


07-09-2023



INDOX ENERGY SYSTEMS



Offer number	230703703.A
Client	PRF
Direction	
Country	PORTUGAL
Contact person	Carla Carapinha
Project number	SG dujos HOLDING (Lituania)



1. General:

Tank code VERTICAL	DCV-270-070-11-E		
Tank design	VERTICAL double body, vacuum insulated and perlite.		
Optimised for	GNL		
Pressures	Maximum service	11 bar	
	Hydraulic test	17,16 bar	
Homologation	Directive 2014/68/UE		
Design code	EN-13458		
Design temperature Inner Vessel	-196°C...+50°C		
Design temperature outer Vessel	-40°C...+50°C		
Interior material	Stainless Steel		
Exterior material	Carbon Steel. Quality S235J0		
Geometric capacity	69.527 liters		
Capacity 95%	66.051 liters		
Tare weight	24.000 kg		
Approximate height	14.800 mm		
Approximate width	3.084 mm		

2. Documentation, tests and trials:

Documentation	Operating instructions manual with spare parts list in English language. Manufacturing manual with corresponding certificates.
X-rays:	According to UNE-EN ISO 17636-1. 100% Lineal, 100% Crosses and 25% Circular.
Tests & trials:	Required according to homologation and design code: Hydraulic test, manufacturing witnesses, cleanliness certificate of the inner body, etc.
Inspection entity:	Bureau Veritas Spain



Service equipment.

Type of service equipment.

INDOX

Cryogenic valves.

Globe valves HEROSE SOCKET WELL (Type 01641)

Economizer line. NOT INCLUDED

Measure according to type of service equipment. Tared according to maximum service pressure.

Vaporizer line for pressurization. Flow according to the deposit model.

Filter and regulator installed in the vaporizer line.

Stainless steel vent pipe. Exit through the top of the tank.

Security valves set according to code.

Termosiphon considered in base prices with one exit pump. Vacuum insulated until first valve (Included)

Upper coil in gas phase tank

Bottom part of the tank painted according to EN-1993-1-2: R60 (60min). Stability under fire.

Coil in the UPPER part of the tank to cold down the LNG with LIN

Seismic Calculation according UBC1997, seismic zone 3.

Wind load calculation: 56m/s in accordance with EN1991 1-4

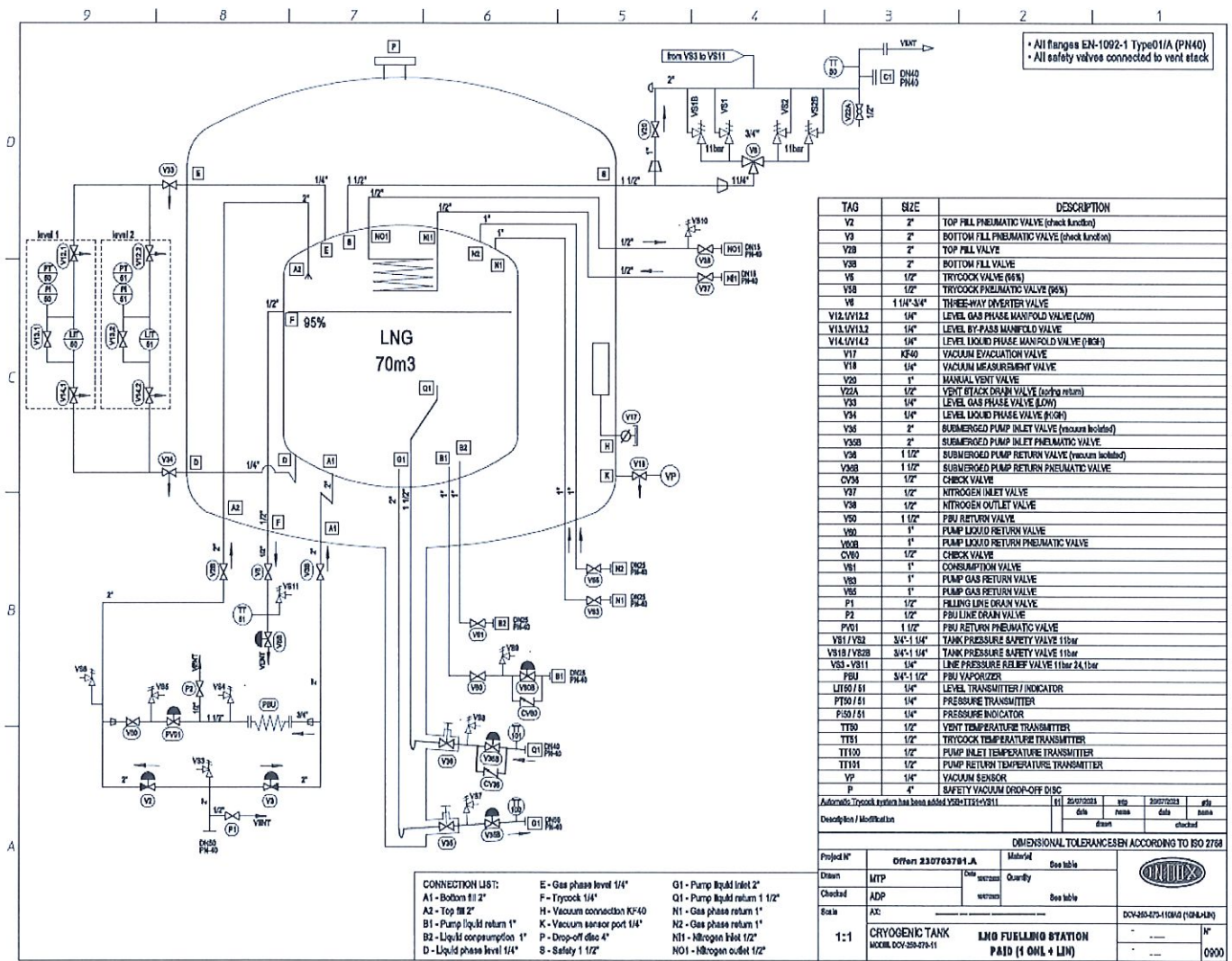
NER according to EN 12 213: 0,1% LNG/day

