





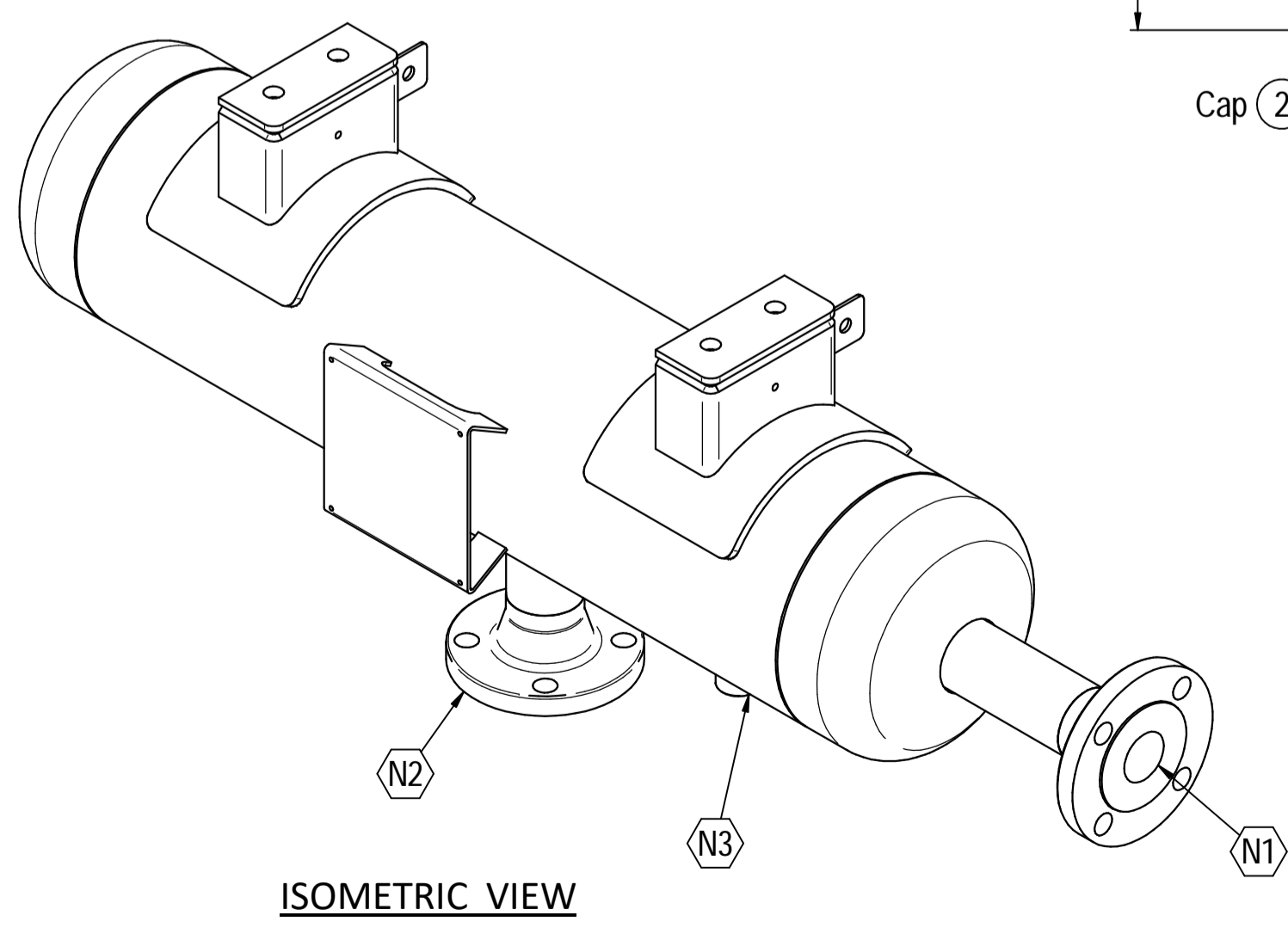
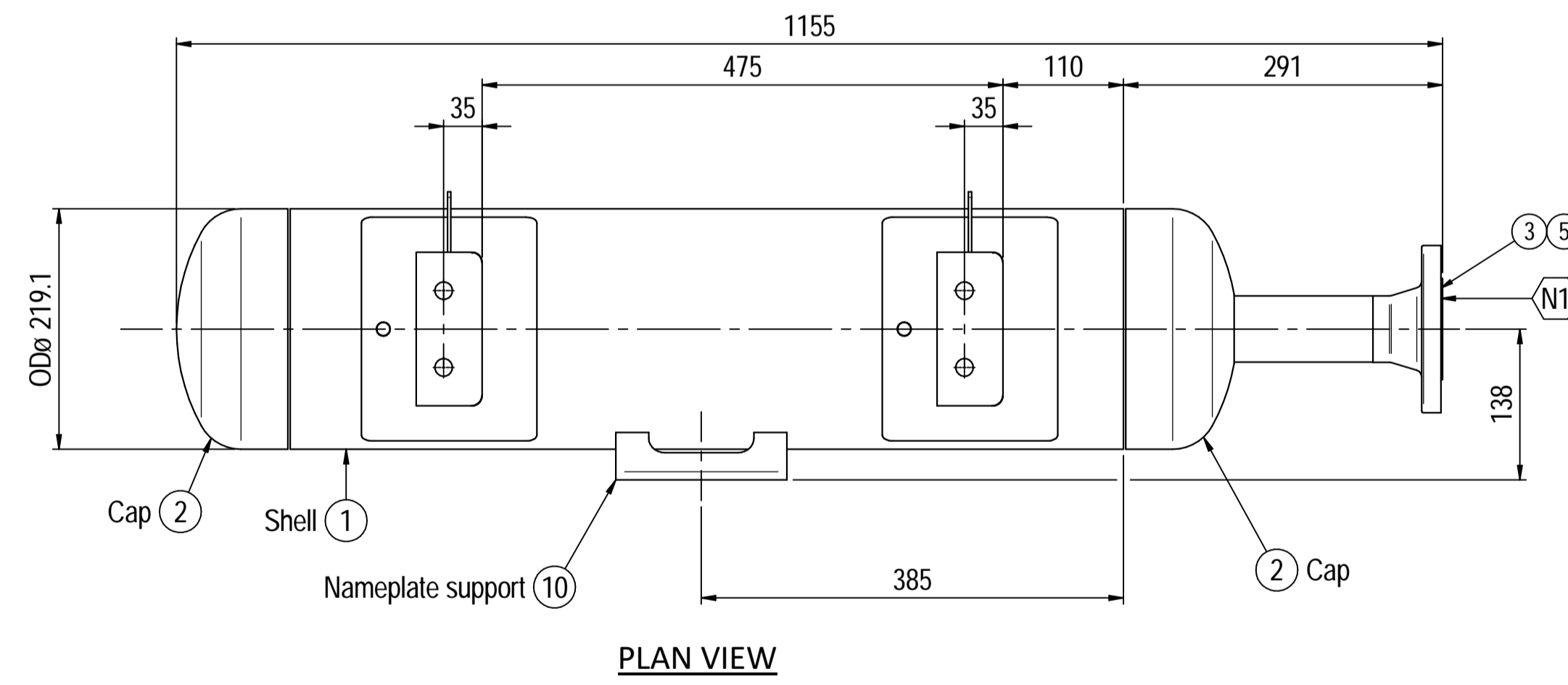
