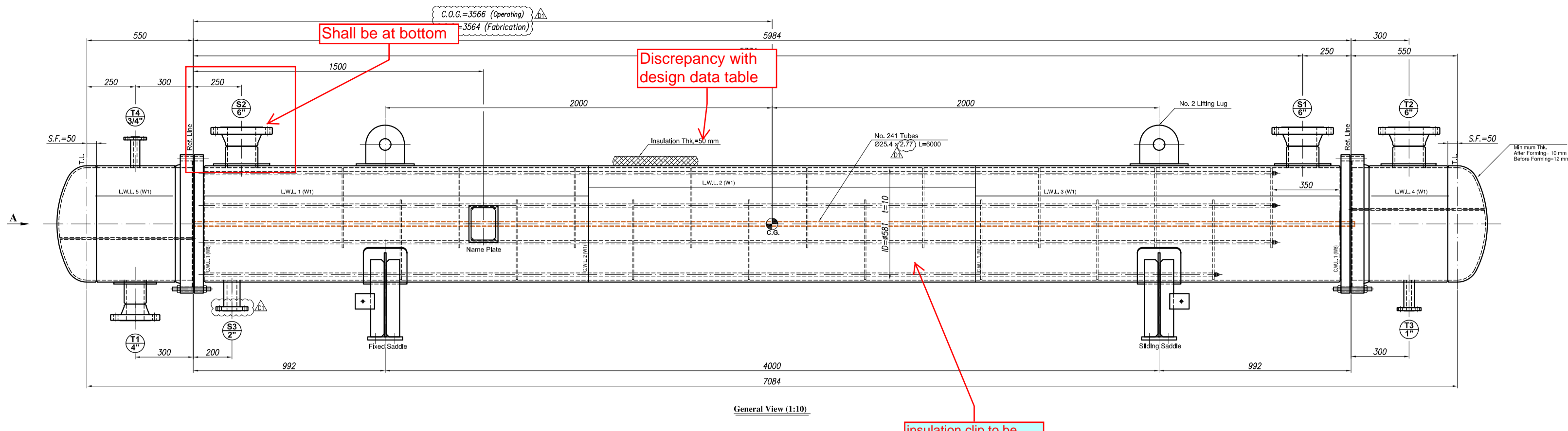
DOCUMENT No: DPIC9812-000-VD-1002-ME-DWG-0023

