



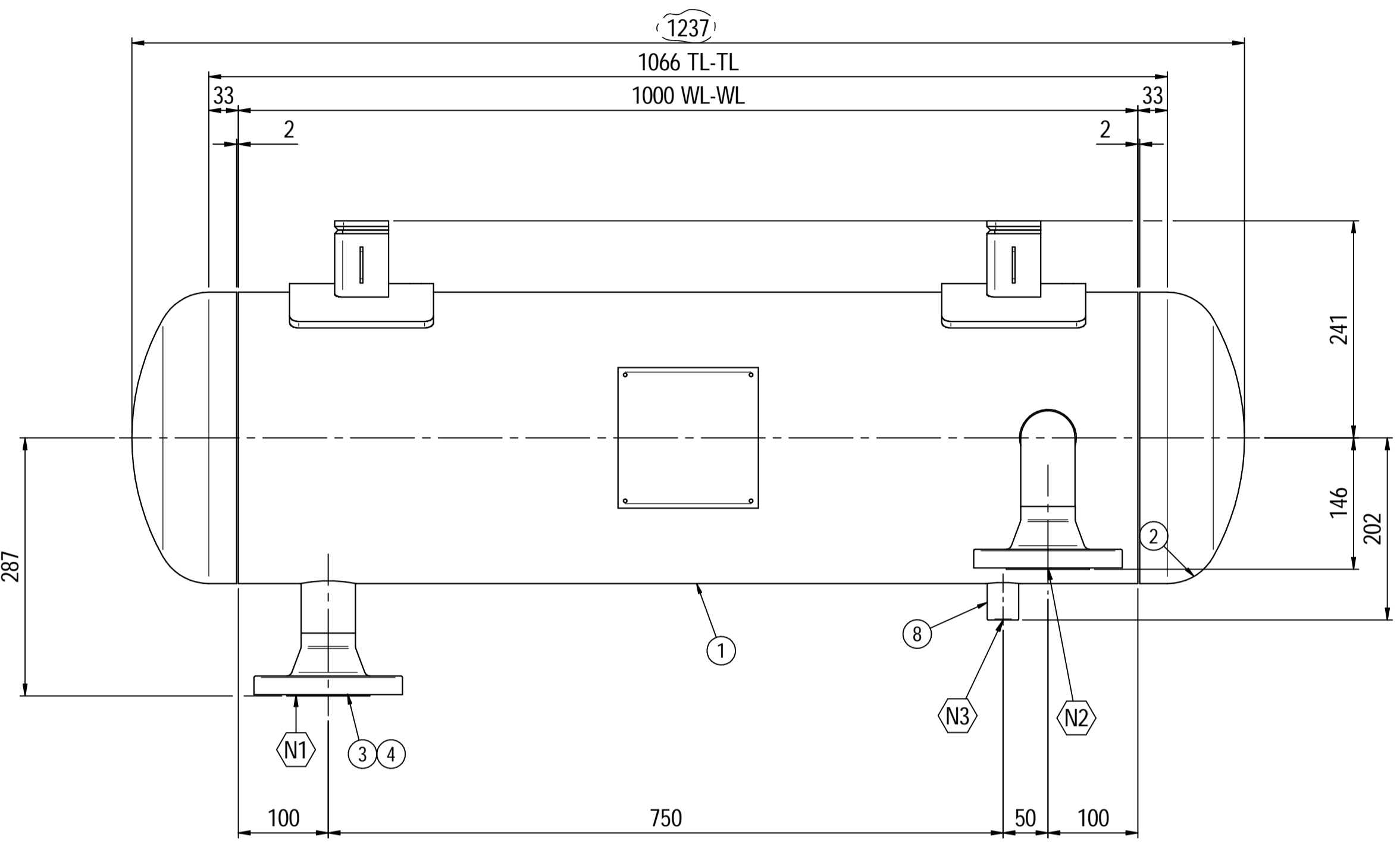
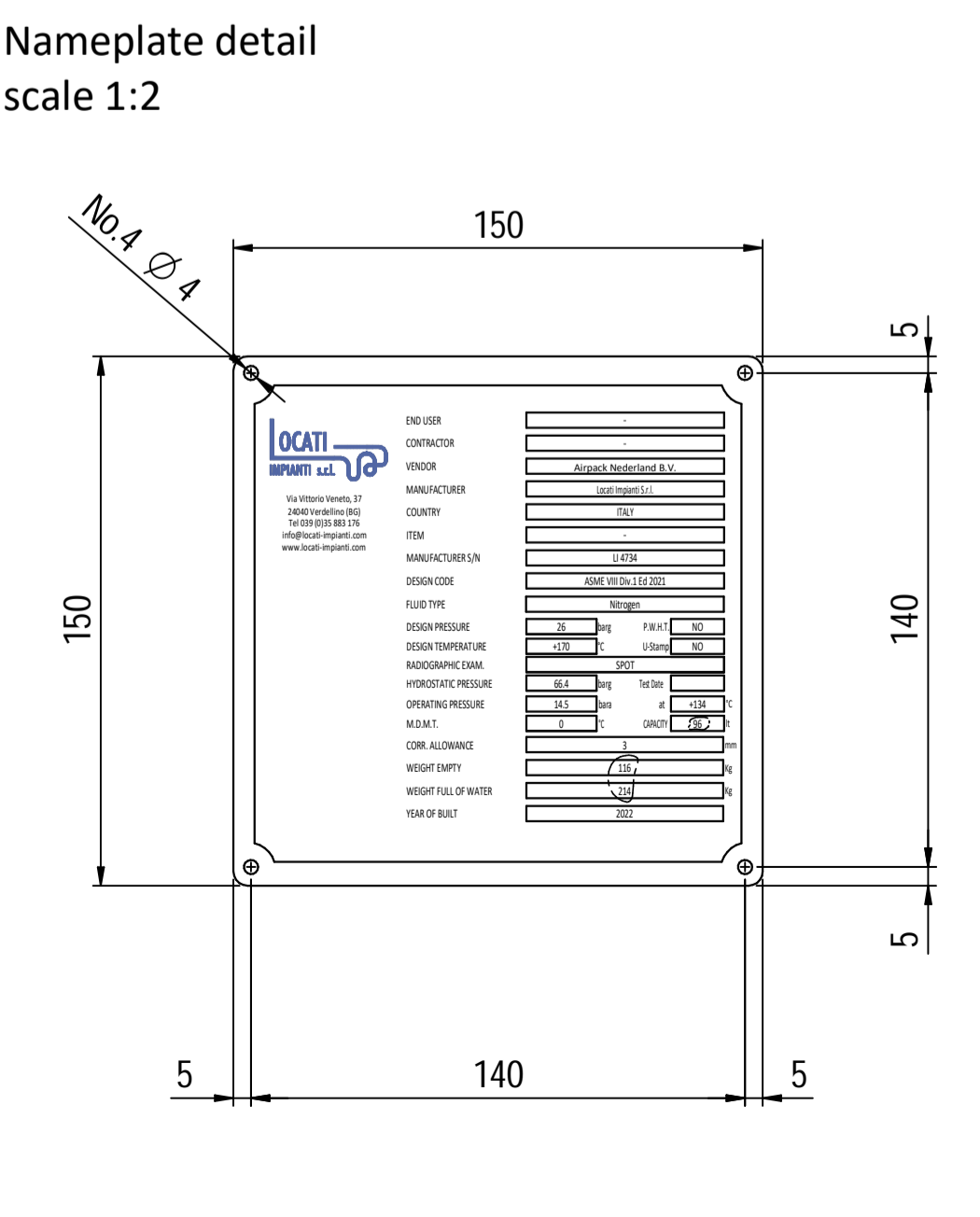