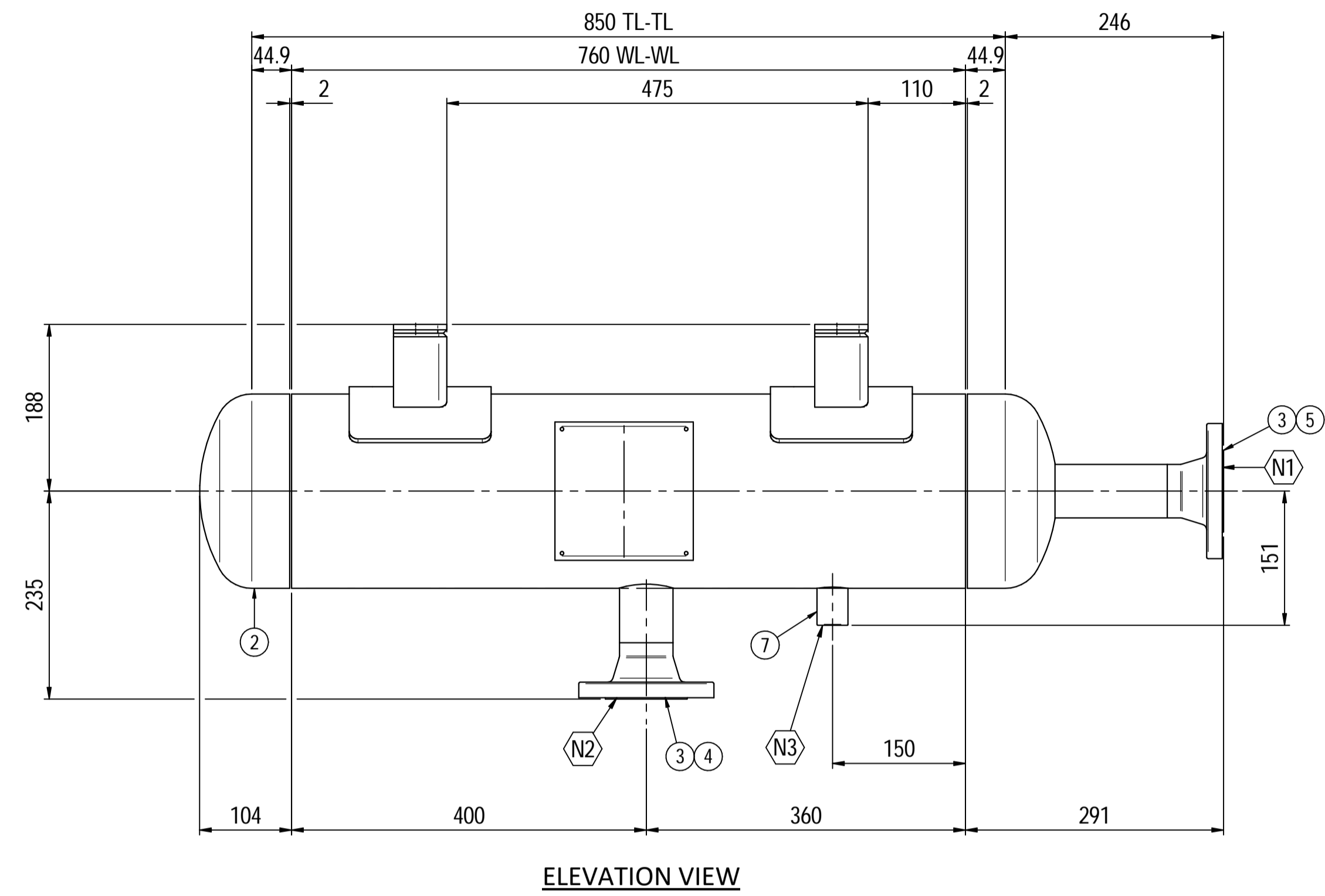
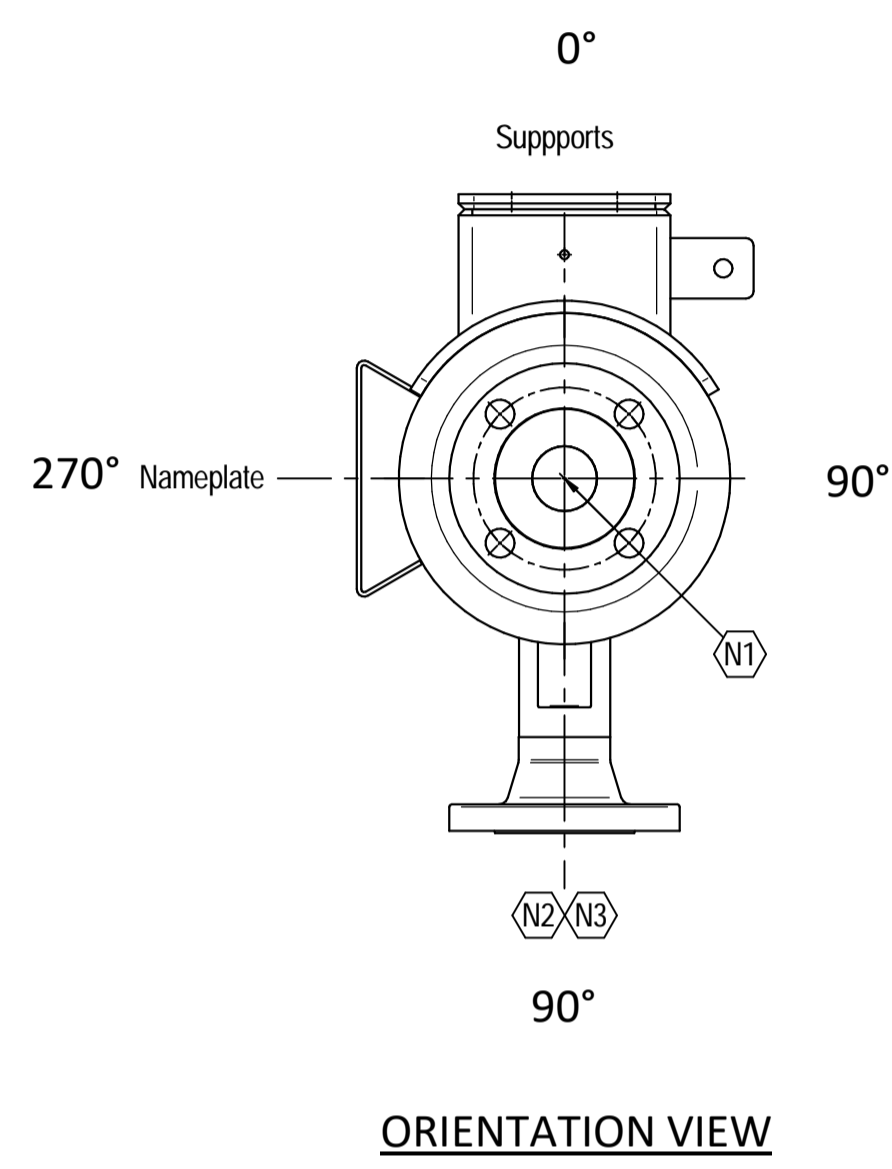
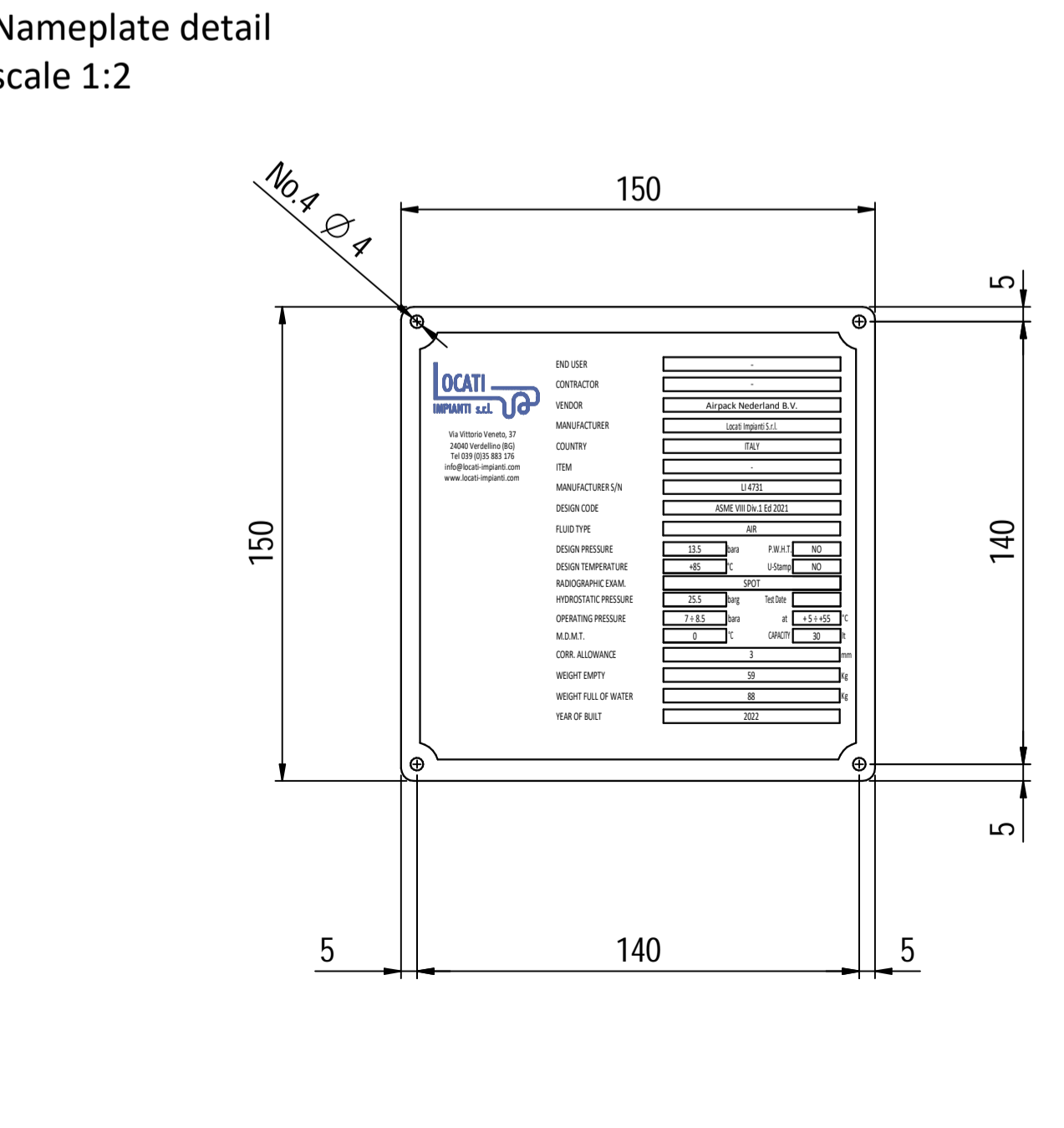
