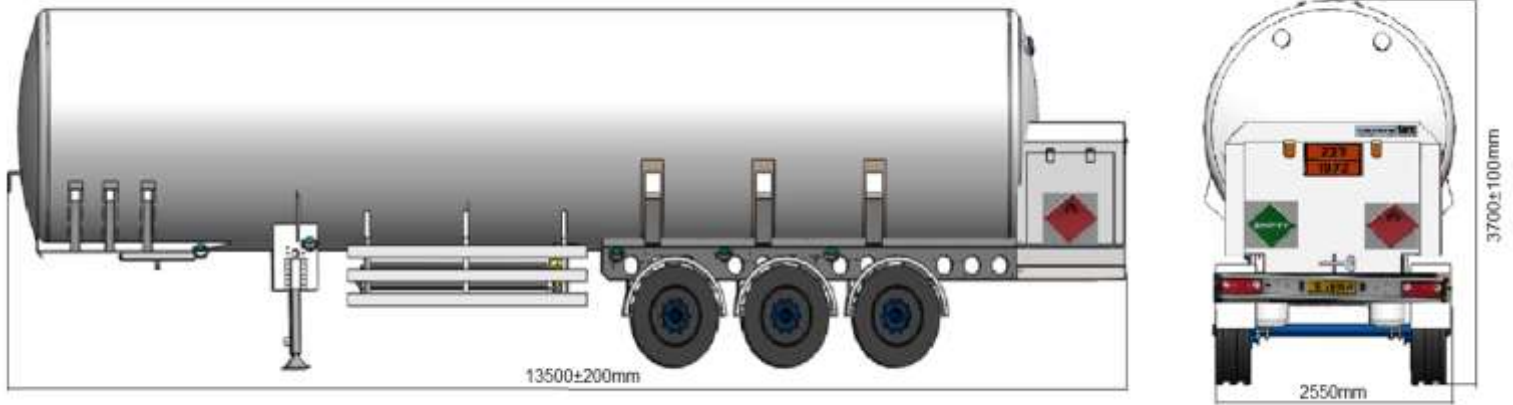


52M³ LNG CRYOGENIC TRAILER SPECIFICATIONS

Volume	Diameter (mm)	MAWP	Tare Weight -/+%3	Truck Weight	Filling amount (0,424 kg/m ²) (kg)	Max Weight in road KG
52000 liters	2550	6 barg	12900	7000	19500	40000



1. INNER VESSEL SPECIFICATIONS

- 1.1 Design Codes:** ADR / EN 13530-2
- 1.2 Design Temperature:** -196 °C / + 50 °C
- 1.3 Material:** Stainless Steel EN 10028-7 / SA 304LN for cryogenic applications
- 1.4 Maximum Working Pressure:** 6 bar
- 1.5 Baffles:** According Standard Requirements
- 1.6 NDT:** %100 VT, %100 X-RAY on the inner vessel, 100% dye penetrant on the inner vessel nozzles

2. OUTER VESSEL SPECIFICATIONS:

- 2.1 Material:** Stainless steel outer vessel / Carbon steel
- 2.2 According to Customer Request 6mm material thickness.**
- 2.3 Design Temperature:** -50 °C / + 50 °C -20°C / +50 °C
- 2.4 Design Pressure:** -14 PSI / -1 bar
- 2.5 NDT:** %100 VT,
- 2.6 %100 Helium Check**

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3 SAFETY DEVICES (PLEASE SEE THE P&I DIAGRAM)

3.1. Safety Valves:

- ✓ 4 x 7 barg each pair is connected to each other with a diverter valve. Line safety valves will be placed on locations where gas pressure might potentially increase at.
- ✓ Herose

3.2. Vacuum Accerories

- ✓ **Vacuum evacuation valve:**

Jacket Relief (Vacuum safety disc) calculated in accordance with design codes mounted on outer vessel surface.

- ✓ **Vacuum Reading TC Tube:** (DV6-R) + Hokes TC Tube Valve
- ✓ **Vacuum Valve**

3.3. Emergency Accessories:

- ✓ **Emergency buttons:**

3 emergency buttons are mounted, 1 in cabinet 2 on legs – (To be able to open/close each of the pneumatic valves within cabinet and on each side of the semi-trailer.

- ✓ **Emergency button panel:**

Within the cabinet to be able to open/close each of the pneumatic valves

4 PIPING

- ✓ **Material:** Seamless AISI 304/304L stainless steel or equivalent sizes and thicknesses are ranged from.

SCH 10 to 80 (2mm to 6mm) according to EN 13530-2 requirements

Note: All pipe connections will be welded with TIG welding method

5 VALVES

- ✓ **Globe Valves:** Herose
- ✓ **Pneumatic Valves:** Herose
- ✓ **Safety Valves:** Herose
- ✓ **3-way diverter valve:** Herose or Rego

6 PRESSURE GAUGE/MANOMETER

- ✓ 0-10 Barg and another one for oil pressure. One within the cabinet
- ✓ Pakkens
 - Please check option tables for brand

7 LIQUID LEVEL GAUGE

- ✓ Readings to be in % or mmWC
- ✓ Samsom Media 5
 - Please check option tables for brand

8 CGA – FILL CONNECTIONS

- ✓ Customer will supply the filling connections.

9 INSULATION

- ✓ **Insulation Type:** Super insulation + Vacuum
- ✓ **Warm Vacuum retention test:** To be applied over 72 hours at ambient temperature within the inner vessel warm vacuum guarantee at below 50 microns
- ✓ **Cold Retention Test:** To be applied over 72 hours with liquid nitrogen up to at least 25% of the inner vessel. Cold retention vacuum is below 10 microns.

10 PUMP

- ✓ Hydraulic Pump 600 liter flow rate
- ✓ All hydraulic connections for proper pump operation
- ✓ Hydrolic Pump Control Panel
 - Pump Brand ACD or CRYOSTAR

11 FLOWMETER

- ✓ EMERSON Micro Motion ELITE Peak Performance Coriolis Flow and Density Meter
- ✓ Flow sensitivity $\pm 0,014$

12 WELDING PROCEDURES

- ✓ Circumferential Welds-Submerged Arc Welding
- ✓ Parts exposed to pressure – TIG
- ✓ WPS , PQR's, and process tests (Destructive tests according to code requirement, vs.) will be placed in technical document.

13 CLEANING PROCEDURE

- ✓ Cleaning Procedures to be performed in accordance with, EN 12300 "Cryogenic Vessels- Cleanliness for cryogenic Service".
- ✓ All piping and inside of tank will be purified from oil.

14 PAINT PROCEDURE

- ✓ SA 2 ½" Sand blasting
- ✓ 50-75 microns zinc primer
- ✓ 100-150 microns epoxy prime coating
- ✓ 70-80 microns – polyurethane coating
- ✓ Min. 220 microns coating
- ✓ Paint Color: White (Ral 9010)

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