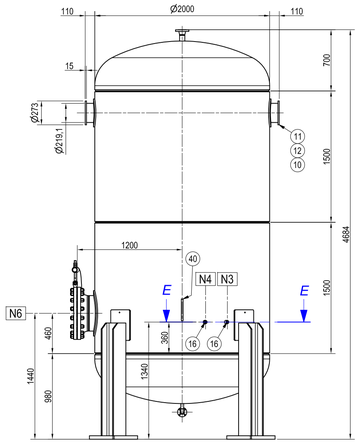
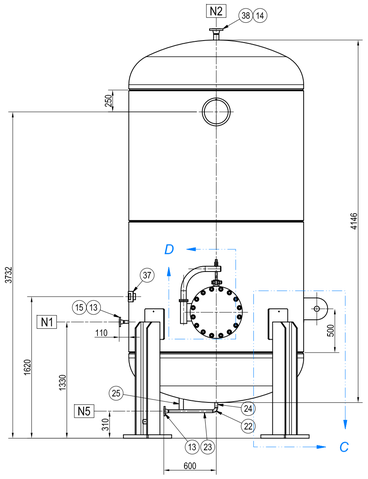
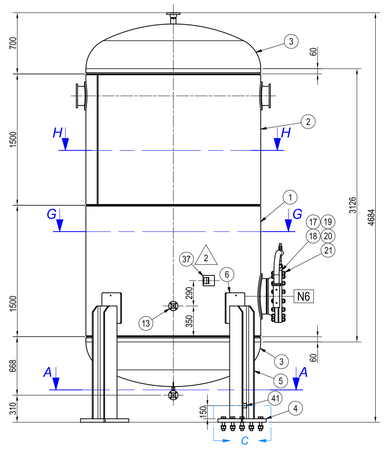
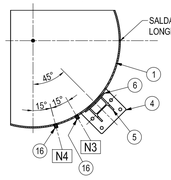
DRAWING NO. 1724000437-MAC-DD-00006 | REV. 04



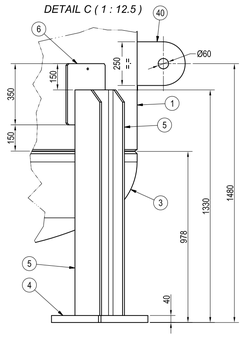


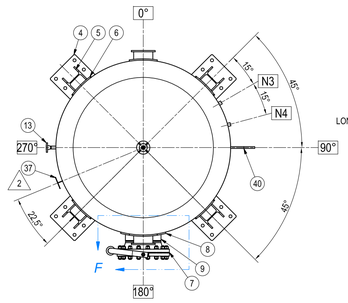


SECTION E-E (1 : 25)

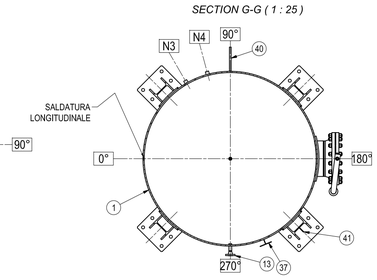


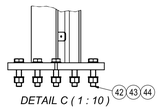
DETAIL C (1 : 12.5)





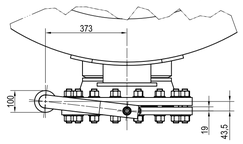
SECTION G-G (1 : 25)



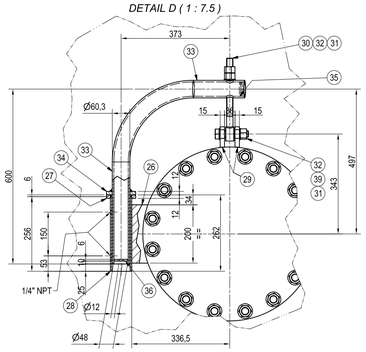


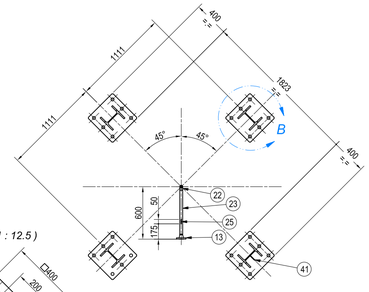
DETAIL C (1 : 10)