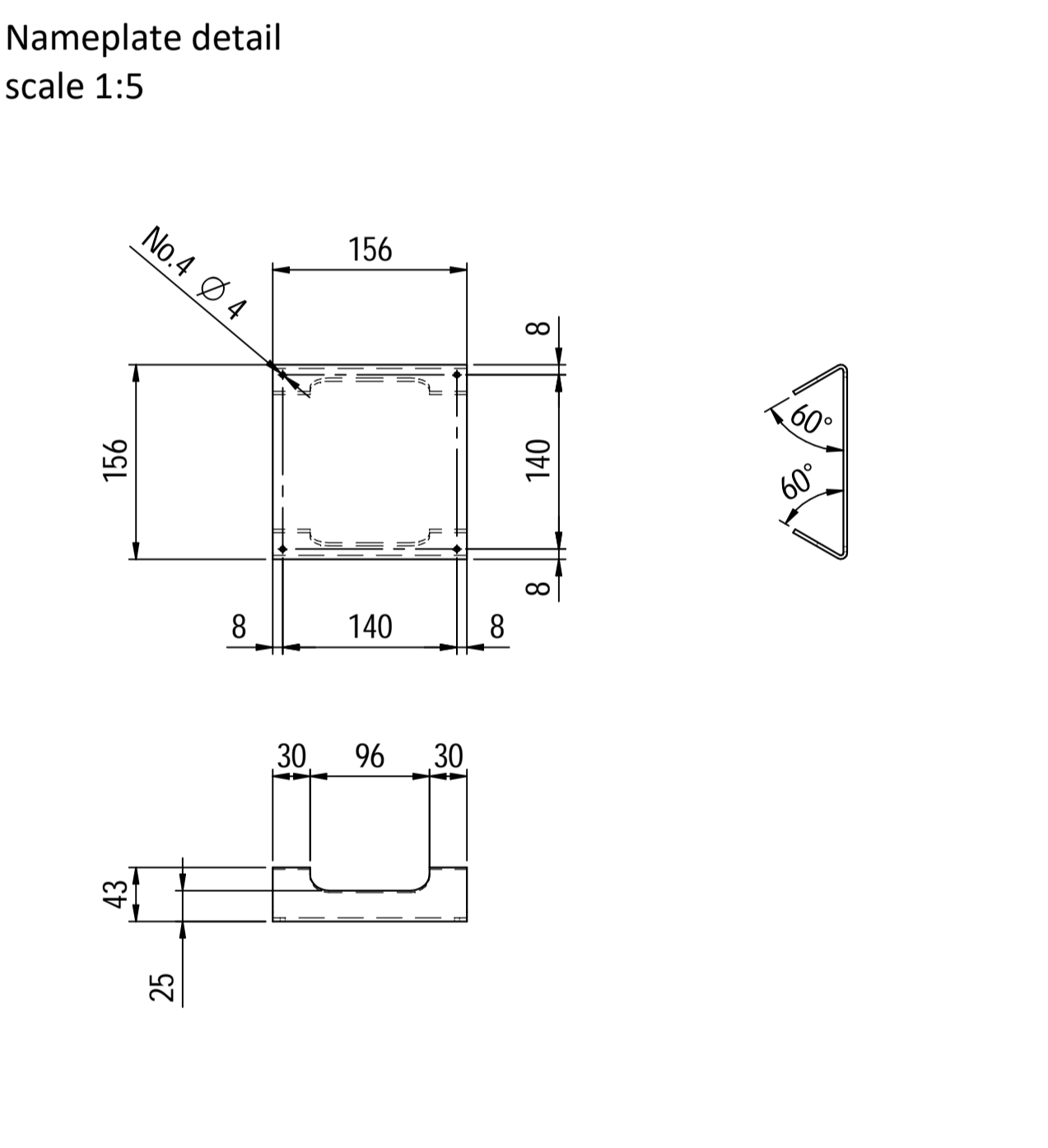
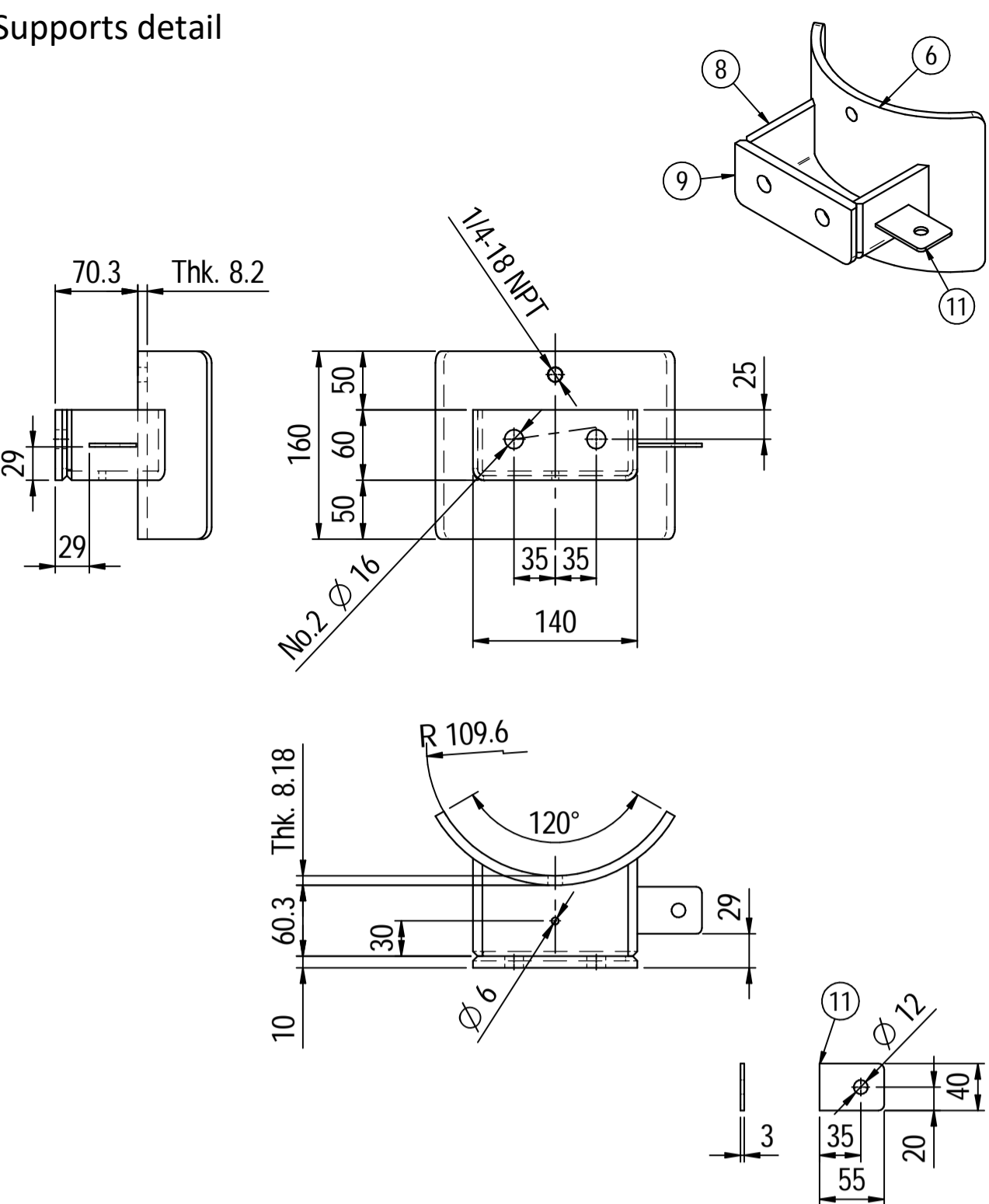