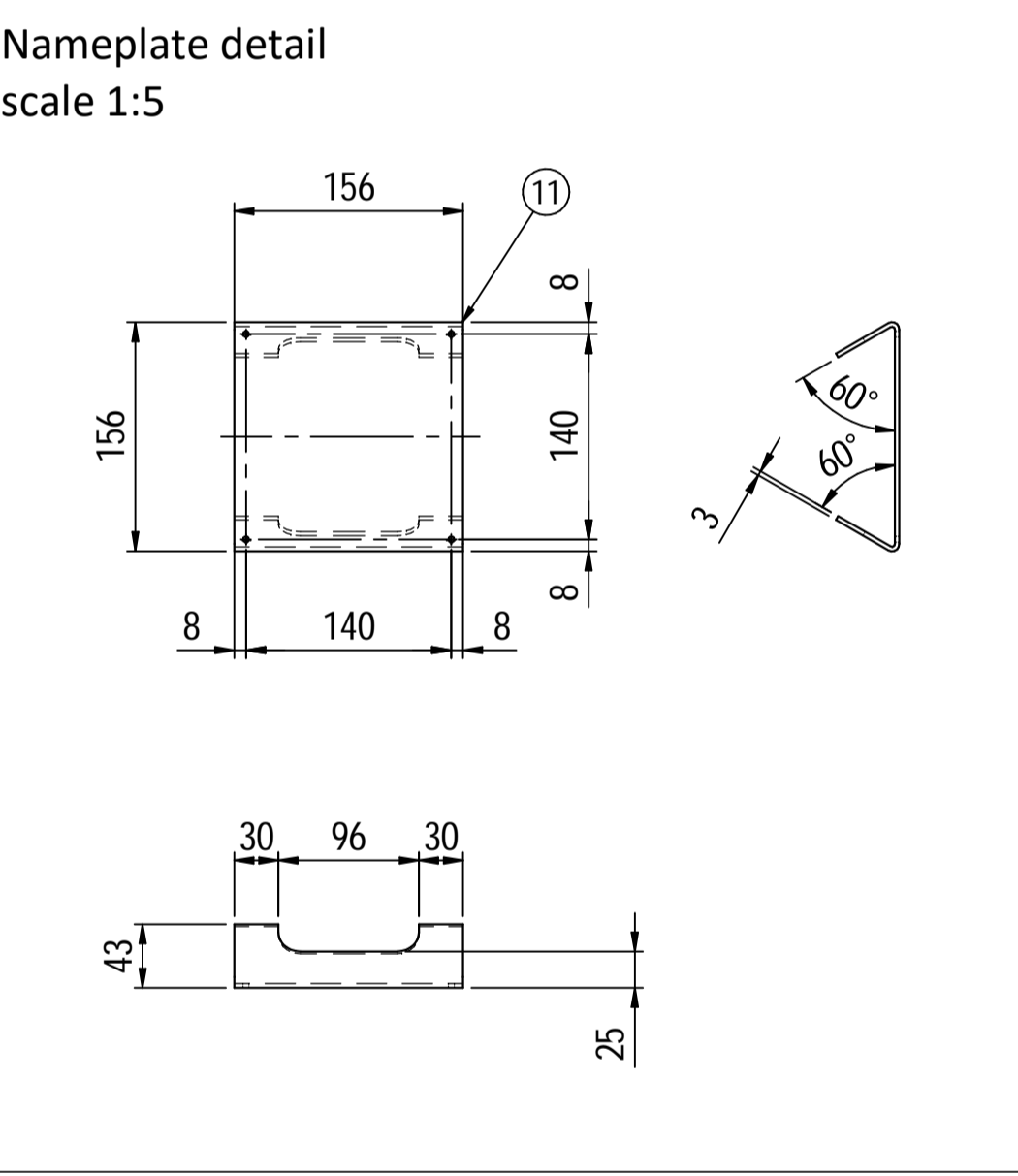
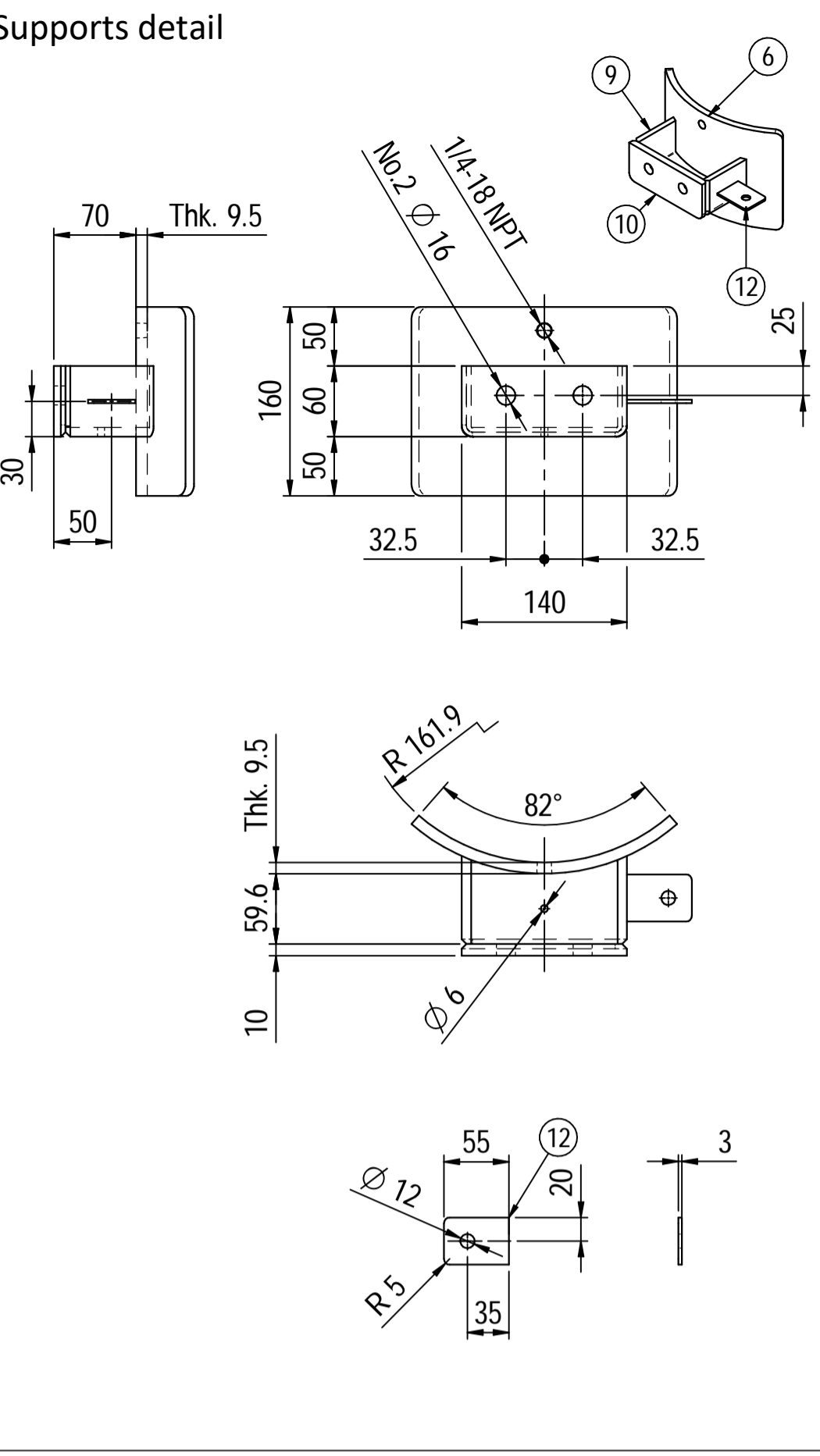


