





**Fachtechnik** STORAGE TANK  
**Anlage** 646 001  
**Teilanlage** 036

Lieferant TECHNOIMPIANTI APM  
 Titel LNG STORAGE TANK - DATASHEET  
 LNG SPEICHERTANK - DATENBLATT  
 Bestell.-Nr. 4510272370

03					Proj.-Nr. DG-001115								
02					<b>Renzenhof</b> Dokumentenbenennung <b>LNG STORAGE TANK - DATASHEET</b> <b>LNG SPEICHERTANK - DATENBLATT</b>								
01													
Nr.	Änderung	Datum	Name										
	Datum		Name										
Erst.	27.02.2023		P.A.										
Gepr.	27.02.2023		P.A.										
Freig.	27.02.2023		L.G.										
Schutzvermerk ISO 16016 beachten		Maßstab 1/			F-Tech.	Standortkurzname	A-Art	Anl-Nr.	Anl-Teil	D-Art	Lfd-Nr.	Blatt	Änd.
		/			520	REZH	646	001	036	XDT	002	01+	0B
Ursprung: PTRDS15/318A Rev.0B				Ers. f.:			Ers. d.:						

		<b>SPECIFICA TECNICA - technical specification</b>					N. nr.	<b>PTRDS15/318A</b>		
		<b>DATA SHEET CONTENITORE CRIOGENICO</b>					FOGLIO sheet	2	DI of	3
		<b>cryogenic tank data sheet</b>					REV.	<b>OB</b>		
LINE	REV	<b>DATI DI PROGETTO - design data</b>								
1		COMMESSA	job	<b>L43374</b>	SIGLA	item	<b>VT19000 / VT19001</b>			
2	<b>OB</b>	SERVIZIO	service	<b>LNG STORAGE TANK</b>	COSTRUTTORE	manufacturer	<b>TECHNOIMPIANTI APM</b>			
3	<b>OB</b>	QUANTITA'	quantity	<b>2</b>	MODELLO	model	<b>-</b>			
4		<b>CONDIZIONI DI ESERCIZIO - operating conditions</b>								
5										
6		FLUIDO	fluid		-		<b>LNG</b>			
7		TEMPERATURA DI ESERCIZIO	operating temperature		°C		<b>-168</b>			
8		PRESSIONE DI ESERCIZIO	operating pressure		barg		<b>0.5</b>			
9		PESO SPECIFICO	specific weight		kg/m <sup>3</sup>		<b>470.9</b>			
10		PRESSIONE DI PROGETTO (VESSEL INT/EST)	design pressure (inner / outer vessel)		barg		<b>5 + HEAD + VACUUM / N.A.</b>			
11		PRESSIONE DI PROVA (VESSEL INT/EST)	test pressure (inner / outer vessel)		barg		<b>ACCORDING TO DESIGN CODE (MIN. 1.43 x DESIGN PRESSURE)</b>			
12		TEMPERATURA AMBIENTE (MIN / MAX)	ambient temperature (min / max)		°C		<b>-25/+40</b>			
13		TEMPERATURA DI PROGETTO (VESSEL INT/EST)	design temperature (inner / outer vessel)		°C		<b>-196/+50</b>	<b>-25/+50</b>		
14		PRESSIONE DI SCATTO DELLA PSV	safety valve set pressure		barg		<b>4.5</b>			
15		PRESSIONE DI ROTTURA DISCO DI ROTTURA	bursting pressure of bursting disc		barg		<b>N.A.</b>			
16		TEMPERATURA DI ROTTURA (ALLA PRESSIONE DI ROTTURA)	bursting temperature (at the bursting pressure)		°C		<b>N.A.</b>			
17		MATERIALE (VESSEL INTERNO / ESTERNO)	material (inner / outer vessel)		-		<b>STAINLESS STEEL / CARBON STEEL</b>			
18		CORROSIONE (VESSEL INTERNO / ESTERNO)	corrosion allowance (inner / outer vessel)		mm		<b>0/0</b>			
19		TIPO DI INSTALLAZIONE (VERT. / ORIZZ.)	installation (vertical / horizontal)		-		<b>VERTICAL</b>			
20		VOLUME	capacity		m <sup>3</sup>		<b>210 (GEOMETRIC)</b>			
21		ALTEZZA DA TERRA (DEL FONDO DEL TANK)	elevation above ground (of tank bottom head)		m		<b>0.6</b>			
22	<b>OB</b>	TIPOLOGIA DI COIBENTAZIONE	insulation type		-		<b>VACUUM + PERLITE</b>			
23	<b>OB</b>	SPESORE DELLA COIBENTAZIONE	insulation thickness		mm		<b>195</b>			
24		NORME DI CALCOLO VESSEL INT/EST	design code for inner/outer vessel		-		<b>EN 13458-2 + ACCORDING TO PED</b>			
25		NORME DI COSTRUZIONE VESSEL INT/EST	construction code for inner/outer vessel		-		<b>MFR STD + ACCORDING TO DESIGN CODE</b>			
26		NORME DI COLLAUDO VESSEL INT/EST	testing code for inner/outer vessel		-		<b>CE MARKED + ACCORDING TO DESIGN CODE + MFR STD</b>			
27		NORME DI CALCOLO DELLA VALVOLA DI SICUREZZA E DEL DISCO DI ROTTURA	design code for safety valve and bursting disc		-		<b>API520/521 + EN1473</b>			
28		TIPO DI COLLAUDO DELLA VALVOLA DI SICUREZZA E DEL DISCO DI ROTTURA	testing type of safety valve and bursting disc		-		<b>CE MARKED + ACCORDING TO DESIGN CODE + MFR STD</b>			
29		PORTATA DI VAPORE BOG SCARICATA DAL TANK PER SPOSTAMENTO DI GAS DURANTE IL RIEMPIMENTO DEL TANK CON LNG DALL'IMPIANTO	BoG vapor flow rate to be discharged by tank for gas displacement during LNG filling of tank from plant		Nm <sup>3</sup> /h		<b>48 (49 kg/h)</b>			
30		PORTATA DI VAPORE BOG ENTRANTE DURANTE IL CARICAMENTO CISTERNA	BOG vapor flow rate entering during truck filling operation		Nm <sup>3</sup> /h		<b>517 (528 kg/h)</b>			
31		PORTATA DI VAPORE BOG GENERATA PER RIENTRANZE TERMICHE	BoG vapor flow rate produced for thermal losses		Nm <sup>3</sup> /h		<b>8 (0.2% daily max.) (8.2 kg/h)</b>			
32		PORTATA MASSIMA DEL VAPORIZZATORE DI RIPRESSURIZZAZIONE LNG	maximum flow rate of LNG build-up vaporizer		Nm <sup>3</sup> /h		<b>1000 (811 kg/h)</b>			
33		CODICE PER LA VERIFICA AL CARICO NEVE	applicable code for snow load design		-		<b>EUROCODE</b>			
34		CODICE PER LA VERIFICA AL VENTO	applicable code for wind design		-		<b>EUROCODE</b>			
35		LUOGO DI INSTALLAZIONE	installation site		-		<b>OUTDOOR</b>			
36		BULLONI DI FONDAZIONI INCLUSI NELLA FORN.	foundation bolts included in the supply		-		<b>NO</b>			
37		SPECIFICA APPLICABILE PER I BULLONI DI FONDAZIONE	applicable specification for foundations bolts		-		<b>N.A.</b>			
38		TENSIONE RICHIESTA PER STRUMENTI IN CAMPO	required voltage for field instruments		V		<b>24 DC</b>			
39		GRADO DI PROTEZIONE COMP. ELETTRICI	protection degree of electrical components		IP		<b>65</b>			
40	<b>OB</b>	TIPO DI ESECUZIONE (se EEXD)	proof execution		-		<b>Ex ia IIC T6</b>			
41		NOTE - notes								
42		(1) - PSV shall be sized for back-pressure > 10% of set pressure								
	<b>REV.</b>	<b>DATA</b>	<b>DESCRIZIONE</b>				<b>COMPILATO</b>	<b>APPROVATO</b>		
	rev.	date	description				compiled	approved		