OWNER:  شرکت سست و سویی توهمه ایرانیان (سهامی عامه)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	PULSATION DAMPER DETAIL DRAWING FOR EMERGENCY INSTRUMENT AIR COMPRESSOR								
MC :  شرکت سست و سویی توهمه ایرانیان (سهامی عامه)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-23D	BU	20	VD	303	ME	DWG	0080	Rev.:	Page
								06	1 of 4

PULSATION DAMPER DETAIL DRAWING FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 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:	AB	
Result Code: AP,AN,CM,RE,NC	AP	
Next Status : IFC,IFA,IFI,AFC,AB	-	
Responsible Department	MECHANIC	
Commented Date	Apr.30.2023	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

06	26/04/2023	As Built	KP	CL	JR	
05	16/06/2022	Approved for Construction	KP	CL	JR	
04	03/06/2022	Approved for Construction	KP	CL	JR	
03	13/05/2022	Approved for Construction	KP	CL	JR	
02	06/05/2022	Approved for Construction	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 8" Sch.40 L=760	A106 Gr.B	3.1
2	2	Cap 8" Sch40	A234 WPB	3.1
3	2	Flange 2" WN 150# Sch160	SA105	3.1
4	1	Seamless pipe 2" Sch160 L=74	A106 Gr.B	3.1
5	1	Seamless pipe 2" Sch160 L=72	A106 Gr.B	3.1
6	2	Pad by pipe 8" Sch.40	A106 Gr.B	3.1
7	1	Coupling 1/2" NPT #6000	A105	3.1
8	2	Plate 83x231 Thk.8	A516 70	3.1
9	2	Plate 60x140 Thk.10	A516 70	3.1
10	1	Nameplate support 156x241 Thk.3mm	A516 70	3.1
11	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 fittings 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 C220006CLC007 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	#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	Air	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	7 - 8.5 bara	SERVIZIO LETALE	NO
PRESSIONE DI PROGETTO	13.5 bara (12.5 barg)	X-RAY	RT examination
PRESSIONE ESTERNA	NO	LIQUIDI PENETRANTI	NO
PRESSIONE DI PROVA IDRAULICA	25.5 barg	ULTRASUONI	NO
TEMPERATURA DI ESERCIZIO	5 + 55°C	CONTROLLO MAGNETOSCOPICO	NO
TEMPERATURA DI PROGETTO	85 °C	TALLONE DI SALDATURA	NO
SOVRAME TALLO DI CORROSIONE	3 mm	PROCEDIMENTO DI SALDATURA	See doc C220006WBK013
CAPACITA'	30 l	TIPO DI FONDO	CAP
EFFICIENZA GIUNTI	0.85	FORMAZIONE FONDO	HOT
MAWP @ Design Temperature	18.15 barg @ +85°C	PESO A VUOTO	59 kg
MAWP(EXT)	NO	PESO IN ESERCIZIO	59 kg
MDMT @ MAWP	0 °C @ 18.15 barg	PESO PIENO D'ACQUA	88 kg
TRATTAMENTO TERMICO	NO	DATI DEL VENTO	-
IMPACT TEST	NO	DATI SISMICI	-

