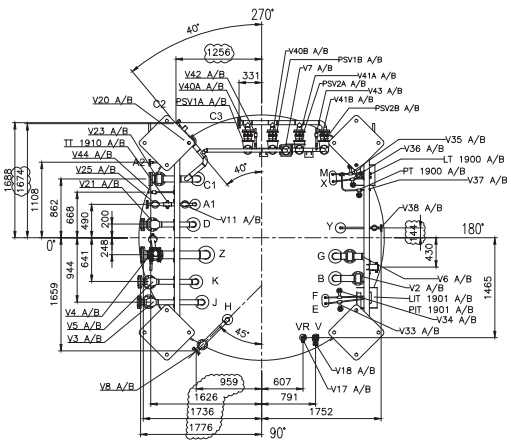
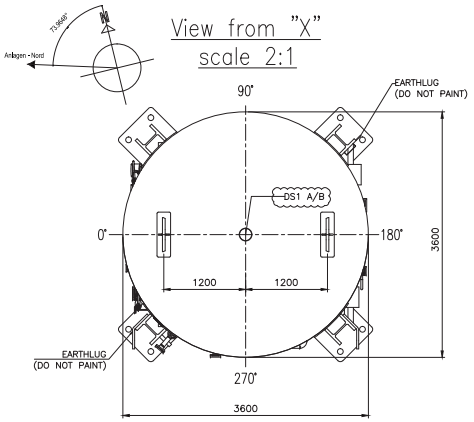
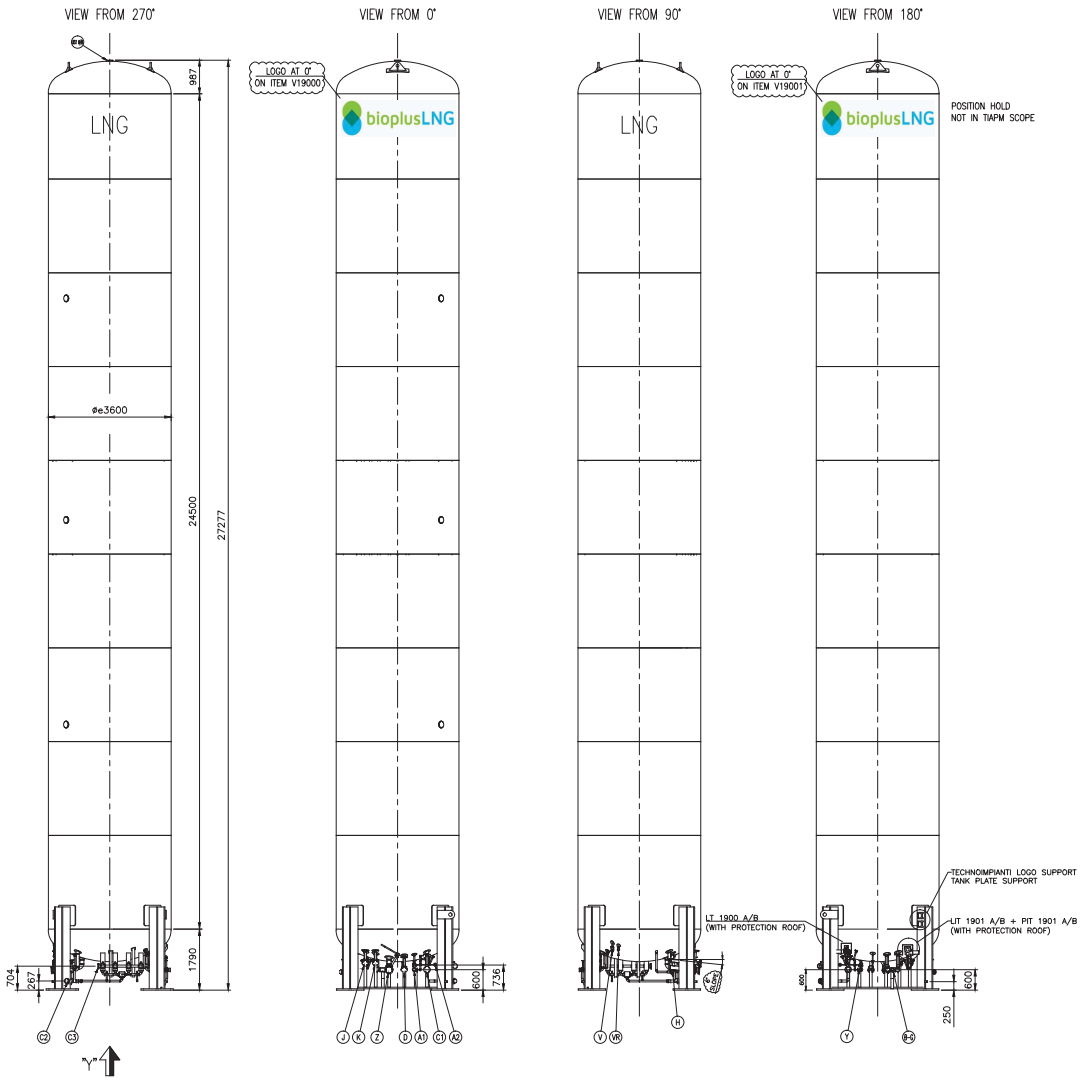