Rev. No.: D1

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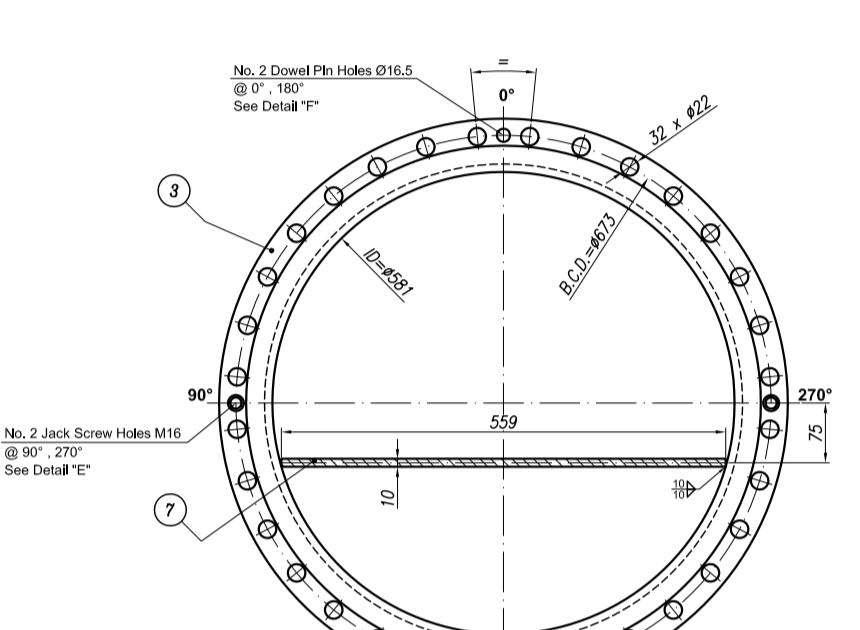
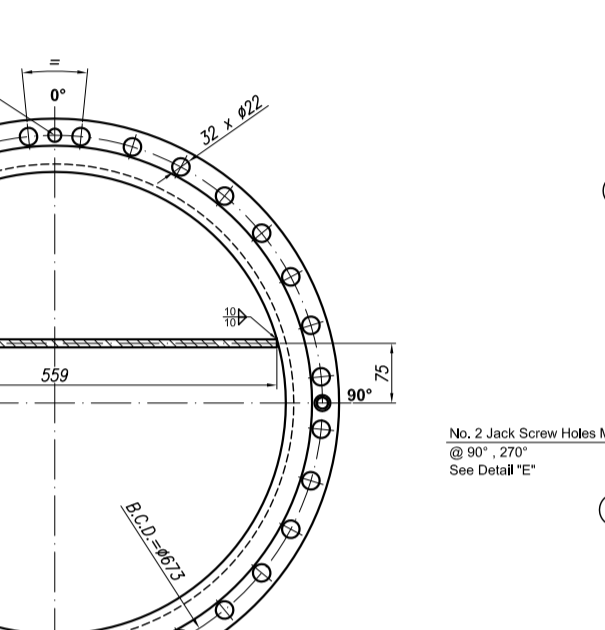
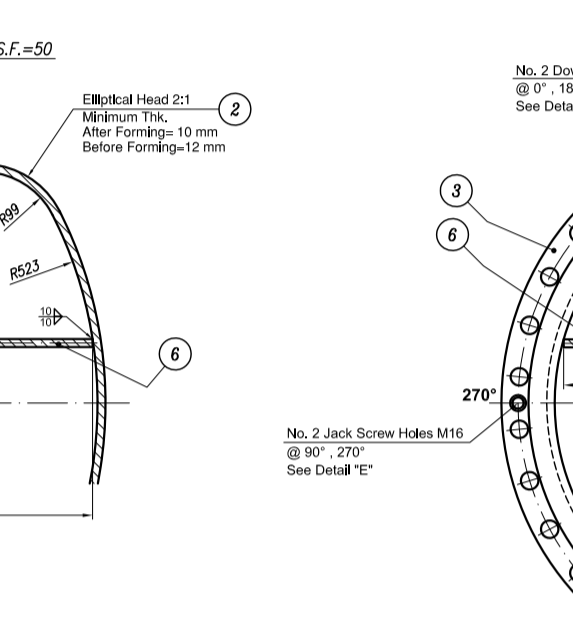
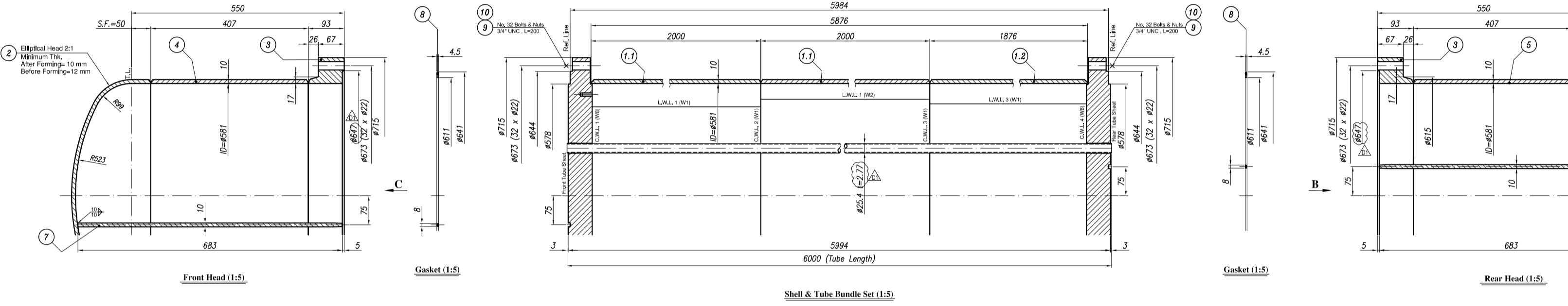
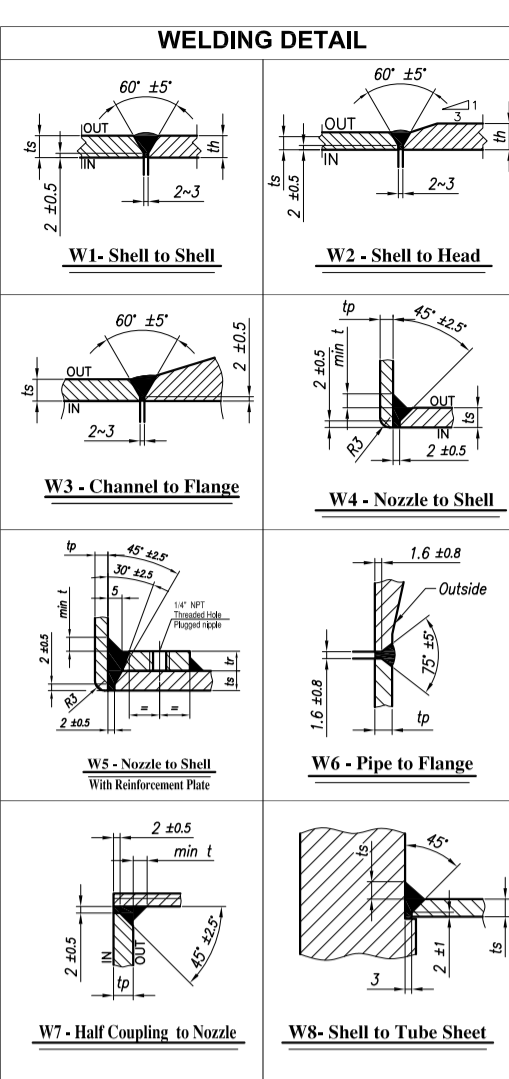
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Calculation to be submitted