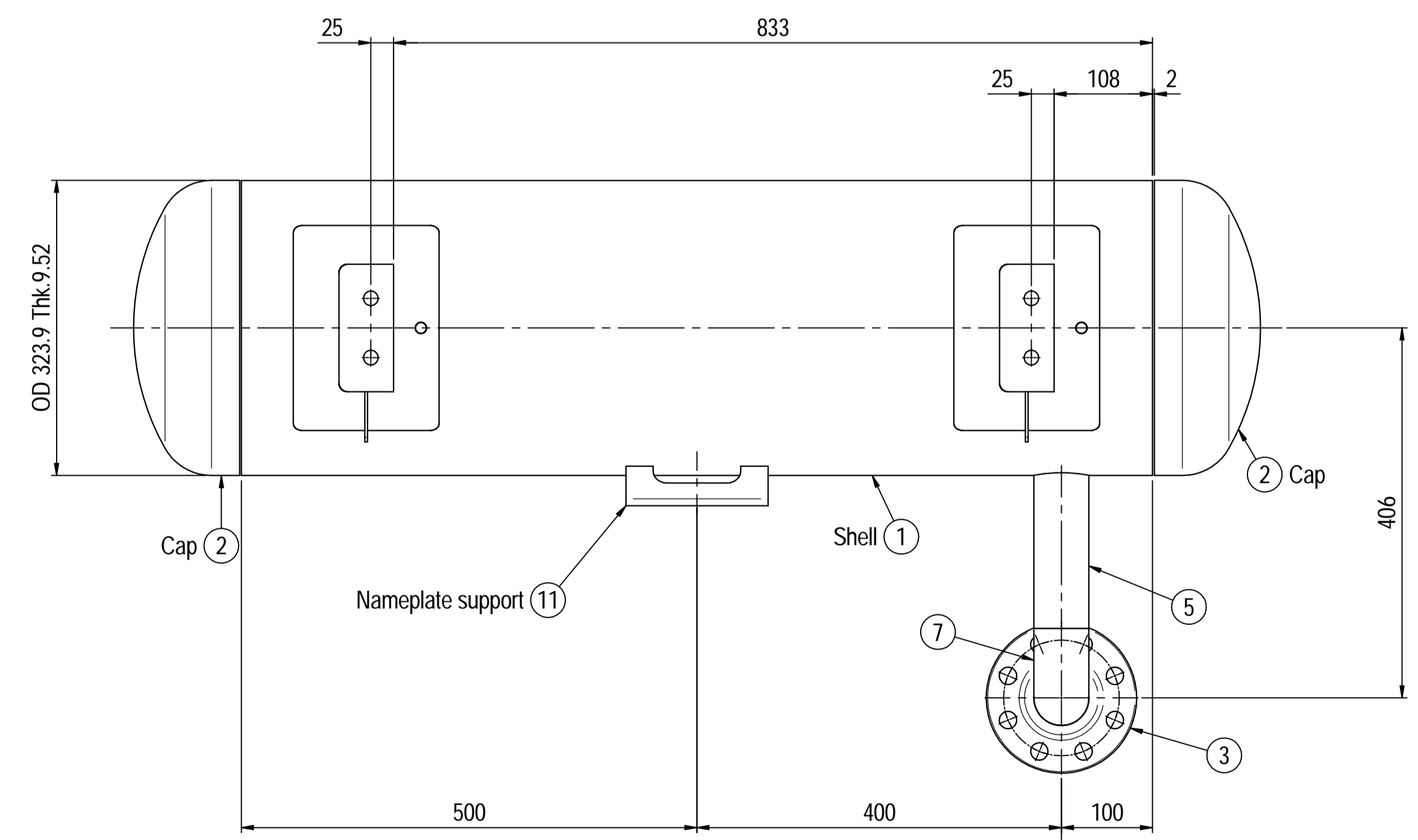
OWNER:  شرکت سست و سویی گیس ایرپک (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
MC :  شرکت سست و سویی گیس ایرپک (سهامی خاص)	PULSATION DAMPER DETAIL DRAWING FOR NITROGEN GAS BOOSTER								
Owner Document Number: 17811-23C								Project	Area
	BU	20	VD	303	ME	DWG	0079	Rev.:	Page
								00	1 of 6

PULSATION DAMPER DETAIL DRAWING FOR NITROGEN GAS BOOSTER

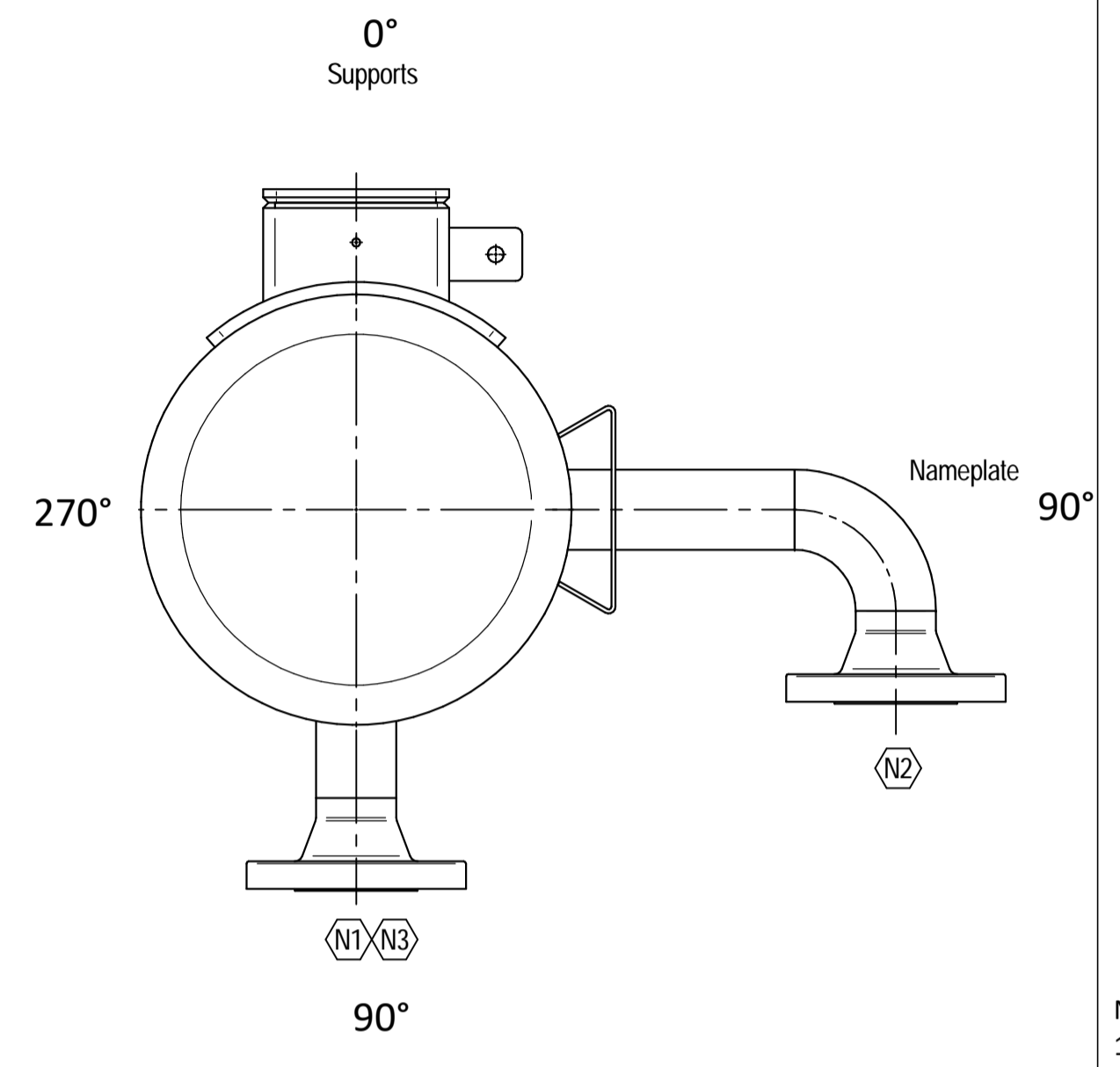
00	06/04/2022	For approval			KP	CL	JR	
Rev.	Date	Purpose of Issue			Prepared	Checked	Approved	AC Code
							Class: 1	Phase: P