DETAIL F (1 : 10)



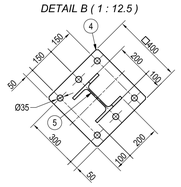
DETAIL D (1 : 7.5)

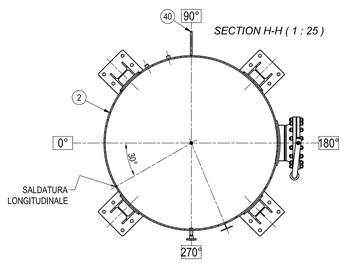




SECTION A-A (1 : 25)

DETAIL B (1 : 12.5)





SECTION H-H (1 : 25)

NAMEPLATE DETAIL

MANUFACTURER	COES SRL - STEZZANO (BG)
EQUIPMENT	N2 RECEIVER V-64001
SERIAL NUMBER	S240120 YEAR 2024
DESIGN CODE	ASME VIII Div. 1 Ed. 2021 / PED 2014/68/UE
CONFORMITY	Category IV
FLUID	N2
DESIGN PRESSURE	12 barg
DESIGN TEMPERATURE	-29 / + 80°C
TEST PRESSURE	17.2 barg
CORROSION ALLOWANCE	3 mm
WEIGHT	4000 kg
VOLUME	11000 l

CE 0425

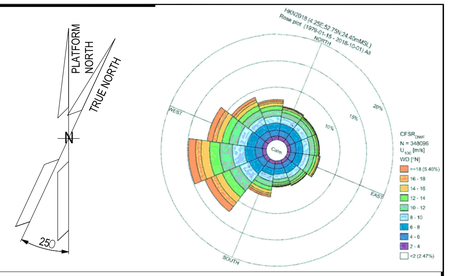
ELENCO PARTI / BILL OF MATERIAL

POS	QTY	DESCRIPTION	MATERIAL	WGT		TEST	COD. COES
1	1	SHELL øe2000 Thk. 15 L=1500 (Manhole 16" side)	SA 516 Gr.70	1080		B	L3723
2	1	SHELL øe2000 Thk. 15 L=1500	SA 516 Gr.70	1095,6		B	L3724
3	2	ELL. HEAD øi1970 Thk. 15mm (Thk. 12.75mm min.)	SA 516 Gr.70	1112,3		B	L3716
4	4	PLATE 400x400 thk=40 N° 6 HOLES Ø35	SA 516 Gr.70	194		C	L3719
5	5160,000 mm	PROFILE HEB 200 L=1290	S 355 J2	314,8		C	F7552
6	4	PAD 350x300 thk=15	SA 516 Gr.70	50		B	L3720
7	1	FLANGE W.N.16" Sch. 40 150# RF	SA 350 Gr. LF2 Cl.1	66,3		B	H1000
8	1	PAD Øe=510 Øi=410 thk=15 for Man Hole	SA 516 Gr.70	9,3		B	L3721
9	1	SHELL øe407 Thk. 15 L=110	SA 516 Gr.70	13,6		B	L3722
10	2	PAD Øe=320 Øi=220 thk=15 for Trunnion	SA 516 Gr.70	9,8		B	L3718
11	2	DISK Ø273 thk=15	SA 516 Gr.70	13,8		C	D2222
12	200,000 mm	PIPE SMLSS 8 Sch.80	SA 333 Gr. 6	12,5		C	D9560
13	2	FLANGE W.N.1" Sch. XXS 150# RF	SA 350 Gr. LF2 Cl.1	2,6		B	L3726
14	80,000 mm	PIPE SMLSS 2 Sch.160	SA 333 Gr. 6	0,9		B	C1399
15	80,000 mm	PIPE SMLSS 1 Sch.XXS	SA 333 Gr. 6	0,4		B	D9604
16	2	COUPLING 1/2" NPT-F 6000#	SA 350 Gr. LF2 Cl.1	0,7		B	K1337
17	1	GKT SPIRAL WOUND 16" 150# Thk. 4.5mm	316L+GRAPHITE	2		C	F8428
18	1	FLANGE BLIND B16,5 16" 150# RF	SA 350 Gr. LF2 Cl.1	76,2		B	L3727
19	32	WASHER 1	C.S.	1,5		C	C5634
20	32	NUT 1" UNC	SA 194 Gr.7	5,6	*	B	J2840