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NOZZLE DATA

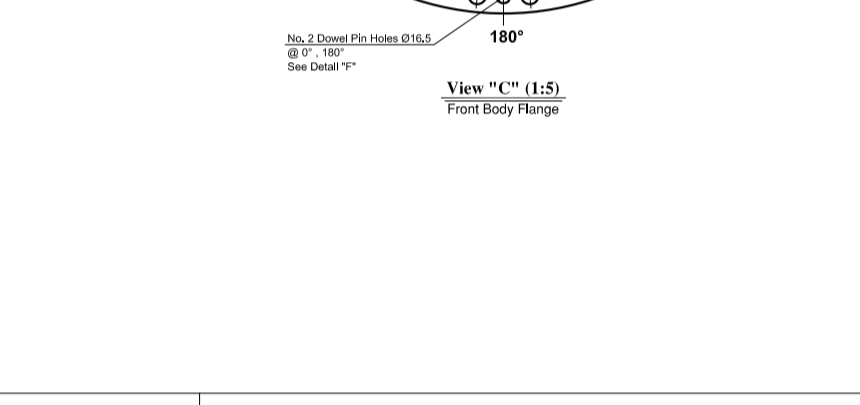
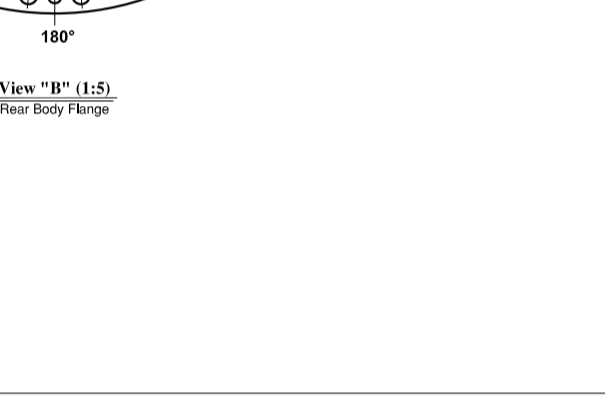
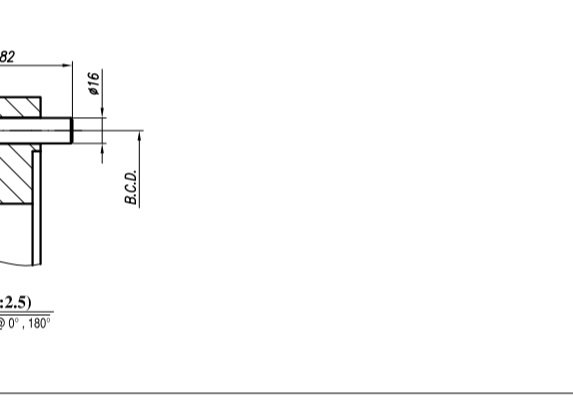
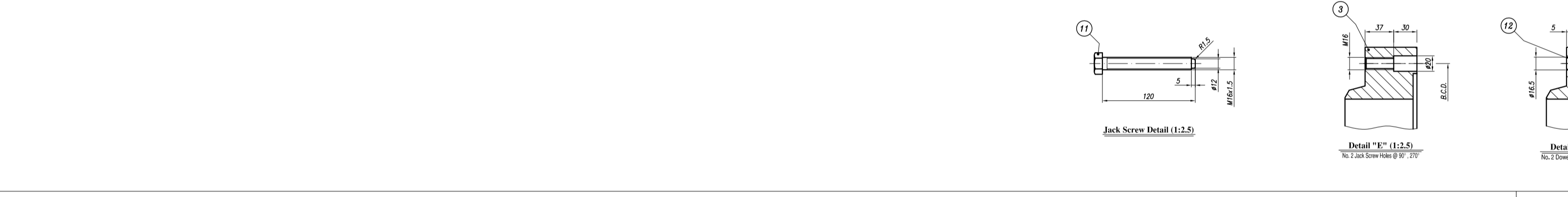
NO.	QTY	SIZE	TYPE	ORIFICE AREA	ORIFICE DIA.	ORIFICE THICKNESS	ORIFICE TO CENTERLINE	ORIFICE TO T.L.	ORIFICE TO T.L. (mm)	ORIFICE TO T.L. (IN)	ORIFICE TO T.L. (FT)
1	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
33	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
34	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
36	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
38	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
39	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
41	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42	1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