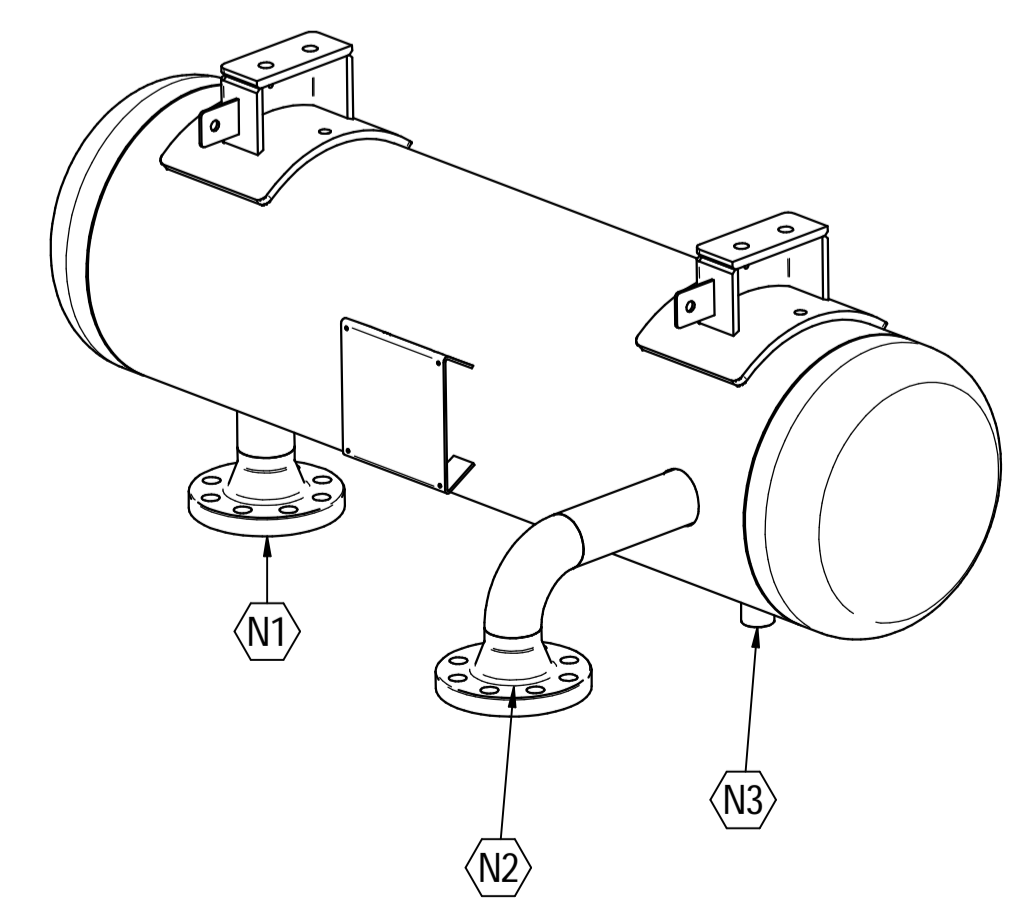
ELEVATION VIEW



PLAN VIEW



ORIENTATION VIEW



ISOMETRIC VIEW scale 1:8

Material List				
Pos.	Q.ty	Description	Mat.	Cert.
1	1	Shell by pipe 12" Sch.STD L=1000	SA106 Gr.B	3.1
2	2	Reduced cap 12" Sch.STD	SA234 WPB	3.1
3	2	Flange 2" WN #300 RF Sch.160	A105	3.1
4	1	Seamless pipe 2" Sch.160	A106 GrB	3.1
5	1	Seamless pipe 2" Sch.160	A106 GrB	3.1
6	2	Pad by pipe 12" Sch.STD	A106 Gr.B	3.1
7	1	Seamless elbow 2" 90° LR Sch.160	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
12	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 C220006CLC010 for vessel calculation.

ITEM	QTY	SERVICE	SIZE	PIPE O.D.	THK	RATING	FLANGE TYPE	FACE	PAD 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	#300	WN	RF	-	-	8.5 + 10
N1	1	AIR INLET	2"	60.3	8.74	#300	WN	RF	-	-	8.5 + 10