Electronic trycock – Pneumatic valve + temperature transmitter

Fire safe valves in liquid



P&I DE LA UNIDAD CON LOS DATOS SOLICITADOS POR EL CLIENTE





3. Instrumentation

Differential level with pressure indicator	MEDIA 7
<input checked="" type="checkbox"/> Level and pressure transmitter	MEDIA 7
Vacuum measurement socket type	TELEDYNE DV-6

4. Accessories.

Roof to correctly locate the instrumentation.
Vinyl with operating diagram of service equipment.
Vinyl indicating the correct stowage and lift points for transport and placement of the tank.

5. Painting

Stainless Steel interior composition.

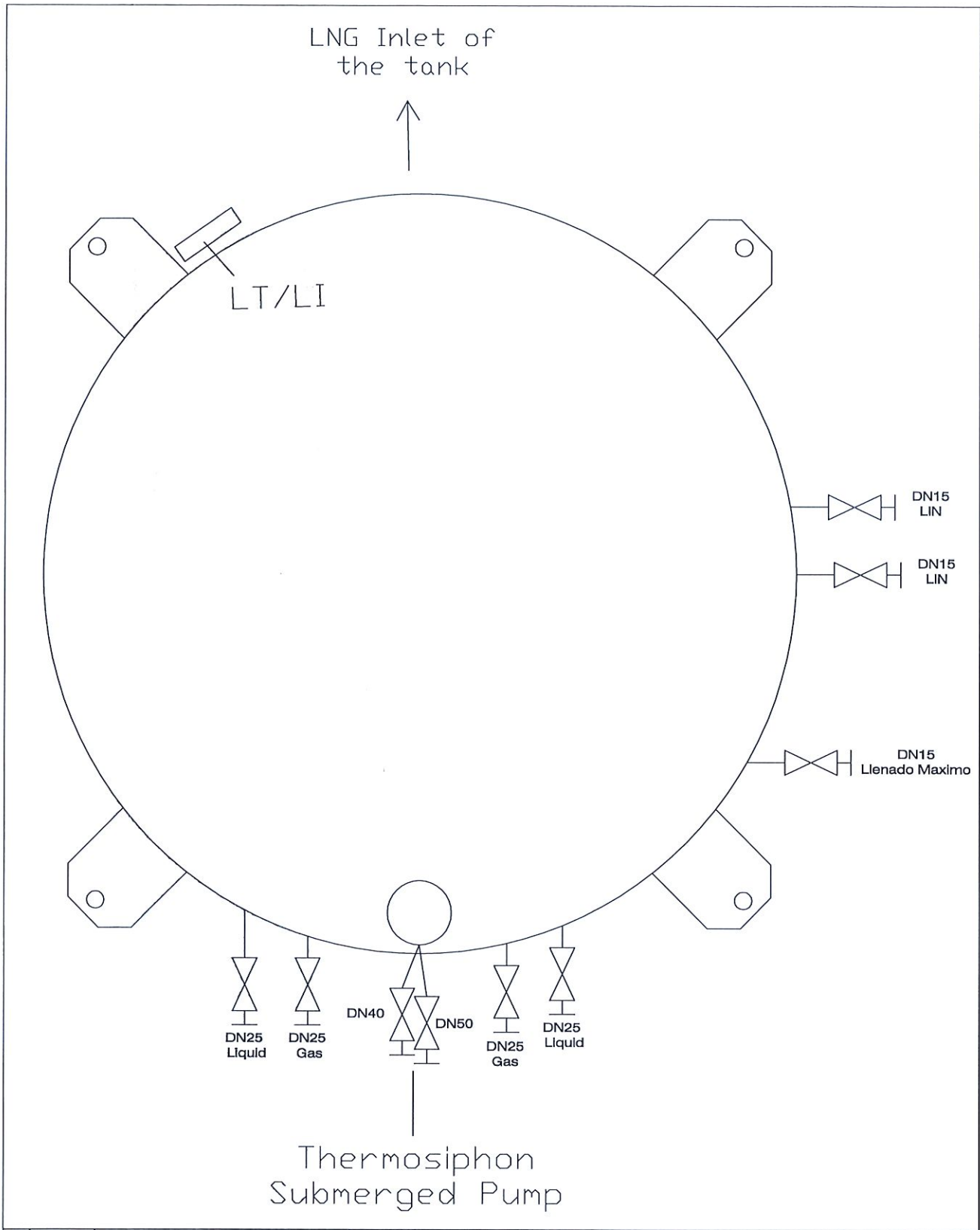
Cleaning according to design code.

Exterior

White colour RAL 9016.

Customer logo NOT INCLUDED

Fireproof paint (structural parts)



						GNV
						EU23018 - Tank Layout
						TÍTULO TITLE Tank Layout
REV REV	DATA DATE	DESCRIÇÃO DESCRIPTION	DES. DRAWN	VERIF. VERIFIED	APROV. APPROVED	
					ESCALA SCALE s/esc	NUMERO DO DOCUMENTO DOCUMENT NUMBER ÁREA AREA GNV CATEG. CATEGORY PMN NUMERO NUMBER 01 REV REV 00

V	Elemento Depósito	Acabado mat.			Color	Espesor imprimación			Espesor acabado				
