Gazocean

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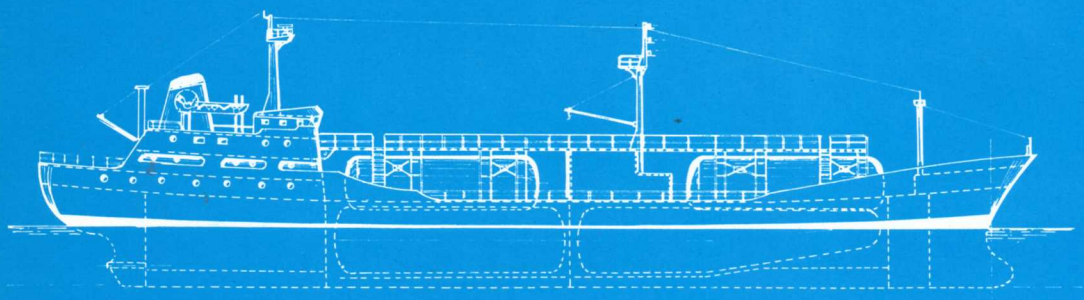
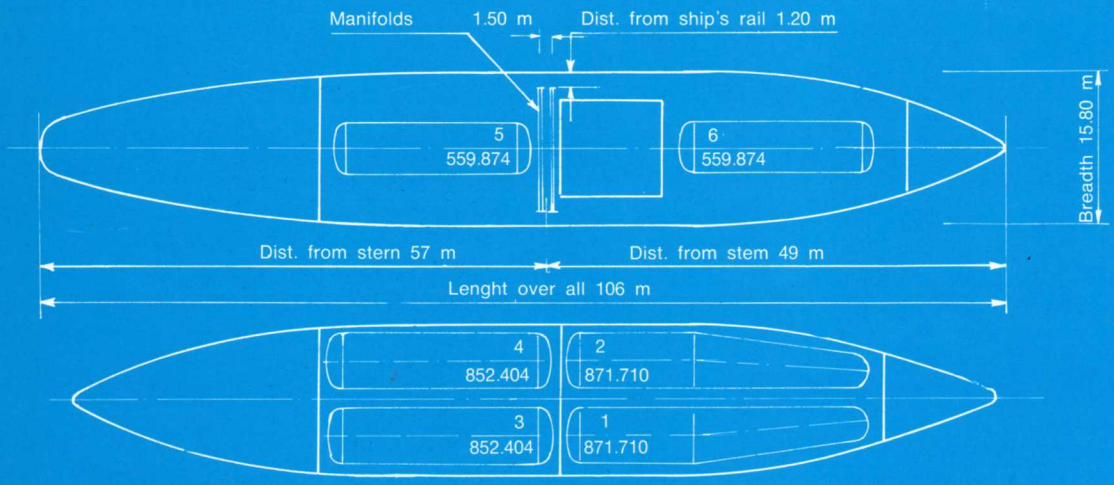
L.P.G. Tanker Luigi Galvani

Gastanker of 4,660 m³ 100% volume

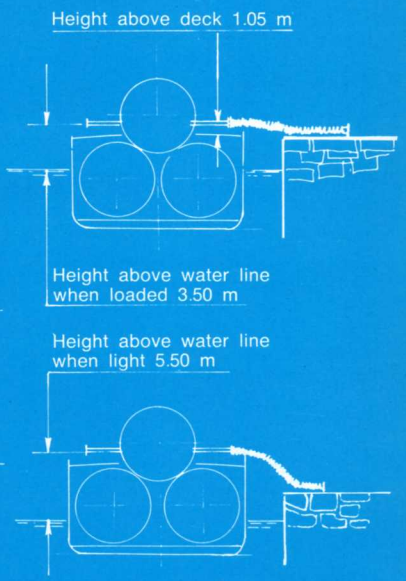
Working press. 0.7 or 5 kg/cm² Min. temp. −48 °C





Practical volume (98%) = 4,567.976 m³

Cargo tanks and manifolds position



Liquid line 8" Flange size 8" ASA 300
Gas line 6" Flange size 6" ASA 300

Reducers on board: 8"/6" - 8"/4" - 6"/4"

Derricks: 3 T. lifting capacity

general characteristics

Built 1971 by Cantieri Navali
M. B. Benetti - Viareggio (Italy)
Reg.ed owners: Carbocoke - Palermo
Flag: Italian
Port of Registry: Palermo