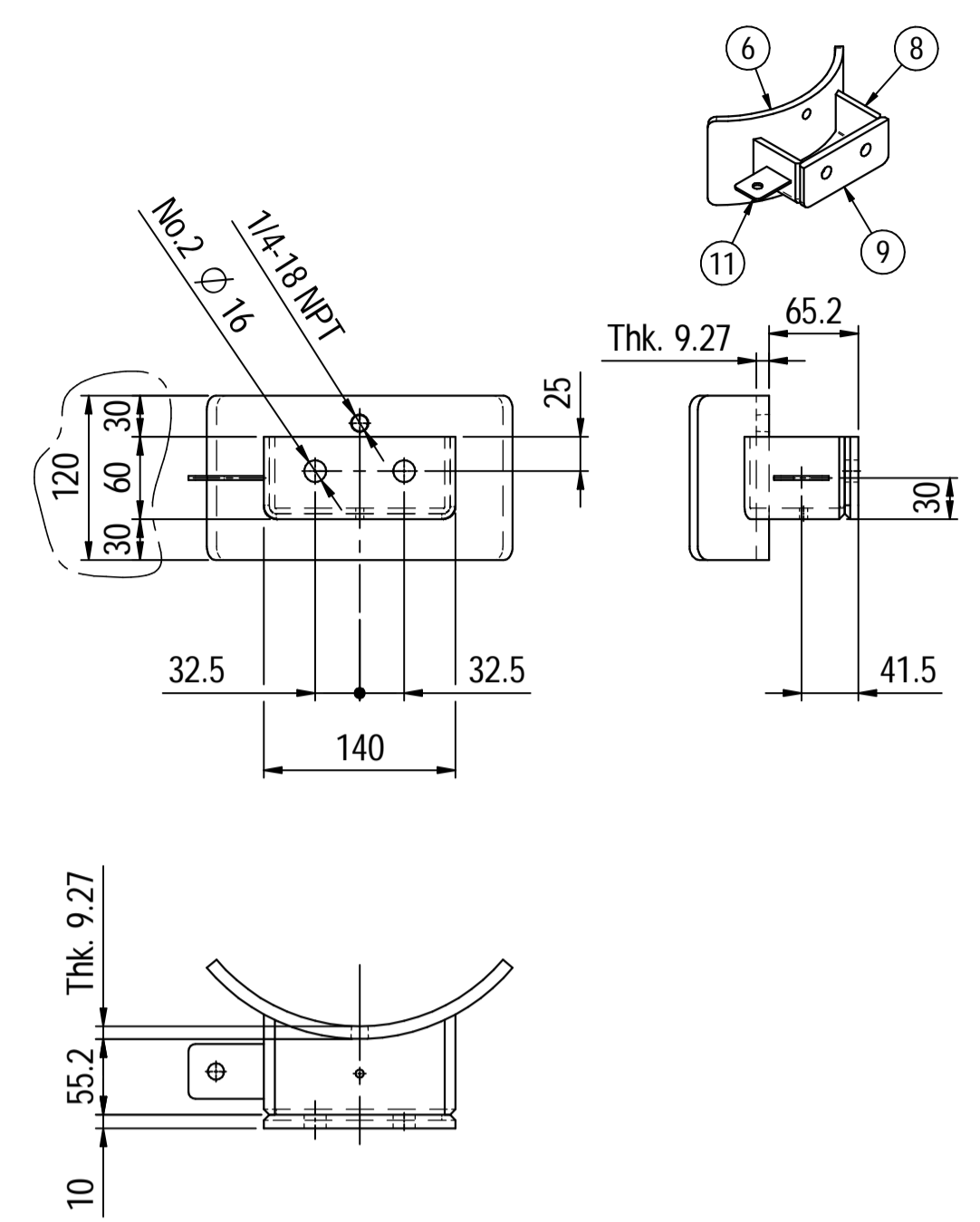
DATI DI PROGETTO / Design data			
FLUIDO	Nitrogen	COLLAUDO	Test
STATO FISICO DEL FLUIDO	Gas	NATIONAL BOARD REGISTRATION	NO
CODICE DI CALCOLO	ASME VIII Div. 1 Ed.2021	CANADIAN REGISTER NUMBER	NO
PRESSIONE DI ESERCIZIO	14.5 bara	SERVIZIO LETALE	NO
PRESSIONE DI PROGETTO	26 barg	R-T examination	Spot (RT3)
PRESSIONE ESTERNA	NO	LICUIDI PENETRANTI	NO
PRESSIONE DI PROVA IDRAULICA	66.4 barg	ULTRASUONI	NO
TEMPERATURA DI ESERCIZIO	+134 °C	CONTROLLO MAGNETOSCOPICO	NO
TEMPERATURA DI PROGETTO	+170 °C	VALORINE DI SALDATURA	NO
SOVRAME TALLO DI CORROSIONE	3 mm	PROCEDIMENTO DI SALDATURA	See doc: C220006WBK013
EFFICIENZA GIUNTI	0.85	FORMAZIONE FONDO	CAP
MAWP @ Design Temperature	33.46 barg @ +170 °C	PESO A VUOTO	116 kg
MDMT @ MAWP	0 °C @ 33.46 barg	PESO PIENO D'ACQUA	214 kg
TRATTAMENTO TERMICO	NO	DATI DEL VENTO	-
IMPACT TEST	NO	DATI SISMICI	-

Rev.	Descrizione / Description	Disegnato/Draw	Controllato/Checked	Approvato/Approved	Data/Date
01	Modified strenght lenght on cap	CM	MV	GL	30/03/2022
00	FIRST ISSUE	CM	MV	GL	16/03/2022

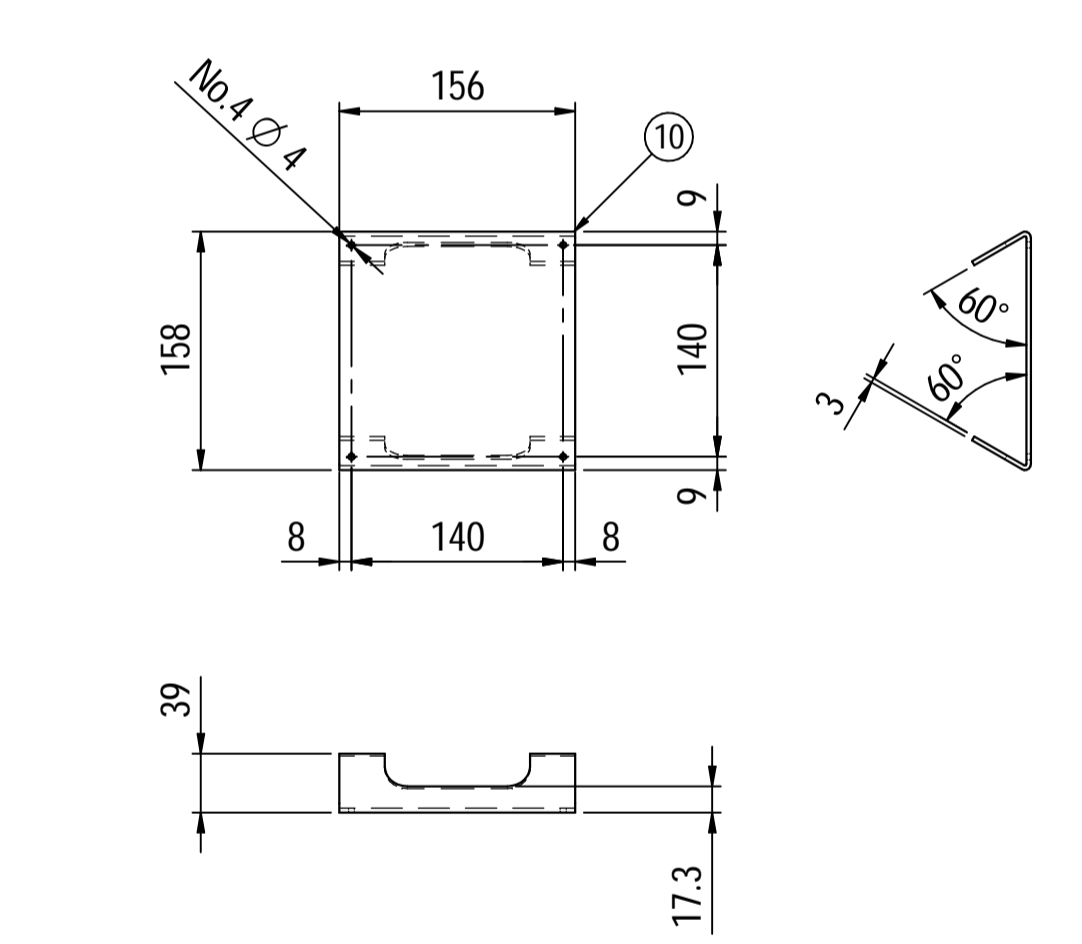
Oggetto/Object: N2 PULSATION DAMPER 1st STAGE DISCHARGE

