







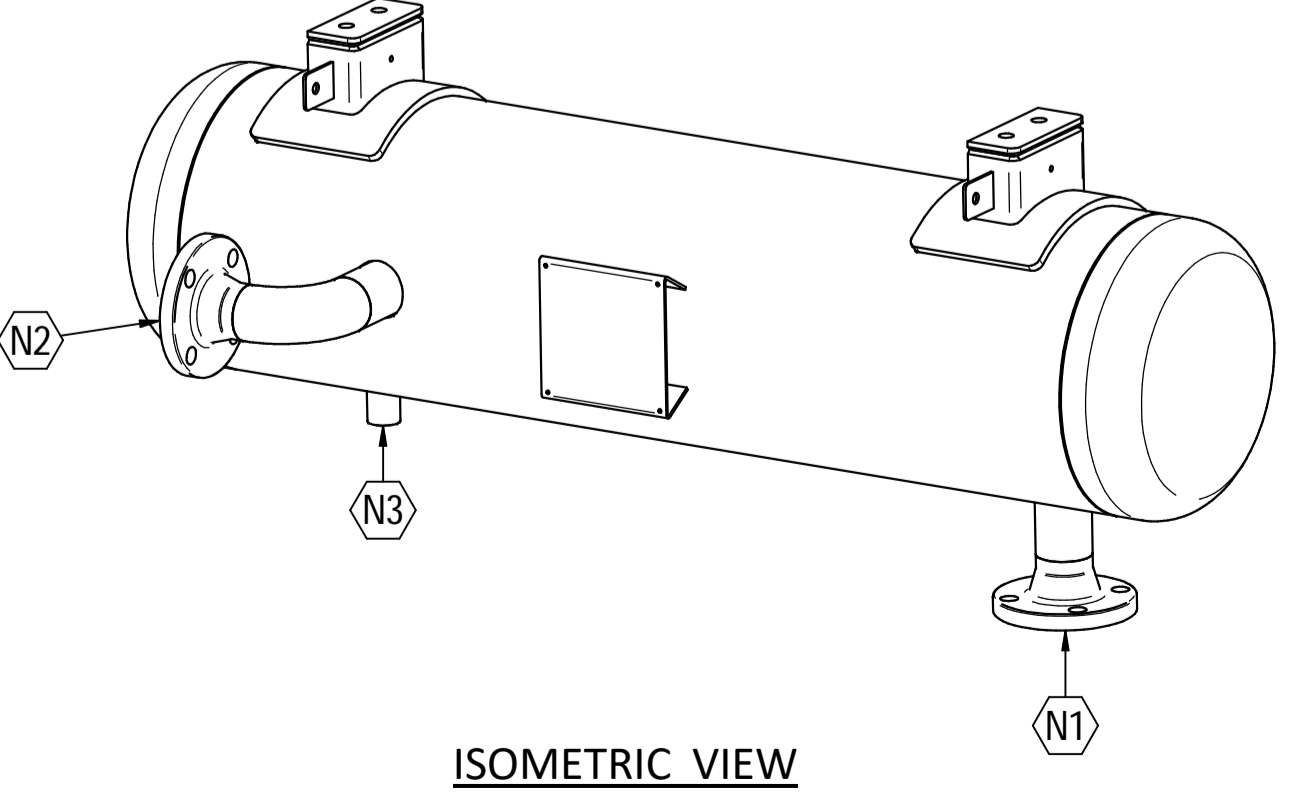
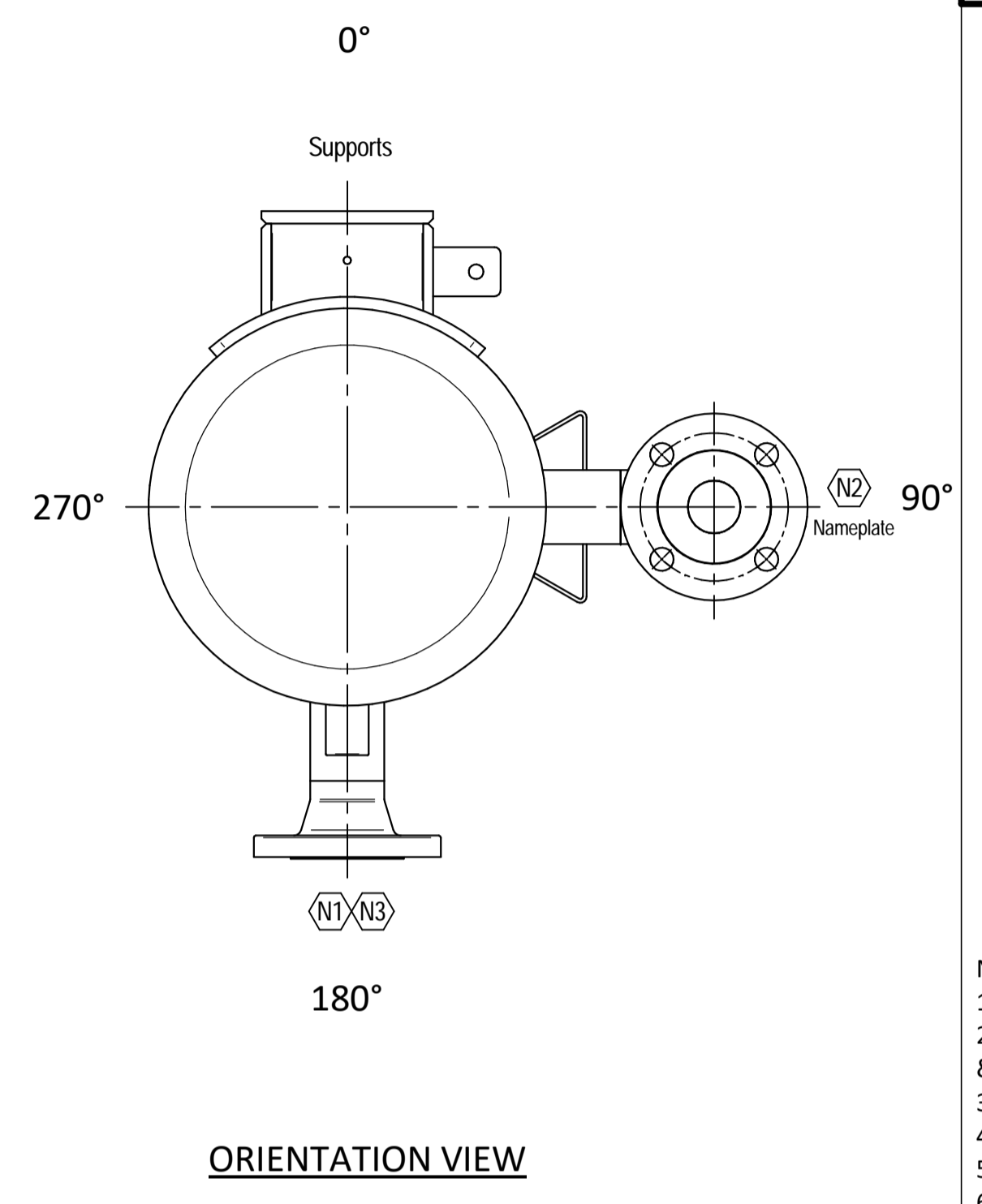
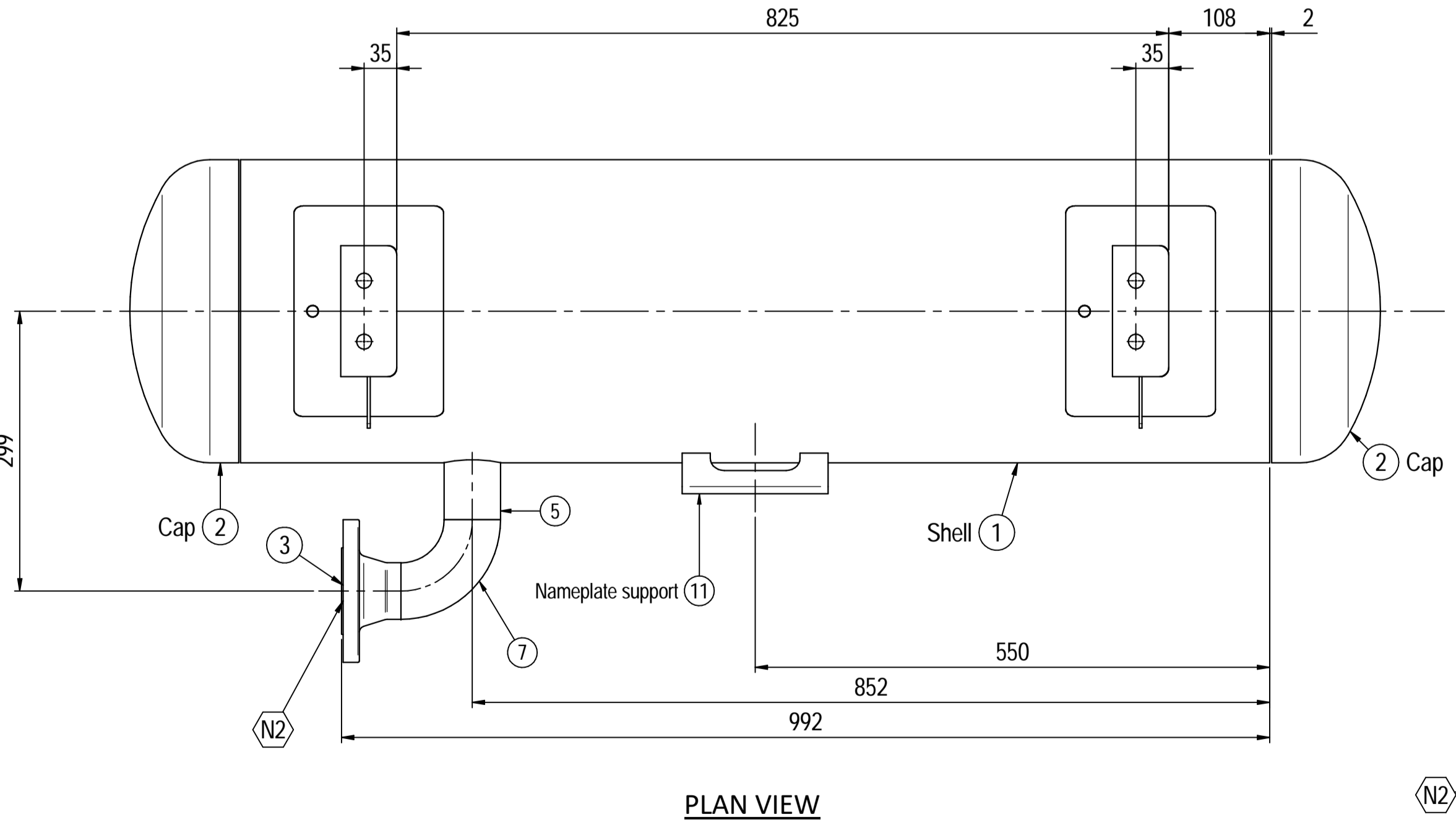
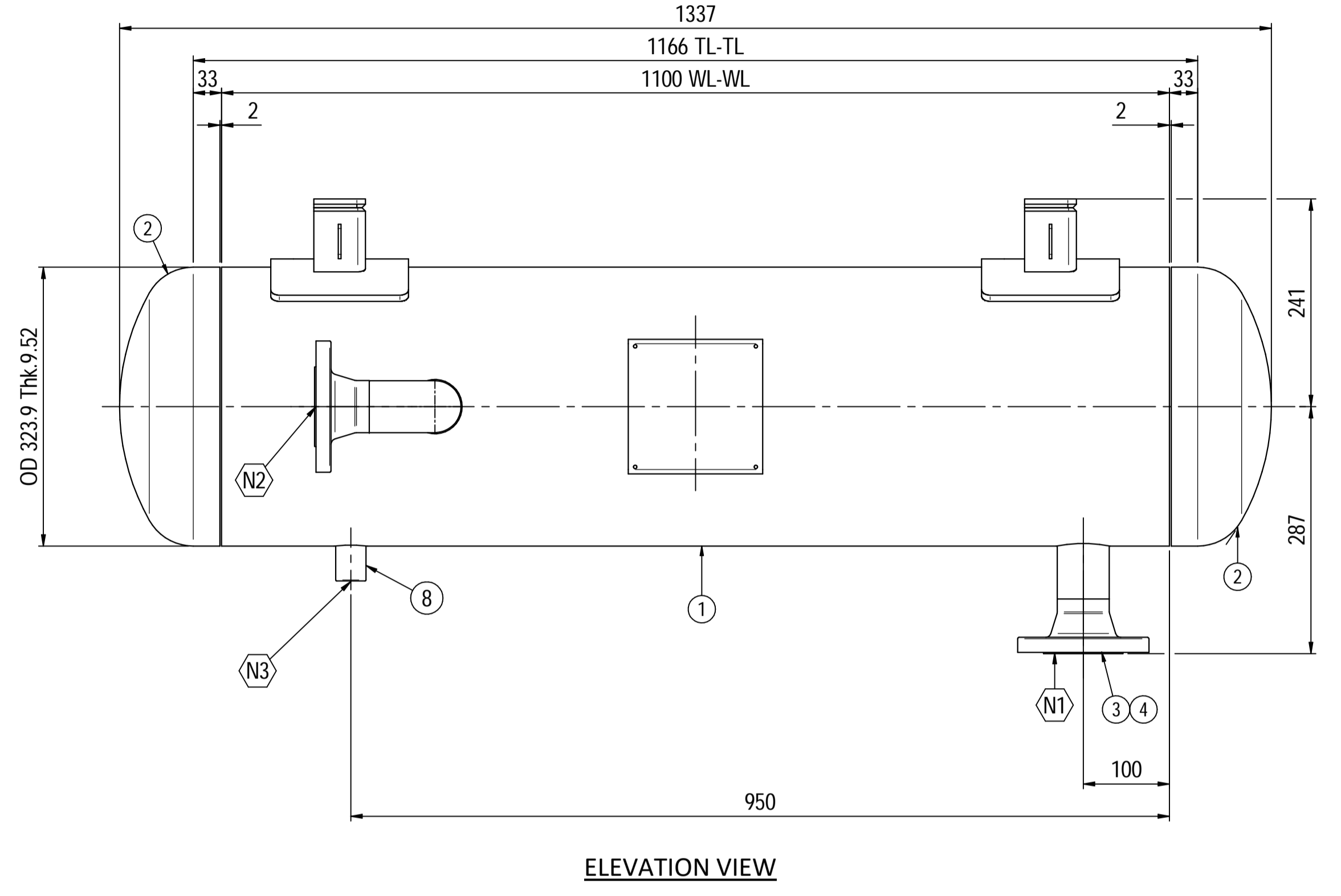
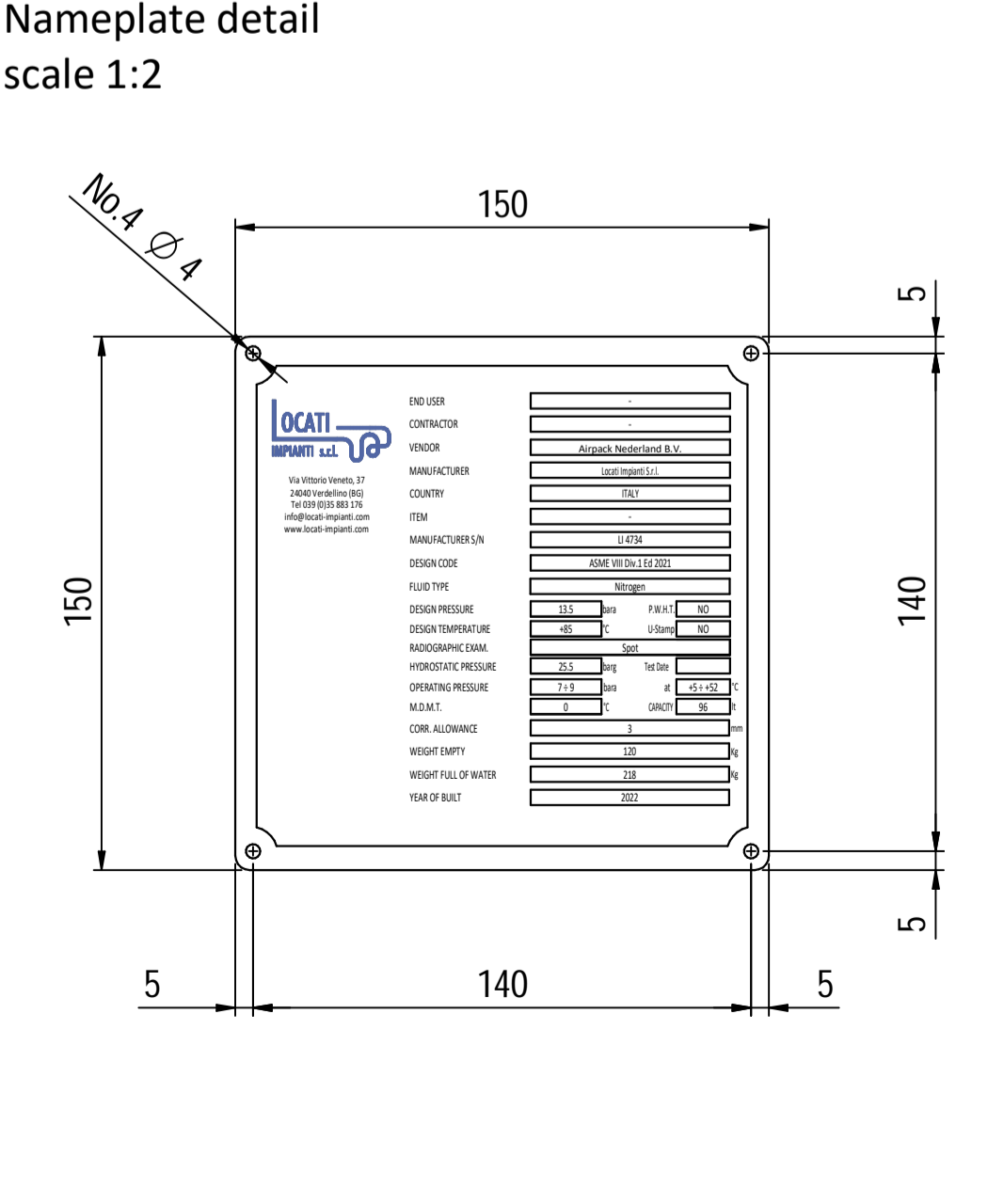
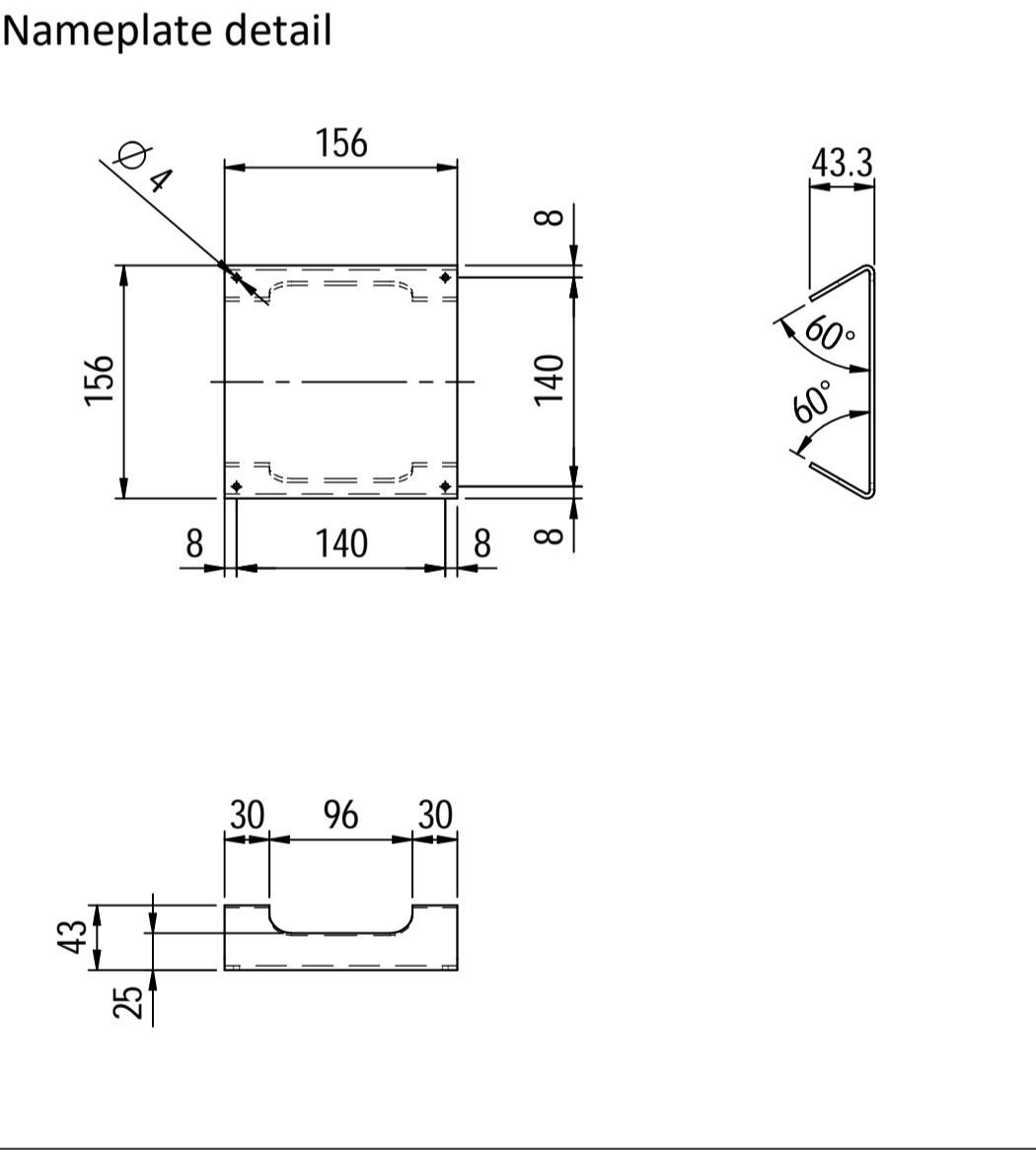
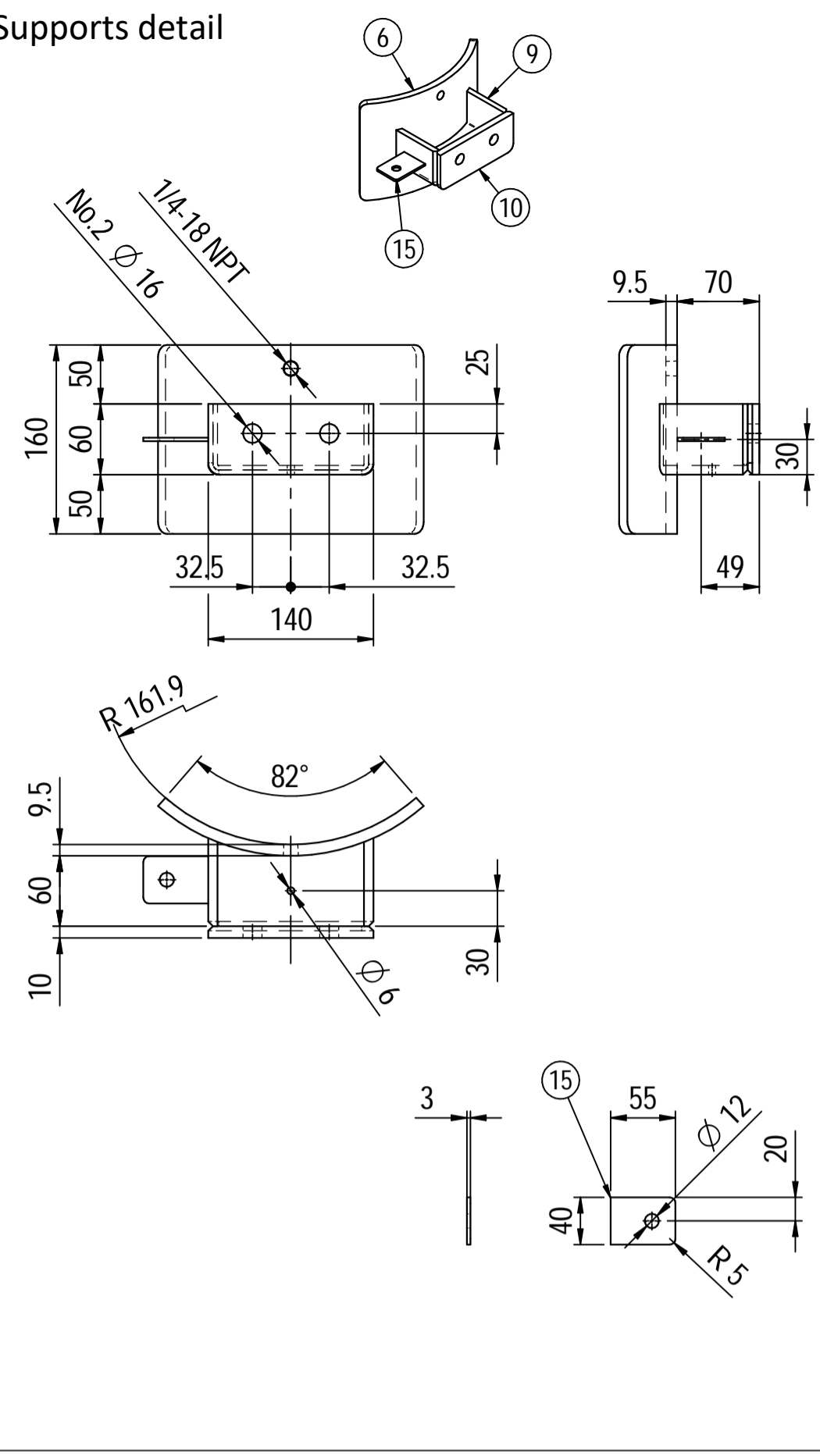
OWNER:  شرکت سست و سویی توهمه ایرانیان (سهامی