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## SPECIFICA TECNICA - technical specification

N. nr. **PTRDS15/318A**

### DATA SHEET CONTENITORE CRIOGENICO cryogenic tank data sheet

FOGLIO sheet 3 DI of 3

REV. **0B**

#### SCHEMA BOCHELLI E LIMITI DI FORNITURA - nozzle and battery limit diagram

LINE	REV	NUMERO number	SIGLA item	CLASSE rating	SERVIZIO service	TIPOLOGIA type
53						
54						
55		1	V4	150 / 4"	TO TRUCK FILLING PUMP SUCTION	BALL
56						
57		2	V3	150 / 2,5"	FROM PUMP COOLDOWN	BALL
58						
59		3	V5	150 / 2,5"	PUMP RETURN LINE	BALL
60						
61		4	V8	150 / 1,5"	TO BUILD UP VAPORIZER	BALL
62						
63		5	V25 / V11	150 / 1"	TRYCOCK	GLOBE
64						
65	OB	6	PSV 8	150 / 1/2" GASm x 3/8" GASf	PSV TRYCOCK DISCHARGE	MFR STD
66						
67		7	V21	150 / 2,5"	FROM BUILD UP VAPORIZER/TO VENT	BALL
68						
69		8	V20	150 / 2"	VENT LINE TO COLD FLARE	GLOBE
70						
71		9	V23	150 / 3"	RETURN LINE FROM TRUCK	BALL
72						
73	OB	10	V2 - V6	150 / 3"	FILLING FROM PLANT TOP / BOTTOM	BALL
74						
75	OB	11	PSV 1A	150 / 1" x 1" 1/4	MAIN PSV DISCHARGE	MFR STD
76						
77	OB	12	PSV 1B	150 / 1" x 1" 1/4	MAIN PSV DISCHARGE	MFR STD
78						
79	OB	13	PSV 2A	150 / 1" x 1" 1/4	MAIN PSV DISCHARGE	MFR STD
80						
81	OB	14	PSV 2B	150 / 1" x 1" 1/4	MAIN PSV DISCHARGE	MFR STD
82						
83		15	V38	150 / 1/2"	SAMPLE CONNECTION	GLOBE
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NOTE - notes

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