GENERAL DATA

Design code	EN 13458-2 + ANNEX C
Equipment No / Name	VT19000 / VT19001
Client Project	L43374
Manufacturer project number	11492
Tank serial number	6212 / 6213
Fluid group (LNG)	I
Installation Site	Renzenhof – Germany

DESIGN DATA

	INNER VESSEL	OUTER JACKET
Medium	Liquid Natural Gas (LNG)	Evacuated Perlite
Design pressure	5 bar(g)	-1.0 bar(g)
Operating pressure	0.5 bar(g)	≤ 0.1 mbar (g)
Safety valve set pressure	5 bar(g)	-----
Design temperature min./max.	-196/ +50 °C	-25/ +50 °C
Operating temperature	-168 °C (min.)	-----
Hydrostatic test pressure	8.58 bar(g)	-----
Gross volume	210 m3	-----
Net volume 95%	199.5 m3	-----
Empty Weight	~ 56000 kg	
Gross Weight	~ 58000 kg	
Operating Weight (LNG density 470.9 kg/m³)	~ 150000 kg	
Joint efficiency	1	-----
RT scope	100% on longitudinal and circumferential welds	None, not required per code.
Main Material	SA 240 Type 304	S235J2
Corrosion allowance	0.0 mm	0.0 mm
Seismic design	-----	N.A.
Wind design	-----	EUROCODE EN 1991-1-4 & Acc. to PTR15/318
Snow loading	-----	EUROCODE EN 1991-1-3 & Acc. to PTR15/318
Destructive examination	N°1 Welding Coupon of longitudinal joint (1BF+1BR+1T+1Mb)	-----
Tank testing Procedures	Acc. to IP 1989	
Dye Penetrant Test	All welds and nozzles	
Color of Outer Jacket	RAL 9010	

PAINTING CYCLE

Painting applicable for all painted components shall be suitable for ambient and class of atmosphere corrosivity "C3" for a minumum expected durability H (high) according to ISO 12944 and SIAD MI specification TS 1.005 cycle 3.1 (see below).

–SURFACE PREPARATION: Grade P2 ISO 8501–3 + Sandblasting min Gr. SA 2.5

–PRIMER: Epoxy Zinc–rich primer CARBOZINC 858. Dry thickness: 80 µm.

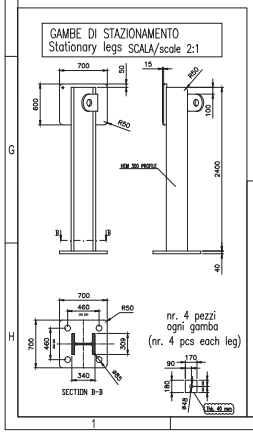
–FINISH: Polyurethone CARBOTHANE 134HP RAL 9010. Dry thickness: 80 µm.

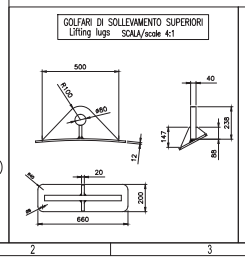
Final dry thickness: 160 µm.