عامه)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	PULSATION DAMPER DETAIL DRAWING FOR NITROGEN GAS BOOSTER								
MC :							 شرکت سست و سویی توهمه ایرانیان (سهامی عامه)	Project	Area
Owner Document Number: 17811-23C	BU	20	VD	303	ME	DWG	0079	Rev.:	Page
								03	1 of 6

Repetitive comment:
Effect of wind and seismic load shall be considered in design of pulsation dampener.

PULSATION DAMPER DETAIL DRAWING FOR NITROGEN GAS BOOSTER

 شرکت سست و سویی توهمه ایرانیان (سهامی عامه)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	May/15/2022	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

03	13/05/2022	For approval	KP	CL	JR	
02	06/05/2022	For approval	KP	CL	JR	
01	26/04/2022	For approval	KP	CL	JR	
00	06/04/2022	For approval	KP	CL	JR	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P



Material List				
Pos.	Q.ty	Description	Mat.	Cert.
1	1	Shell by seamless pipe 12" Sch.STD L=1100	SA106 Gr.B	3.1
2	2	Reduced cap 12" Sch.STD	SA234 WPB	3.1
3	2	Flange 2" WN 150# Sch160	SA105	3.1
4	1	Seamless pipe 2" Sch160 L=74	A106 GrB	3.1