21	16	STUD-BOLT 1" UNC x 155	SA 320 Gr.L7	9,9	*	B	H9373
22	1	ELBOW L.R. 90° 1" Sch. XXS	SA 420 WPL6	0,3		B	D9605
23	502,528 mm	PIPE SMLSS 1 Sch.XXS	SA 333 Gr. 6	2,7		B	D9604
24	73,000 mm	PIPE SMLSS 1 Sch.XXS	SA 333 Gr. 6	0,4		B	D9604
25	200,000 mm	PLATE 50 x 6 L=132,5 mm	SA 516 Gr.70	0,3		B	L4381
26	1	PLATE 200x55 thk=18 (DAVIT 16" 150#)	SA 516 Gr.70	1,2		B	L4382
27	1	ROD Øe=100 Øi=74 Thk=12	SA 516 Gr.70	0,3		C	L4016
28	256,000 mm	PIPE SMLSS 2 1/2 Sch.40 L=256	SA 333 Gr. 6	2,2		C	G6831
29	2	PLATE 50x70 Thk. 15 mm FOR DAVIT 16"	SA 516 Gr.70	0,6		B	L4383
30	1	LIFTING EYE M22x260	SA 350 Gr. LF2 Cl.1	1		C	L4375
31	3	WASHER A 22	C 40	0,1		C	3393
32	3	NUT M22 UNI 5587	SA 194 Gr.7	0,3		C	L1368
33	1	BENDING PIPE SMLSS 2" SCH. 40 L=920 (DAVIT 16" 150#)	SA 333 Gr. 6	6,8		C	L4385
34	1	ROD Øe=100 Øi=61 Thk=12	SA 516 Gr.70	0,5		C	L4376
35	1	DISK Øe=48 Øi=12 thk=6	SA 516 Gr.70	0,1		C	L4377
36	1	DISK Øe=48 Øi=12 thk=6	SA 516 Gr.70	0,1		C	L4378
37	1	SUPPORT NAMEPLATE 140x120 Thk.4mm	SA 516 Gr.70	0,5		B	E4247
38	1	FLANGE W.N.2" Sch. 160 150# RF	SA 350 Gr. LF2 Cl.1	3,1		B	F7664
39	1	SCREW - M22 x 100 - UNI 5739	SA 320 Gr.L7	0,4		C	L0436
40	1	LIFTING LUG A=250 E=150 HOLE Ø60 THK=20	SA 516 Gr.70	9,3		B	L3717
41	1	EARTHING LUG 70 x 50 Thk.6	SA 516 Gr.70	0,2		C	L5167
42	24	SCREW - M30 x 140 - UNI 5739	Cl. 8.8	0,4		C	L5163
43	48	WASHER A 30	C 40	9,3		C	9169
44	24	NUT M30 UNI 5587	Cl. 8	0,2		C	L5164

MATERIAL TEST SYMB. (according to EN 10204)

A	Tested material (3.2)
B	Material with certificate of manufacturer (3.1)
C	Material without certificate
D	Material with certificate of manufacturer (2.2)

POS	DESCRIPTION	PIPE CONN.
N1	IN/OUT	WN 1" 150# RF SCH. XXS
N2	PSV	WN 2" 150# RF SCH. XXS
N3	PRESSURE GAUGE PG	COUPLING 1/2"NPTF 6000#
N4	PRESSURE TRANSMITTER PT	COUPLING 1/2" NPTF 6000#
N5	DRAIN	WN 1" 150# RF SCH. XXS
N6	MAN HOLE	WNF 16" 150# RF SCH. 40



NOTES

NOTE:

1. QUANTITIES IN MATERIAL LIST FOR No. 1 VESSEL.
2. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
3. ALL THICKNESSES SHOWN ARE MINIMUM AFTER FORMING.
4. TOLERANCE OF VESSELS: ACCORDING TO COES PROCEDURE CTP03684 Rev.2
5. FLANGES DRILLED HOLES SHALL STRADDLE MAIN CENTER AXIS OF VESSEL.
6. FLANGES FACE FINISHING: 125-250 AARH.
   FLANGES AND BLIND FLANGES <= 24" ACC TO ASME B16.5 (2020).
7. VENT HOLES ON REINF. PAD: 1/4" NPT/F EACH PAD OR SEGMENT
   PERFORM TEST AT 1 bar(g) WITH AIR AND SOAPY SOLUTION.
8. ALL NOZZLES WITHOUT INTERNAL PROJECTION, TO BE FLUSHED WITH INSIDE SURFACE OF THE VESSEL. THE INSIDE EDGE OF ALL NOZZLES TO BE ROUNDED.
9. FOR WELDING DETAILS REFER TO THE RELATED WELDING BOOK, DOCUMENT NO. 1724000437-WEL-LIS-00020.
10. BUTTWELDING FITTINGS ACCORDING TO ASME B16.9 (2018)
11. THREADED FITTINGS ACCORDING TO ASME B16.11 (2021)
12. QUANTITY 1: SEE ORIENTATION PLAN.

LEGEND

HOLDS

DESIGN DATA

Code	Applicable codes and standards		ASME VIII Div.1 Ed. 2021 / PED 2014/68/EU		
	Third party		ICIM GROUP		
	STAMP		No		
	NATIONAL BOARD		No		
	CRN REGISTRATION		N.A.		
Pressure	Design pressure internal		12	barg	
	Working pressure		8	barg	
	Hydrotest pressure vertical		17,2	barg	
	Hydrotest pressure horizontal		N.A.	barg	
	Static head in design		0	barg	
	MAWP		12,72	barg	at temperature of 80 °C
Temperat.	Design temperature		80	°C	
	Working temperature		-	°C	
	M.D.M.T. @ MAWP		-29	°C	
	Test temperature min.		10	°C	
Miscellaneous	Corrosion allowance		3	mm	
	Out of roundness		1%		
	Insulation		-	mm	
	Capacity		11000,0	ℓ	
	Tollerance on thickness	Plates	0.25 (>4); 6% (<=4)	mm	
		Pipes	-12.5	%	
		Forgings	=0/1	mm	
Fluid	Nature		N2		
	Physical state		GAS		Group 2
	Specific weight		11,43	kg/m³	
Weldings	Joint efficiency (E)		0.85		
	Rad. Cat/class		RT 3		
	Test Coupons		NO		
	Radiographic Examination		SPOT	note:	
Heat treatement and testing	Head assembly in 1 piece		N.A.		
	Heat treatment		NO	note:	
	Liquid penetrant Examination (PT)		YES	note:	
	Ultrasonic Examination (UT)		NO	note:	
	Impact test		NO	note:	Exempt Para. UCS-66 / YES PED 2014/68/EU Annex 1
	External Finishing		According to Coating Specification no. 1724000437-MAT-PRO-00021		
	Internal Finishing		According to Coating Specification no. 1724000437-MAT-PRO-00021		
Ext. Loads	Wind		YES	note:	Project Spec. 123A90-DDL-ST-SP-90017
	Seismic		YES	note:	Project Spec. 123A90-DDL-ST-SP-90017
Weight	Empty		4000,0	kg	
	Hydrotest condition		15000,0	kg	

coes

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
04	03/04/25	STC	GT	TM	ISSUE FOR INFORMATION (IFI)
03	02/01/25	STC	GT	TM	ISSUE FOR INFORMATION (IFI)
02	07/10/24	STC	GT	TM	ISSUE FOR INFORMATION (IFI)
01	05/07/24	STC	GT	TM	ISSUE FOR INFORMATION (IFI)
00	28/05/24	STC	GT	TM	ISSUE FOR INFORMATION (IFI)

CROSSWIND

ROSETTI MARINO

TITLE :
BASE LOAD POWER HUB (BLPH)
EQUIPMENT SECTIONAL DRAWING WITH BILL OF MATERIAL
NITROGEN GENERATION PACKAGE N2 RECEIVER

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK | SCALE 1:35

DRAWN STC | CHECKED GT | APPROVED TM | DATE 03/04/25

A1 | DRAWING NO. 1724000437-MAC-DD-00006 | SHEET 001 | REV. 04

File Name : 1724000437-MAC-DD-00006