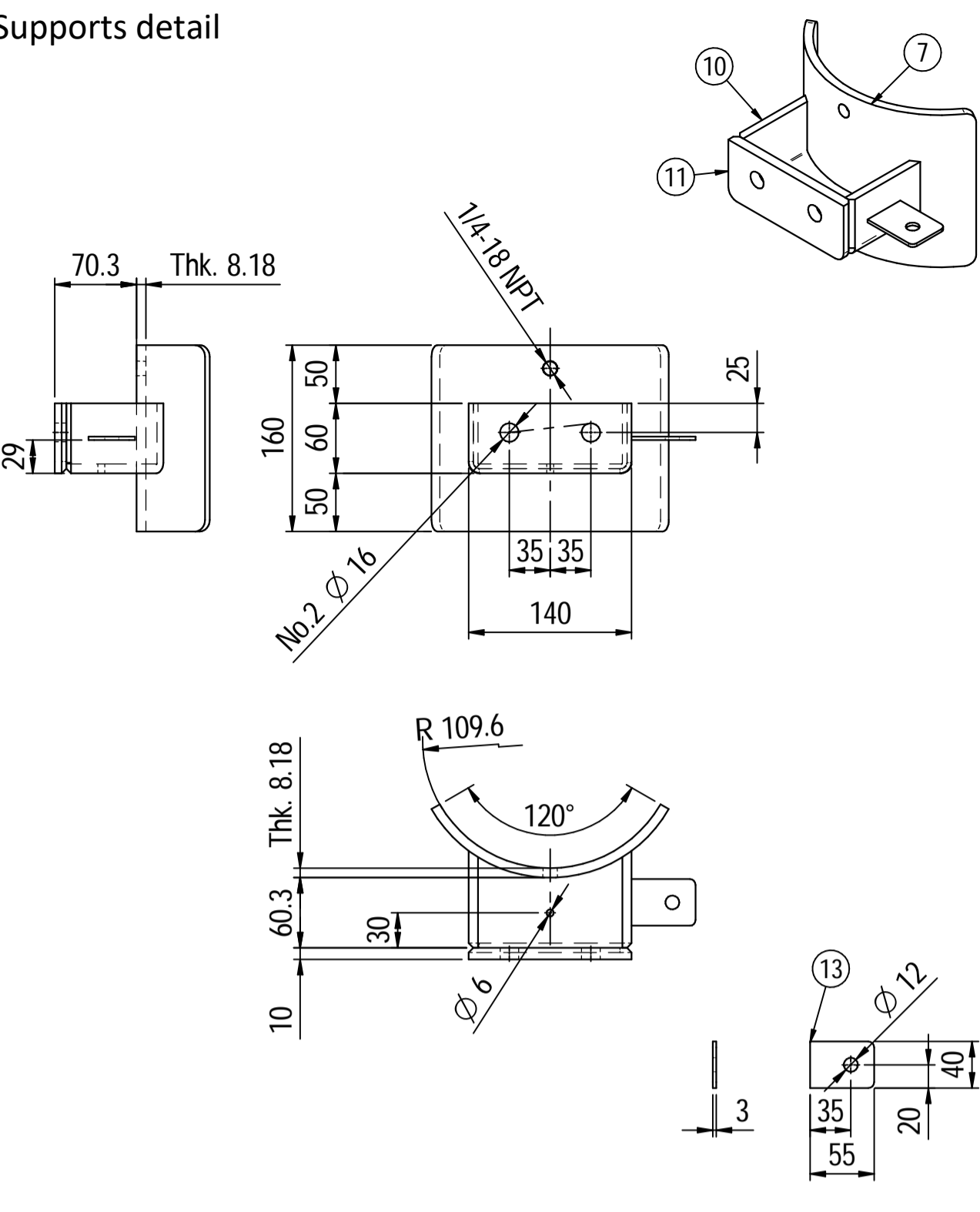
Rev.	Descrizione / Description	Disegnato/Draw	Controllato/Checked	Approvato/Approved	Data/Date
07	as built	CM	MV	GL	25/04/2023
04	Modified as per Client comments	CM	MV	GL	11/05/2022
03	Modified as per Client comments	CM	MV	GL	15/04/2022
02	Modified as per Customer comments	CM	MV	GL	02/04/2022
01	Modified earthing lug	CM	MV	GL	25/03/2022
00	FIRST ISSUE	CM	MV	GL	16/03/2022

Oggetto/Object: PULSATION DAMPER INLET

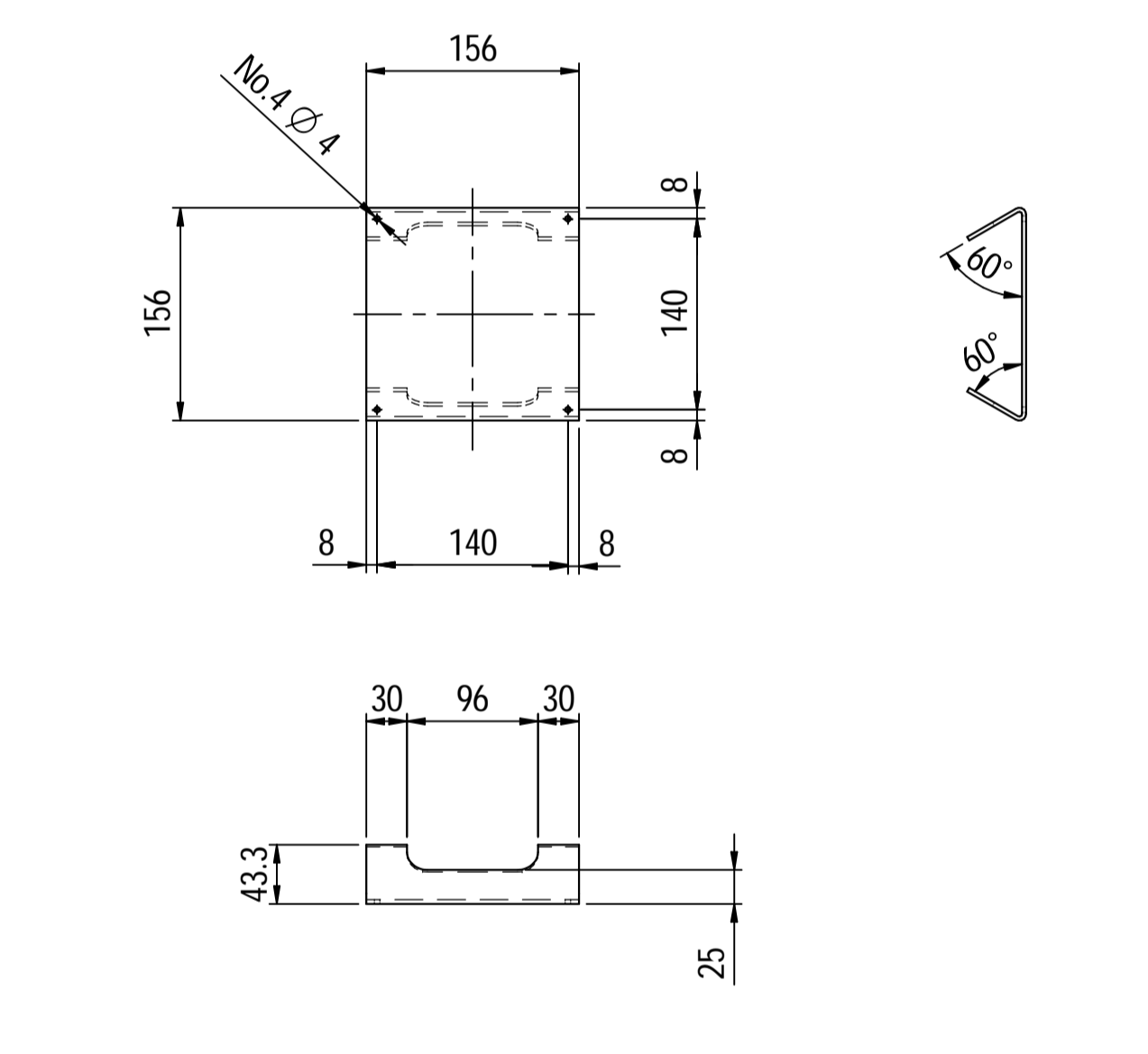
Scala/Scale	1 : 5	Formato/Size	A1
Comm. N°/Job No.	C220006	Foglio/Sheet	1 - 1
Cliente/Customer	Airpack Nederland B.V.		
Ord. No.	18498-VV-0901		
Dis. N°/Dwg No.	C220006DWG001	Rev.	07