5	1	Seamless pipe 2" Sch.160 L=73	A106 GrB	3.1
6	2	Pad by pipe 12" Sch.STD	A106 Gr.B	3.1
7	1	Seamless elbow 2" 90° LR Sch160	A234 WPB	3.1
8	1	Coupling 1/2" NPT #6000	A105	3.1
9	2	Plate 74.5x231 Thk.8	A516 70	3.1
10	2	Plate 16x65 Thk.10	A516 70	3.1
11	1	Nameplate support 156x241 Thk.3mm	A516 70	3.1
15	2	Earthing Plate 55 x 40 Thk.3	A240 TP316L	

- Note:**
- 1) Governing measurement S.I. unless otherwise specified;
 - 2) Flange bolt holes have to be straddled from main vessel center line in plan & vertical & horizontal centreline in elevation;
 - 3) Material: certification 3.1 EN 10204;
 - 4) All internal edge shall be rounded off;
 - 5) Nozzle flanges in accordance with ASME B16.5: 2013;
 - 6) Flange fittings in accordance with ASME B16.9: 2012;
 - 7) The flange dimensions are in accordance to ASME B16.5: 2013;
 - 8) All fillet welds not detailed on "WELDING MAP" or drawing shall have the weld; throated equal to 0,7 times the minimum thickness to be welded;
 - 9) All welds are continuous except where indicate;
 - 10) See document C220006CLC009 for vessel calculation.