Class: R.I.NA. I A Q L 100 A 1 . 1
Approved by U.S. Coast Guard
Grt. Int. 3909.40 - Nrt. 2127.51
Panama 4041.07 - Nrt. 2430.38
Suez 4036.85 - Nrt. 2675.11

Hull

Length over all m 106.00
Length between P.P. m 95.50
Breadth moulded m 15.80
Draft: Tropical m 7.31 DWT T. 5865
Draft: Summer m 7.16 DWT T. 5665
Draft: Winter m 7.01 DWT T. 5465
Steel - Single screw
Diesel liquefied gas carrier
Six longitudinal cargo tanks
Machinery aft

Communication equipment

Call letters: I C D J
Radio station normally watched:
Roma and Genoa
Wireless - Radiotelephony
VHF: Redifon Gr. 470

Machinery

Main engine: two Fiat B. 308 SS.
BHP. 2 x 2000 - RPM. 500
Average speed: 13.5 K.
Fuel used: IFO 500
Auxiliary engines: two altern.
KVA. 2 x 875 - 420/220 V.
coupled to main engines.
— one diesel alternator
KVA 186 (emerg.)
Consumption per 24/h:
mt. 12 at sea - mt. 1.5 at port
Bunker capacity:
mt. 300 fuel oil - mt. 50 gasoil

cargo equipment information

Transportable products
Respective quantities in mt.
Corresponding draft (immersion: mt. 13 per cm.)

(theoretical data)

Tank no.	Total volume 100% m^3	Practical volume 98% m^3	Butane sp. grav. 0.601 T. −0.5 °C	Propane sp. grav. 0.582 T. −42 °C	Butadiene sp. grav. 0.650 T. −4 °C	Propylene sp. grav. 0.613 T. −48 °C	Ammonia sp. grav. 0.682 T. −33 °C	V.C.M. sp. grav. 0.972 T. −14 °C
1	869.500	871.710	523.897	507.335	566.611	534.358	594.506	847.302
2	889.500	871.710	523.897	507.335	566.611	534.358	594.506	847.302
3	869.800	852.404	512.294	496.099	554.062	522.523	581.339	828.536
4	869.800	852.404	512.294	496.099	554.062	522.523	581.339	828.536
5	571.300	559.874	336.484	325.846	363.918	343.202	381.834	544.197
6	571.300	559.874	336.484	325.846	363.918	343.202	381.834	544.197
Total	4,661.200	4,567.976	2,745.350	2,658.560	2,969.182	2,800.166	3,115.358	4,440.070
Draft in meters FWD/AFT - F. bunker			6.00/6.20	6.00/6.10	6.10/6.30	6.05/6.25	6.21/6.50	6.70/6.80

Other transportable products: acetaldehyde.

Cargo tanks characteristics

Valves setting: 0.7 and 5 kg/cm^2
Minimum temperature: −48 °C
Maximum specific gravity: 0.972
Where situated:
under deck,
fore n. 1 starb/n. 2 port
aft n. 3 starb/n. 4 port
on deck, n. 5 aft/n. 6 fore

Loading rate mt. hour

		30 °C	20 °C	10 °C	0 °C
400	butane	250	300	400	400
350	propane	50	70	100	150
350	ammonia	70	100	140	170
ex atmospheric storage		ex pressurized storage			

Refrigerating system

It is not independent
Power:
224,000 frig/h with propane −42 °C
1,500,000 frig/h with propane −5 °C
Time required at sea to lower by 1 °C the full cargo:

butane	propane	ammonia
5 h	7 h	7 h

Cooling down before loading

Cargo needed in mt: butane 30, propane 40, ammonia 40
Time required in hours: butane 5, propane 48, ammonia 48.

Cargo reheater

Heating source: sea water
Discharging rate in mt/h for bringing product from atmosph. press. to −5 °C:

butane	propane	ammonia
80	100	65

Cargo pumps

Six electrical deep-well pumps « Carter » each of 90 m^3/h at 120 m head, one speed
Two electrical booster pumps « Guinard » each of 240 m^3/h at 180 m head, variable speed
Max back press.: in series 18 kg/cm^2 in parallel 10 kg/cm^2.

Cargo compressors

Two compressors « Loire » 8FA 160 M of 810 m^3/h.
One compressor « Loire » 6FA 160 M of 600 m^3/h.

Gas freeing - Changing grade

Method used: stripping, vacuums/ventilation by air and/or purging by nitrogen ex shore.
Nitrogen needed: 20,000 m^3 about.
Time required: 48 hours about.