LOCATI IMPIANTI s.r.l. Via Vittoria Veneto, 37 24040 Verdello (BG) Italy - P.I. +39 (0)35.883.176 Fax +39 (0)35.885.015 - e-mail: info@locatiimpianti.com http: www.locatiimpianti.com

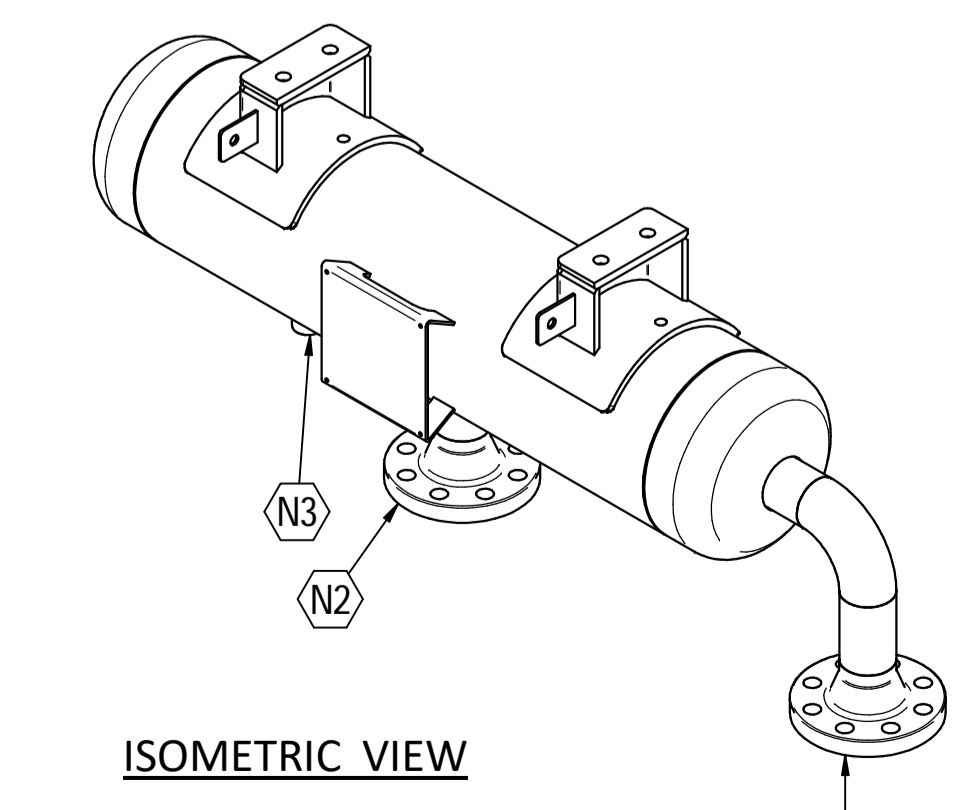
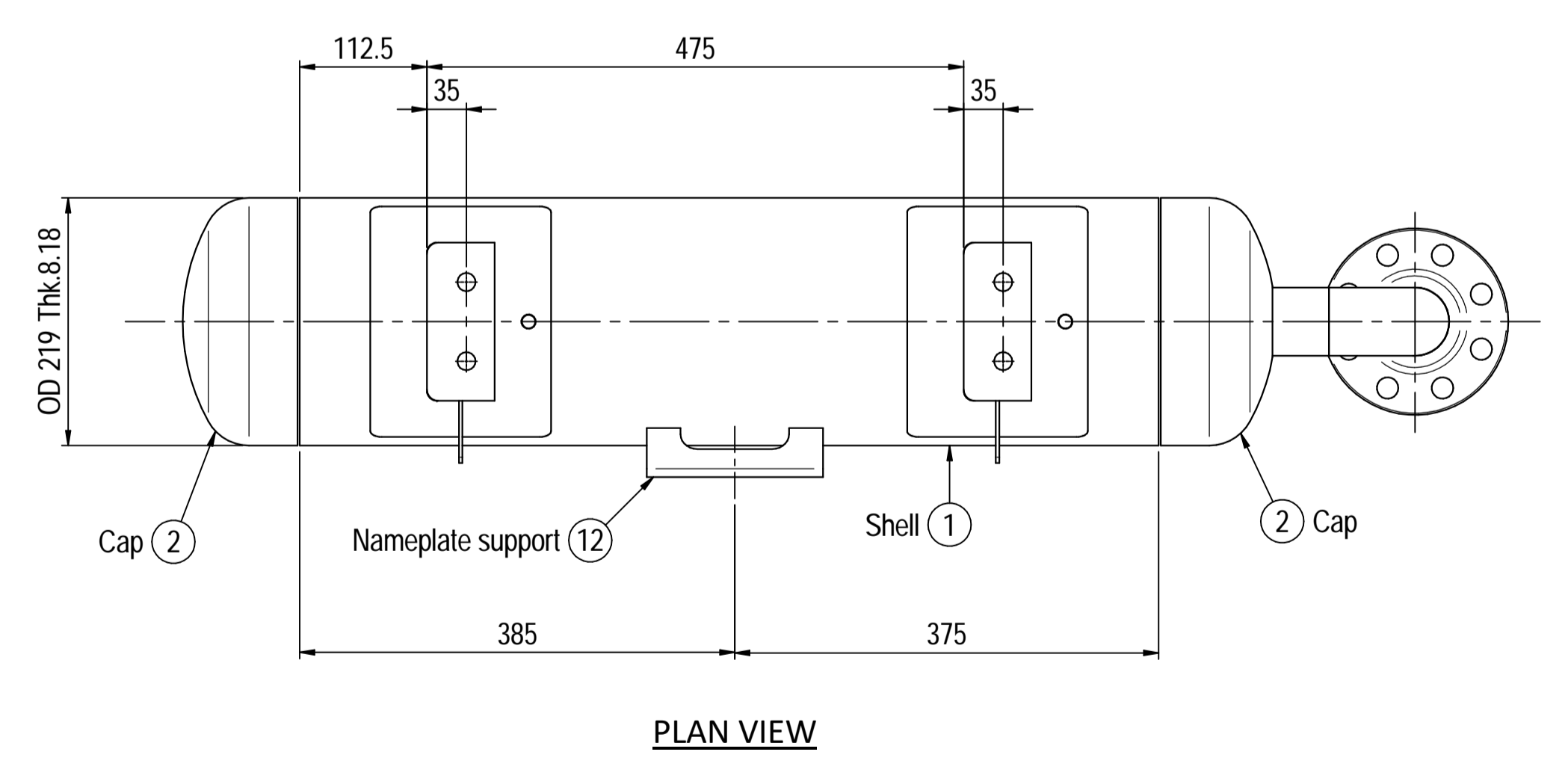
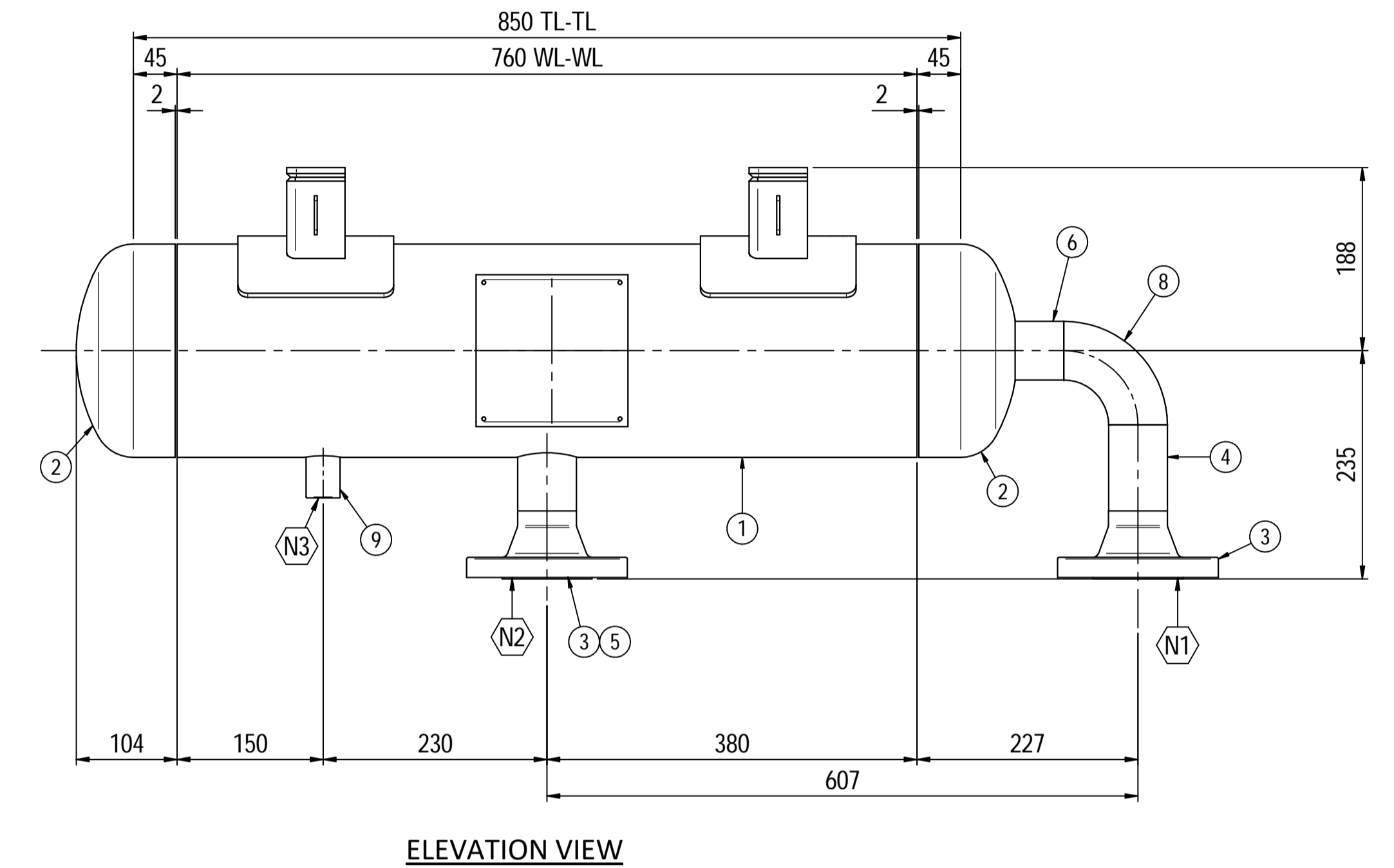
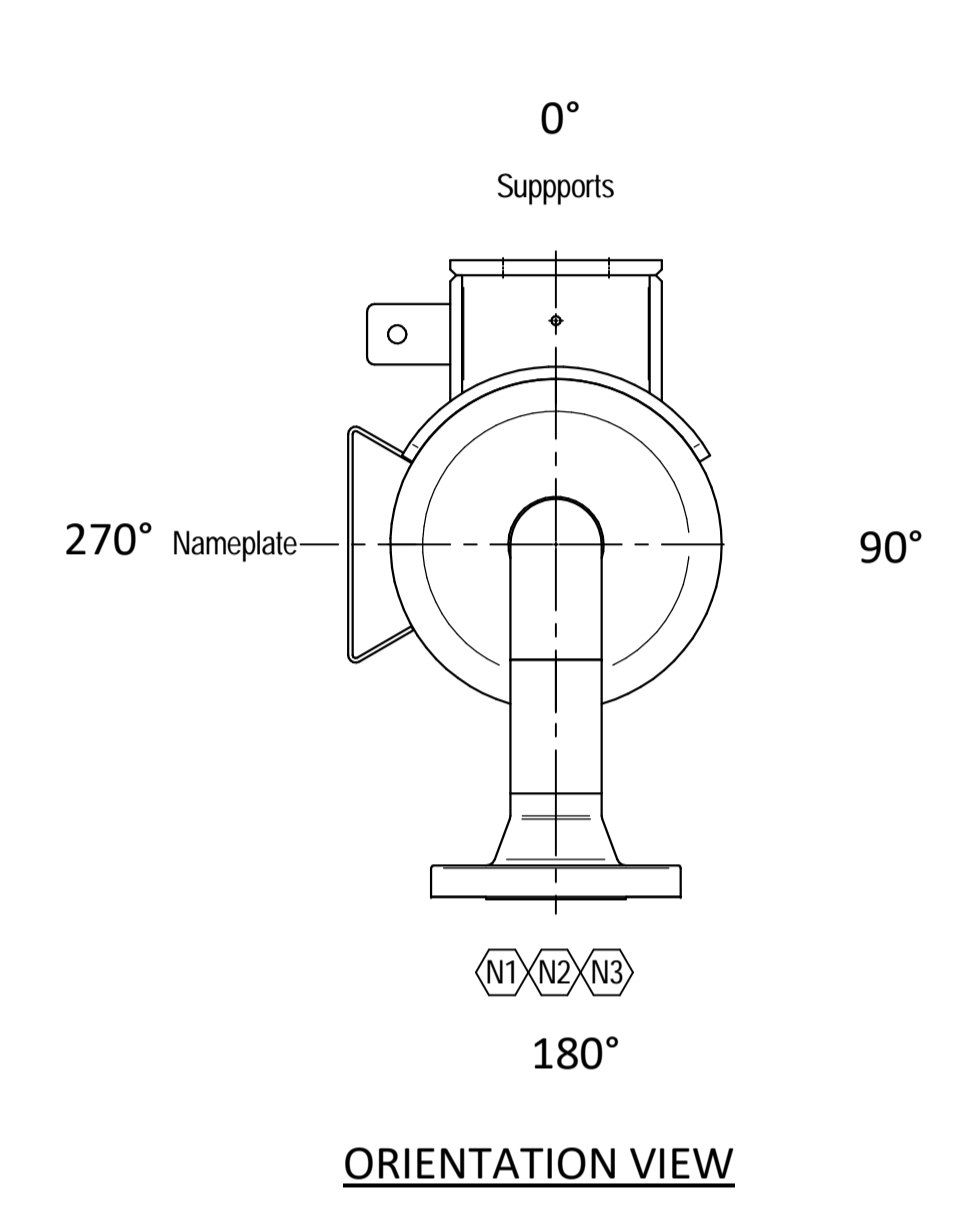
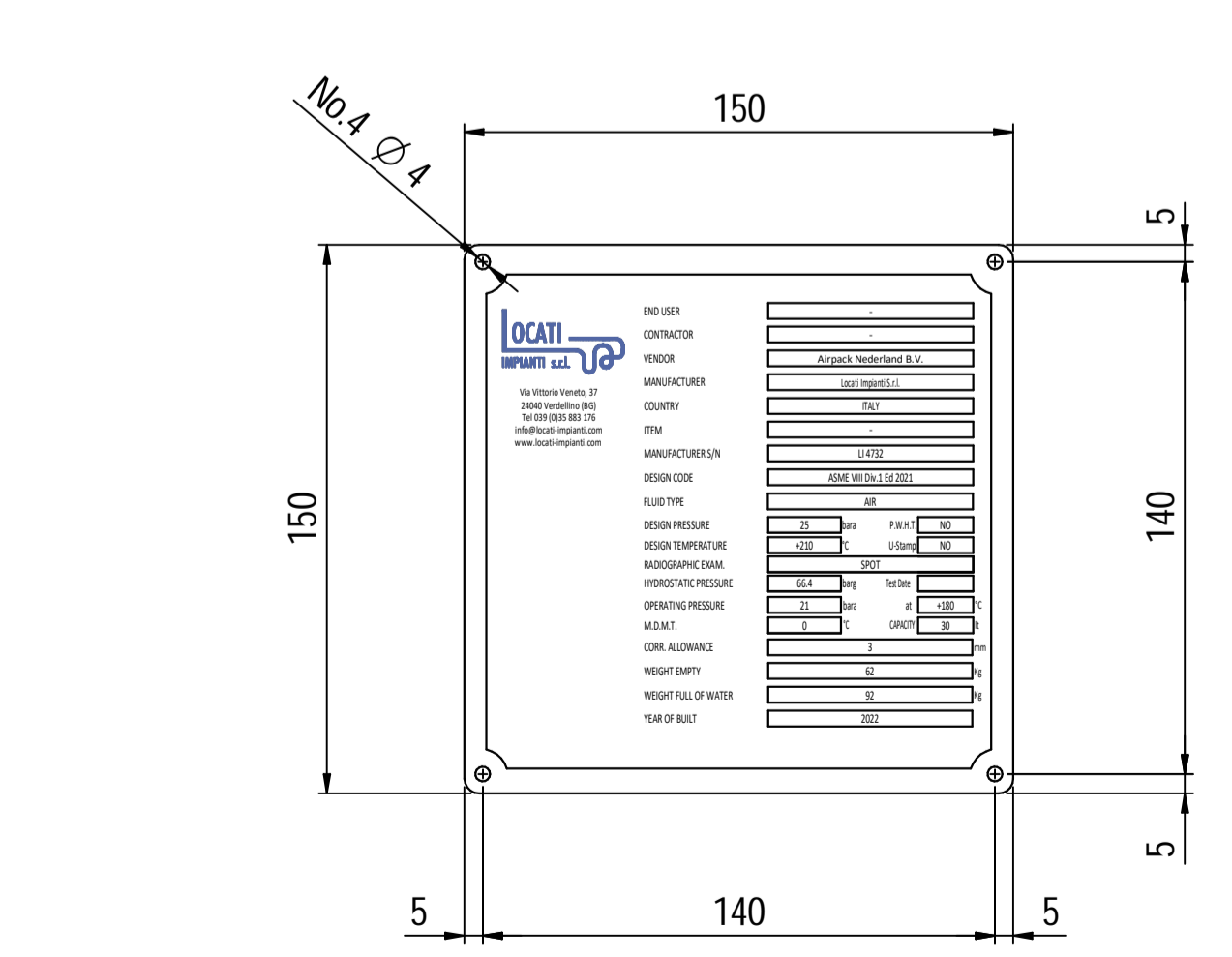
Supports detail