ITEM	QTY	SERVICE	SIZE	PIPE O.D.	THK	RATING	FLANGE TYPE	FACE	O.D.	THK.	Tc
N3	1	DRAIN	1/2"	38.1	8.38	#6000	-	NPT-F	-	-	8.5 + 10
N2	1	AIR OUTLET	2"	60.3	8.74	#150	WN	RF	-	-	8.5 + 10
N1	1	AIR INLET	2"	60.3	8.74	#150	WN	RF	-	-	8.5 + 10

DATI DI PROGETTO / Design data			
FLUIDO	Nitrogen	COLLAUDO	Lloyd Register
STATO FISICO DEL FLUIDO	Gas	Test	
Physical state of fluid	Gas	NATIONAL BOARD REGISTRATION	NO
CODICE DI CALCOLO	ASME VIII Div. 1 Ed.2021	CANADIAN REGISTER NUMBER	NO
Construction code	ASME VIII Div. 1 Ed.2021	CANADIAN REGISTER NUMBER	NO
PRESSIONE DI ESERCIZIO	7 + 9 bara	SERVIZIO LETALE	NO
Operating pressure	7 + 9 bara	Lethal service	NO
PRESSIONE DI PROGETTO	13.5 bara (12.5 barg)	X-RAY	RT examination
Design pressure	13.5 bara (12.5 barg)	RT examination	Spot (RT3)
PRESSIONE ESTERNA	NO	LICUIDI PENETRANTI	NO
External pressure	NO	Dye penetrant extension	NO
PRESSIONE DI PROVA IDRAULICA	25.5 barg	ULTRASUONI	NO
Hydraulic test pressure	25.5 barg	Ultrasonic extension	NO
TEMPERATURA DI ESERCIZIO	+5 + 52 °C	CONTROLLO MAGNETOSCOPICO	NO
Operating temperature	+5 + 52 °C	Magnetic particle examination	NO
TEMPERATURA DI PROGETTO	+85 °C	ALLONGE DI SALDATURA	NO
Design temperature	+85 °C	Weld tehs coupon	NO
SOVRAMEZZA DI CORROSIONE	3 mm	PROCEDIMENTO DI SALDATURA	See doc: C220006WBK013
Corrosion allowance	3 mm	Welding procedure	See doc: C220006WBK013
CAPACITA'	96 l	TIPO DI FONDO	CAP
Capacity	96 l	Head type	CAP
EFFICIENZA GIUNTI	0.85	FORMAZIONE FONDO	HOT
Joint efficiency	0.85	Head forma	HOT
MAWP @ Design Temperature	18.15 barg @ +85 °C	PESO A VUOTO	120 kg
MAWP(EXT)	NO	PESO IN ESERCIZIO	120 kg
MDMT @ MAWP	0 °C @ 18.15 barg	PESO PIENO D'ACQUA	218 kg
P.W.H.T.	NO	DATI DEL VENTO	-
IMPACT TEST	NO	DATI SISMICI	-
Exemption	NO	Seismological datas	-

Rev.	Descrizione / Description	Disegnato/Draw	Controllato/Checked	Approvato/Approved	Data/Date
03	Modified as per Client comments	CM	MV	GL	11/05/2022
02	Modified as per Client comments	CM	MV	GL	15/04/2022
01	Modified straight flange length on cap	CM	MV	GL	30/03/2022
00	FIRST ISSUE	CM	MV	GL	16/03/2022

Objetto/Object: **N2 PULSATION DAMPER INLET**

Scala/Scale	1 : 5	Formato/Size	A1
Comm. N°/Job No.	C220006	Foglio/Sheet	1 - 1
Cliente/Customer	Airpack Nederland B.V.		
Ord. No.	18498-VV-0901		
Dis. N°/Dwg No.	C220006DWG003	Rev.	03