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.	C220006DWG004	Rev.	01

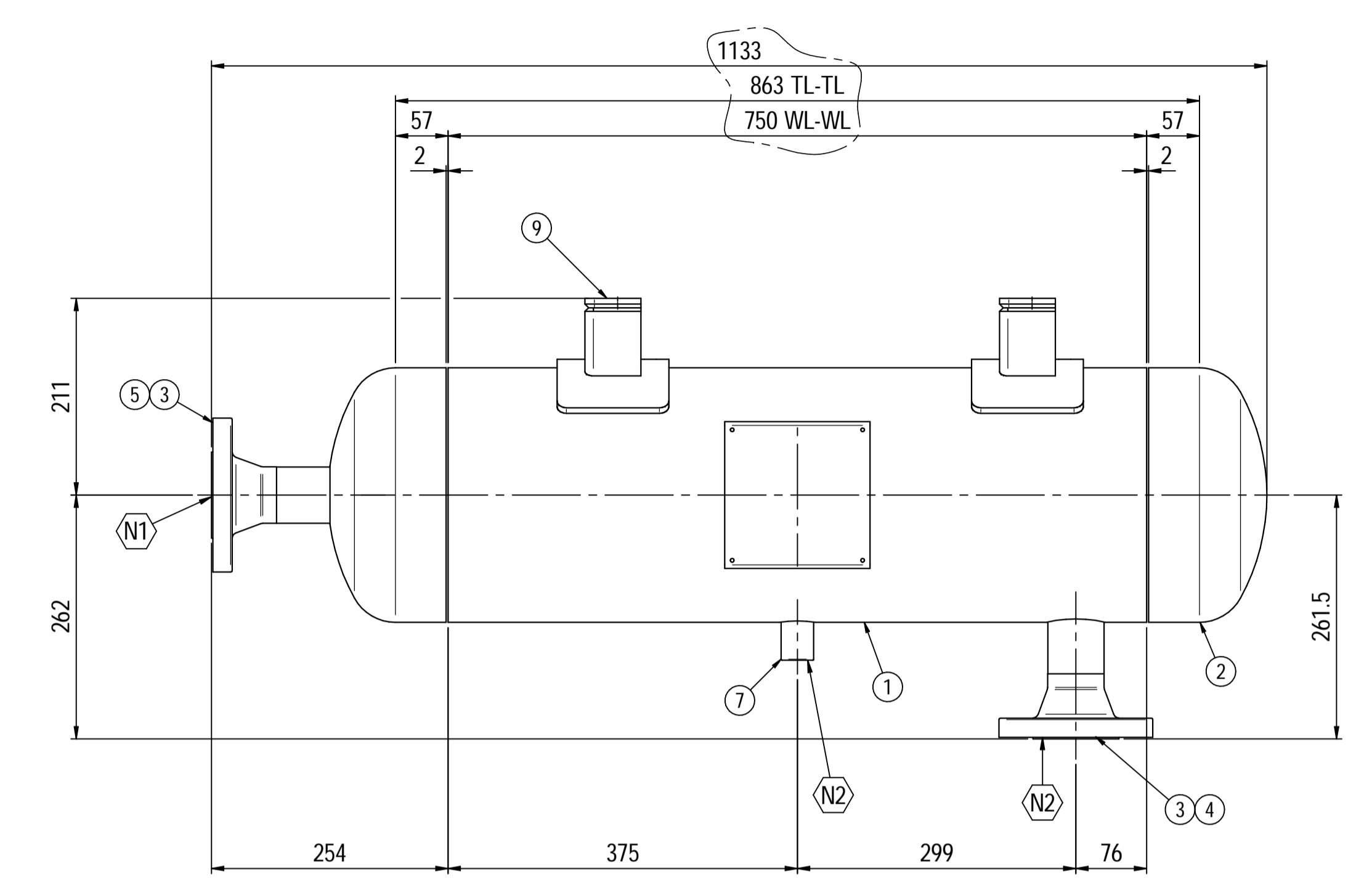
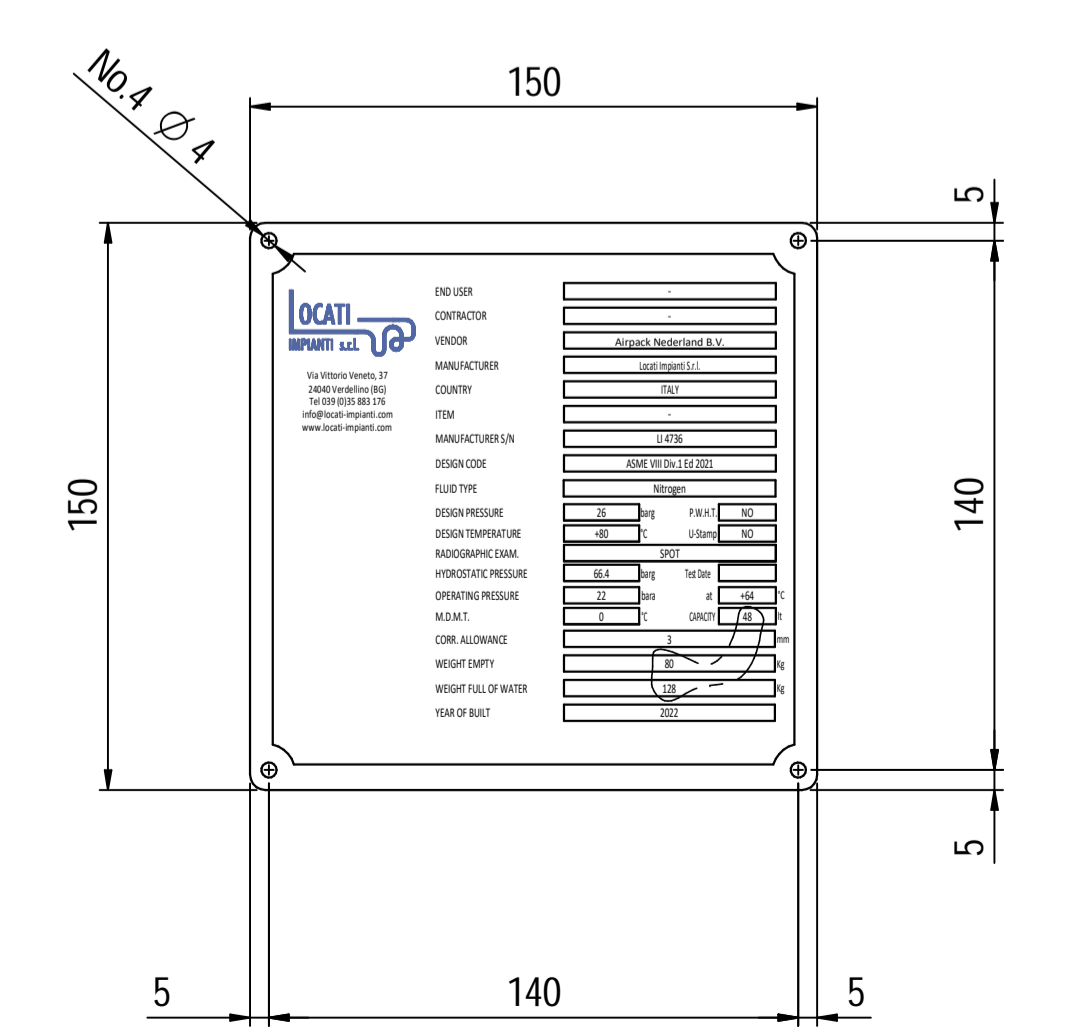
Supports detail