Nameplate support detail scale 1:5



Nameplate detail scale 1:2



Material List				
Pos.	Q.ty	Description	Mat.	Cert.
1	1	Shell by seamless pipe 8" Sch.40 L=760	SA106 Gr.B	3.1
2	2	Cap 8" Sch40	A234 WPB	3.1
3	2	Flange 2" WN #300 RF Sch.160	A105	3.1
4	1	Seamless pipe 2" Sch160 L=88.5	A106 GrB	3.1
5	1	Seamless pipe 2" Sch160 L=74	A106 GrB	3.1
6	1	Seamless pipe 2" Sch160 L=63	A106 GrB	3.1
7	2	Pad by pipe 8" Sch.40	A106 Gr.B	3.1
8	1	Seamless elbow 2" 90° LR Sch.160	SA 234 WPB	3.1
9	1	Coupling 1/2" NPT #6000	A105	3.1
10	2	Plate 83x231 Thk.8	A516 70	3.1
11	2	Plate 60x140 Thk.10	A516 70	3.1
12	1	Nameplate support 156x241 Thk.3mm	A516 70	3.1
13	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 fittings 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 C220006CLC008 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	Air	COLLAUDO	Lloyd register
STATO FISICO DEL FLUIDO	Gas	Test	NATIONAL BOARD REGISTRATION
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	21 bara	SERVIZIO LETALE	NO
Operating pressure	21 bara	Lethal service	NO
PRESSIONE DI PROGETTO	(25 bara (24 barg))	X-RAY	RT examination
Design pressure	(25 bara (24 barg))	X-RAY	RT examination
PRESSIONE ESTERNA	NO	LICUIDI PENETRANTI	NO
External pressure	NO	Dye penetrant extension	NO
PRESSIONE DI PROVA IDRAULICA	66.4 barg	ULTRASUONI	NO
Hydraulic test pressure	66.4 barg	Ultrasonic extension	NO
TEMPERATURA DI ESERCIZIO	+180°C	CONTROLLO MAGNETOSCOPICO	NO
Operating temperature	+180°C	Magnetic particle examination	NO
TEMPERATURA DI PROGETTO	+210°C	TALONE DI SALDATURA	NO
Design temperature	+210°C	Weld tests coupon	NO
SOVRAME TALLO DI CORROSIONE	3 mm	PROCEDIMENTO DI SALDATURA	See doc: C220006WBK013
Corrosion allowance	3 mm	Welding procedure	See doc: C220006WBK013
CAPACITA'	30 l	TIPO DI FONDO	CAP
Capacity	30 l	Head type	CAP
EFFICIENZA GIUNTI	0.85	FORMAZIONE FONDO	HOT
Joint efficiency	0.85	Head form	HOT
MAWP @ Design Temperature	38.66 barg @ +210°C	PESO A VUOTO	63 kg
MAWP(EXT)	NO	PESO IN ESERCIZIO	63 kg
MDMT @ MAWP	0 °C @ 38.66 barg	PESO PIENO D'ACQUA	92 kg
Full water weight	92 kg		
TRATTAMENTO TERMICO	NO	DATI DEL VENTO	
P.W.H.T.	NO	Wind data	
IMPACT TEST	NO	DATI SISMICI	
Exemption	NO	Seismological data	

Rev.	Descrizione / Description	Disegnato/Draw	Controllato/Checked	Approvato/Approved	Data/Date
07	as built	CM	MV	GL	25/04/2023
04	Modified as per Client comments	CM	MV	GL	11/05/2022
03	Modified as per Client comments	CM	MV	GL	15/04/2022
02	Modified as per Customer comments	CM	MV	GL	02/04/2022
01	Modified earthing lug	CM	MV	GL	25/03/2022
00	FIRST ISSUE	CM	MV	GL	16/03/2022

Oggetto/Object: PULSATION DAMPER OUTLET

Scala/Scale: 1:5
 Comm. N°/Job No.: C220006
 Cliente/Customer: Airpack Nederland B.V.
 Ord. No.: 18498-VV-0901
 Dis. N°/Dwg No.: C220006DWG002
 Rev. 07