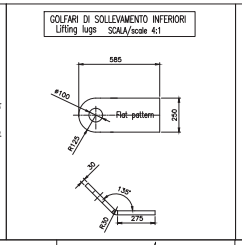
NOTE: FOR NAMEPLATES SEE DWG. "002328-DIS"
FOR INSTALLATION WILL BE SUPPLY ONE TEMPLATE FOR ITEM

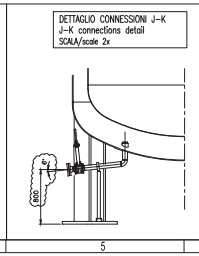
CONNECTIONS LIST

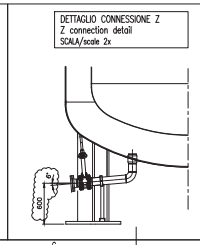
Number	Conn.	Description	Dimensions
-	VR	VACUUM PROBE	NW16
-	V	VACUUM PLUG	NW25
-	DS1 A/B	VACUUM SAFETY DEVICE	TIAPM STD.
-	E-F	LEVEL & PRESSURE IND. & TRANSM. FITEM	ø3/8"
-	X-M	LEVEL TRANSMITTER SCHNEIDER F.	ø3/8"
15	Y	SAMPLE CONNECTION	1/2" WN #150
10	B-G	FILLING FROM PLANT TOP / BOTTOM	3" WN #150
9	C1	RETURN LINE FROM TRUCK	3" #150
8	C2	VENT LINE TO COLD FLARE	2" WN #150
11÷14	C3	PSV VENT	2" WN #150
7	D	FROM BUILD UP VAPORIZER / TO VENT	2.1/2" #150
5	A1	TRYCOCK	1" WN #150
6	A2	PSV VENT	3/4" WN #150
4	H	TO BUILD UP VAPORIZER	1.1/2" #150
3	K	PUMP RETURN LINE	2.1/2" #150
2	J	FROM PUMP COOLDOWN	2.1/2" #150
1	Z	TO TRUCK FILLING PUMP SUCTION	4" #150

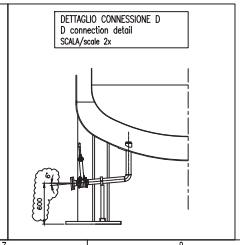












Rev.	Datum	Beschreibung			
3	15/11/23	REVISED AS MARKED	SN	MA	GZ
2	12/09/23	REVISED AS MARKED	SN	MA	GZ
1	27/06/23	GENERAL REVISION	SN	MA	GZ
0	31/03/23	FIRST ISSUE	DP	MA	GZ

erstellt	geprüft	freigegeben	Datum	freigegeben
TECHNOIMPIANTI APM S.A.S.				OGE

Projekt - Nr.	Standort / Projektname
DG-001115	LNG LIQUEFACTION PLANT

	Datum	Name
Erst.	19/11/23	NERVOSI
Gepr.	19/11/23	AMANTIA
Freig.	19/11/23	ZANARDI

Zeichnungsbenennung
GENERAL ASSEMBLY
GENERAL ANORDUNG

Schutzvermerk ISO 16016 beachten	Blattgr.	Maßst. 1:	Ft-Tech	Standortkurzname	A-Art	Anl-Nr	A-Teil	D-Art	Lfd.-Nr	Blatt	Änd
	A0	1:75	520	REZH	646	001	036	PAN	001	01	0D

Urspr.: Ers.f.: Ers.d.:

520REZH646001036PAN001

Rev.	Description						
3	REVISED AS MARKED	SN	15/11/23	MA	15/11/23	GZ	15/11/23
2	REVISED AS MARKED	SN	12/09/23	MA	12/09/23	GZ	12/09/23
1	GENERAL REVISION	SN	27/06/23	MA	27/06/23	GZ	27/06/23
0	FIRST ISSUE	DP	31/03/23	MA	31/03/23	GZ	31/03/23

CLIENTE Customer	COMMESSA Job	ITEM	FOGLIO Sheet
SIAD M.I.	11492 [L43374]	VT19000–VT19001	1/1
		NUM. SERIE Serial Num. 6212–6213	SCALA Scale 1:75
SERVIZIO Service	DISEGNO N. Drawing No.		REV.
210m3 LNG VERTICAL STORAGE TANK GENERAL ASSEMBLY	002147–LAY [EST106096]		3

COSTRUTTORE Builder: TECHNOIMPIANTI APM S.A.S.

FORMATO–Size