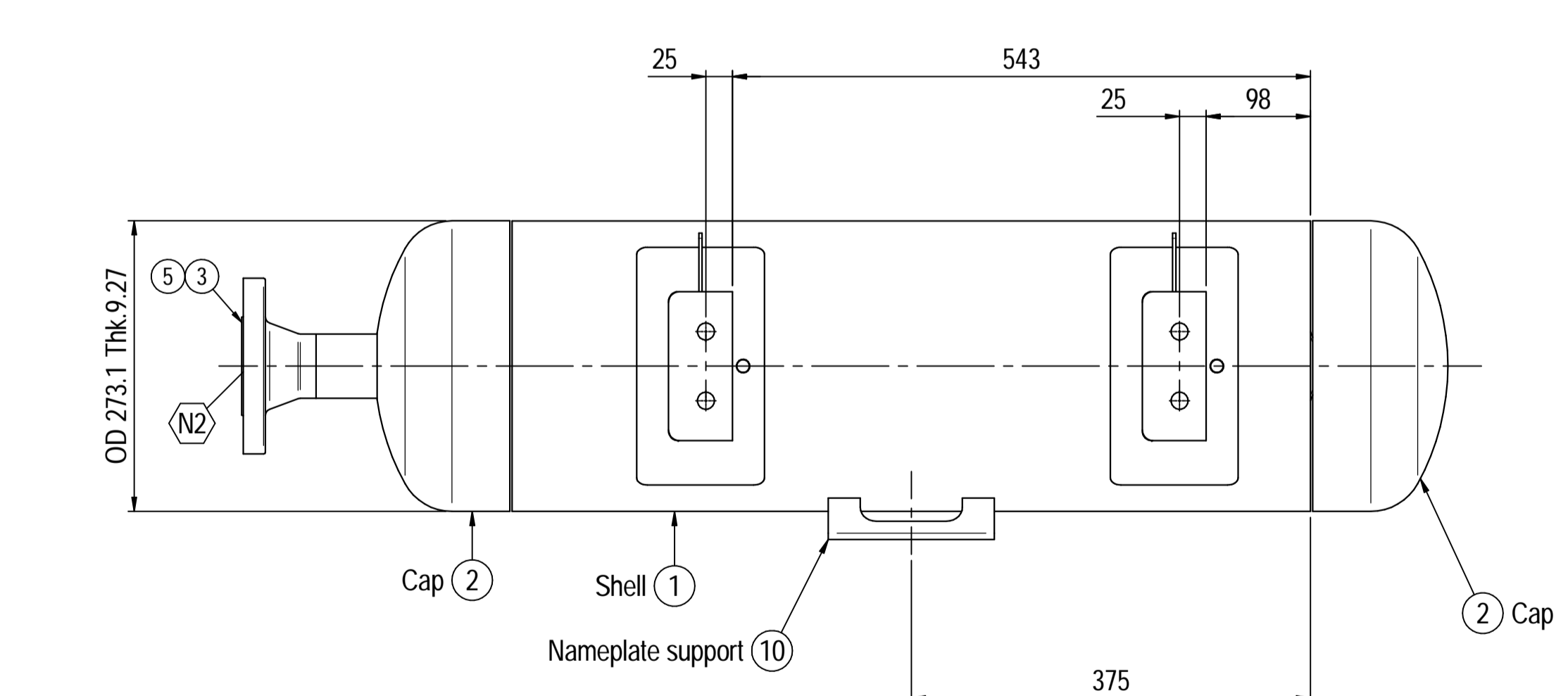
Nameplate detail



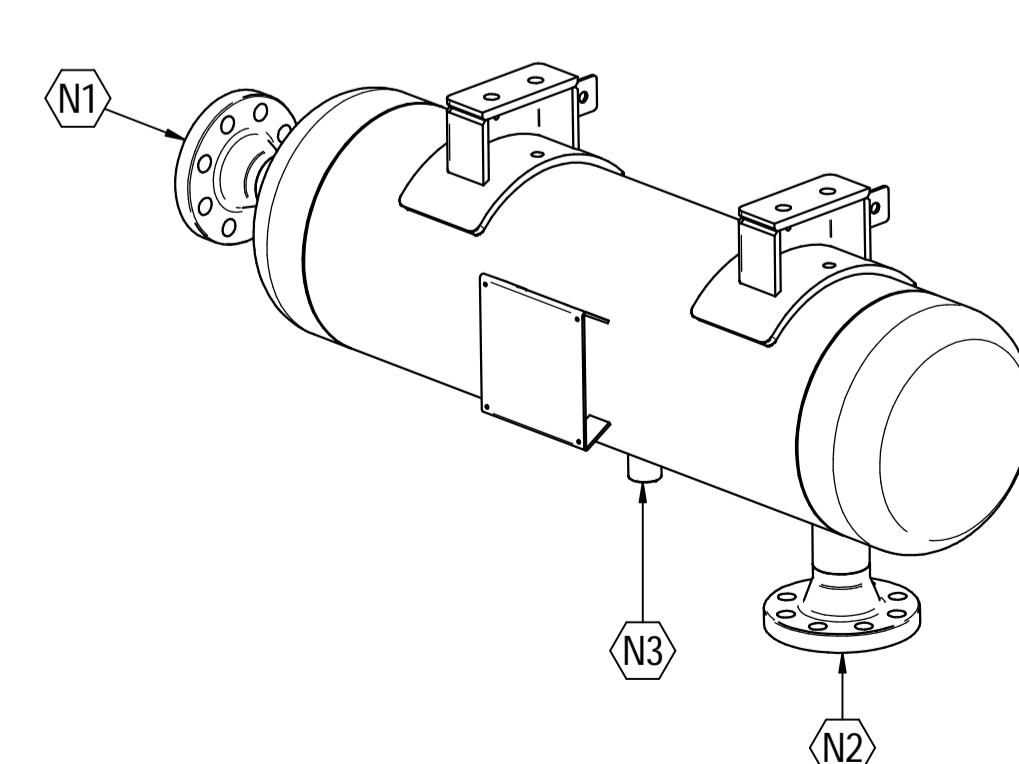
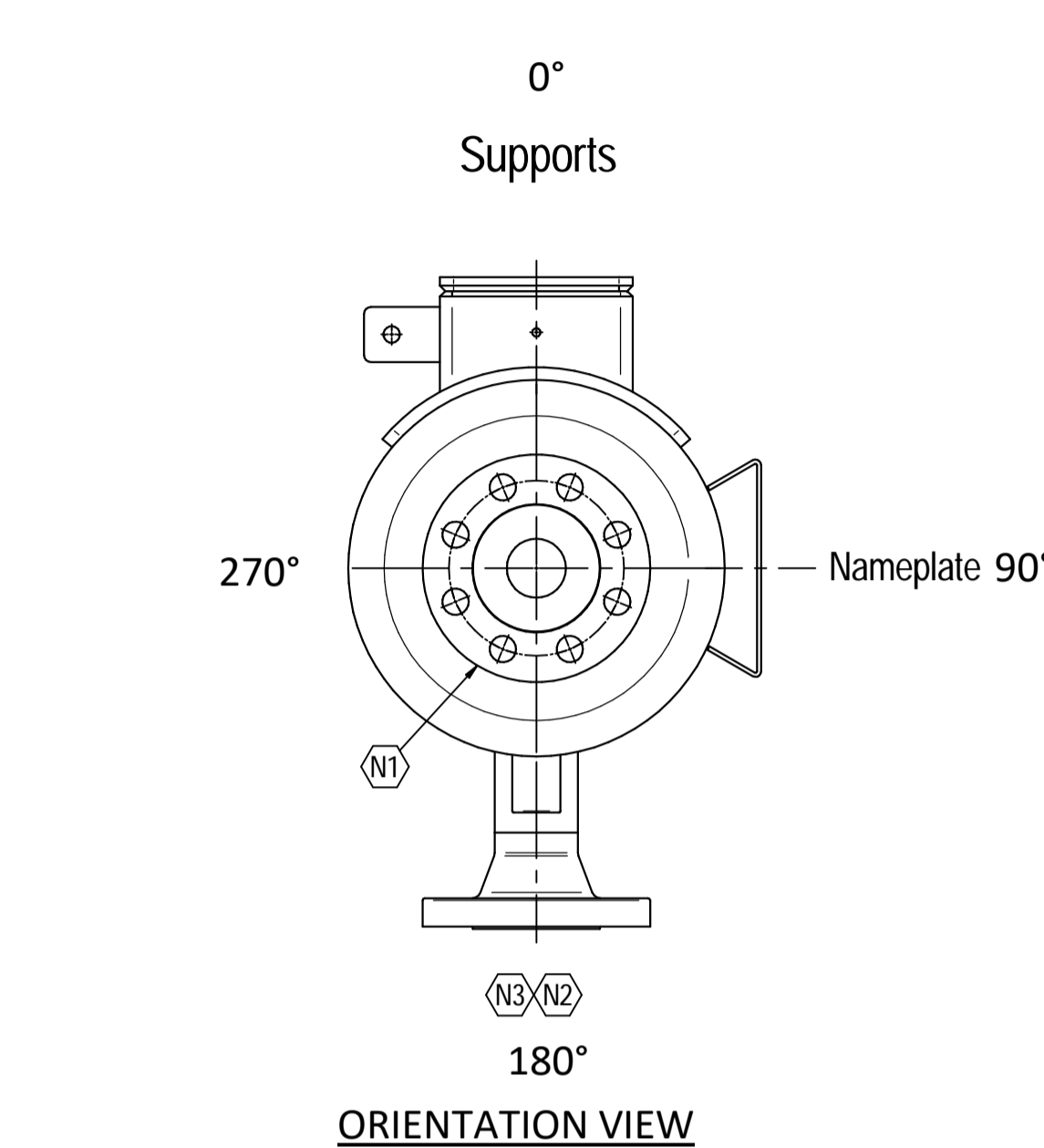
Nameplate detail scale 1:2



ELEVATION VIEW



PLAN VIEW



ISOMETRIC VIEW scale 1:8

Material List					
Pos.	Q.ty	Description	Mat.	Cert.	
1	1	Shell by seamless pipe 10" Sch.STD (L=750)	SA106 Gr.B	3.1	
2	2	Cap 10" Sch40	A234 WPB	3.1	
3	2	Flange 2" WN #300 RF Sch.160	A105	3.1	
4	1	Seamless pipe 2" Sch160 L=68	A106 GrB	3.1	
5	1	Seamless pipe 2" Sch160 L=65	A106 GrB	3.1	
6	2	Pad by pipe 10" Sch.STD	A106 Gr.B	3.1	
7	1	Coupling 1/2" NPT #6000	A105	3.1	
8	2	Plate 74.5x231 Thk.8	A516 70	3.1	
9	2	Plate 16x65 Thk.10	A516 70	3.1	
10	1	Nameplate support 234 x 156 thk3mm	S275 JR	3.1	
11	2	Earthing Plate 55 x 40 Thk.3	A240 TP316L	3.1	

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 C220006CLC012 for vessel calculation.

ITEM	QTY	SERVICE	SIZE	O.D.	THK	RATING	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	#300	WN	RF	-	-	8.5 + 10
N1	1	AIR INLET	2"	60.3	8.74	#300	WN	RF	-	-	8.5 + 10

DATI DI PROGETTO / Design data			
FLUIDO	Nitrogen	COLLAUDO	Test
STATO FISICO DEL FLUIDO	Gas	NATIONAL BOARD REGISTRATION	NO
STATO FISICO DEL FLUIDO	Gas	CANADIAN REGISTER NUMBER	NO
CODICE DI CALCOLO	ASME VIII Div. 1 Ed.2021	SERVIZIO LETALE	NO