MAX. ALLOWABLE NOZZLE LOADS TABLE

NOZZLE	MARK	SIZE	ORIFICE AREA	MOMENT LOADS (IN-IN)	ORIFICE TO CENTERLINE	ORIFICE TO T.L.	ORIFICE TO T.L. (mm)	ORIFICE TO T.L. (IN)	ORIFICE TO T.L. (FT)
1	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
9	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
18	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
23	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
24	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
25	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
32	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
33	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
34	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
35	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
36	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
37	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
38	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
39	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
40	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
41	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
42	1/2"	RF	0.000	0.000	0.000	0.000	0.000	0.000	0.000

GENERAL NOTES

- All dimensions are in millimeters unless otherwise noted.
- Projection of nozzles are measured from flange face to center line of vessel or flange face to T.L.
- All elevations are measured from bottom T.L. unless otherwise specified.
- Ball holes for flanges shall be standard to equipment manufacturer.
- Shell thickness is minimum after forming thickness of straight length of straight heads shall be in no case smaller than vessel shell required thickness.
- Gasket material: Jacketed Metal Stainless Steel, graphite fiber, 3.2 mm TKA.
- Full radiographic examination shall be performed for nozzle necks made by plate.
- Flange face finishing shall be smooth with 125 micron inch minimum to 250 micron inch maximum as per ASME B.16.5 for 2" and less. Also ASME B.16.47 SERIES B for more than 2".
- Finishing & marking of bores and spare parts shall be done by vendor.
- Test pressure calculated as per IS 2950 (50).
- All steel bolts shall be supplied to specification: ASTM A307 (SA-307) TYPE 2.
- Finishing to Micro FINISH, SILENCE UP TO 200C SA3 Surface Prep Partion SA3.
- A reduction scalar factor of 0.7 and 0.6 is considered in the calculation of welds and all loads respectively.



LOADING DATA AT BASE

MOBILITY	LOAD (KN)	LOAD (LBS)	LOAD (TON)
OPERATING WEIGHT	2572	5767	696
WEIGHT	2572	5767	696

WEIGHTS

NO.	PART NAME	MATERIAL	DIMENSION	QTY	WEIGHT (KG)	REMARK
1.1	Shell (Plate)	SA 516 Gr 70N	2000 x 1857 x 10	2	289.578	-
1.2	Shell (Plate)	SA 516 Gr 70N	1857 x 10 x 10	1	271.271	-
2	Ellip. Head 2:1	SA 516 Gr 70N	1857 x 10 x 10	2	48.95	-
3	Front & Rear Body Flange	SA 516 Gr 70N	1857 x 10 x 10	2	48.95	-
4	Front Channel (Plate)	SA 516 Gr 70N	1857 x 10 x 10	1	59.59	-
5	Rear Channel (Plate)	SA 516 Gr 70N	1857 x 10 x 10	1	59.59	-
6	Pass Partition (Plate)	SA 516 Gr 70N	1857 x 10 x 10	1	28.28	-
7	Pass Partition (Plate)	SA 516 Gr 70N	1857 x 10 x 10			