		Mat.	pm	pu		pi	1	2	3	1	2	3	
(1)		(2)	(3)	(4)	(5)			(6)	(7)			(6)	(7)
	Cuerpo Exterior	ACERO			X			80 µ				60 µ	
	Tuberías F. Liq /Gas	INOX	X										
	Vaporizador PPR	ALU	X										

Observaciones Especiales Cliente:

Ver unidades anteriores pintadas para este Cliente, miran todo los detalle sy comprueban espesores

SÍ NO

Rotulación

En caso de que sí:
La suministra el cliente
La compra Indox

Medidas

A determinar

Pintura Ignifuga

Fondo Exterior
Patas

Según procedimiento PPG PITT-CHAR-NIX
Cumplimiento de ISO16924:2018 (8.1.1.5)

Tectilado

Protección transporte marítimo

Tejadillo Instrumentación

Observaciones. Cliente.: PRF-GAS

Vinilo P&I
Vinilos zona izado y fijacion
Vinilos purga tuberías
Vinilo INDOX
Vinilo No pisar proteccion Teledyne

Verificado por.

Fecha. 28/04/2023

Procedimiento de pintura

Resultado

IT 750.03

140 µ (mín 100) Pintura

Tomar medidas con IQF164 o IQF165

Nº Fabricación

DG-16993-IK

Fecha:

07/09/2023

Proyectista OT.

Comprobado OT.

HOJA DE PINTURA
DEPÓSITO CRIOGÉNICO

Doc. ref.

(1) Verificado. (2) Al,Fe, Inx, Pol, Pvc (3) Propio material (4) pulidc (5) pintado

(6) Toma espesores

(7) Espesor medio.