PRESSIONE DI ESERCIZIO	23 bara	RT examination	Spot (RT3)
PRESSIONE DI PROGETTO	26 barg	LICUIDI PENETRANTI	NO
PRESSIONE ESTERNA	NO	Dye penetrant extension	NO
PRESSIONE DI PROVA IDRAULICA	66.4 barg	ULTRASUONI	NO
TEMPERATURA DI ESERCIZIO	+64 °C	ULTRASUONI	NO
TEMPERATURA DI PROGETTO	+80 °C	CONTROLLO MAGNETOSCOPICO	NO
SOVRAMMENTO DI CORROSIONE	3 mm	Magnetic particle examination	NO
CAPACITA'	48 l	WELD TISSUE	NO
EFFICIENZA GIUNTI	0.85	PROCEDIMENTO DI SALDATURA	See doc: C220006WBK013
MAWP @ Design Temperature	38.12 barg @ +80 °C	Welding procedure	See doc: C220006WBK013
MAWP(EXT)	NO	TIPO DI FONDO	CAP
MDMT @ MAWP	0 °C @ 38.12 barg	Head type	CAP
TRATTAMENTO TERMICO	NO	FORMAZIONE FONDO	HOT
P.W.H.T.	NO	Head form	HOT
IMPACT TEST	NO	PESO A VUOTO	80 kg
Exemption	NO	PESO IN ESERCIZIO	80 kg
		PESO PIENO D'ACQUA	128 kg
		Full water weight	
		DATI DEL VENTO	
		Wind datas	
		DATI SISMICI	
		Seismological datas	

Rev.	Descrizione / Description	Disegnato/Draw	Controllato/Checked	Approvato/Approved	Data/Date
01	Modified shell length	CM	MV	GL	30/03/2022
00	FIRST ISSUE	CM	MV	GL	16/03/2022

Oggetto/Object N2 PULSATION DAMPER 2nd STAGE DISCHARGE			
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.	C220006DWG006	Rev.	01

