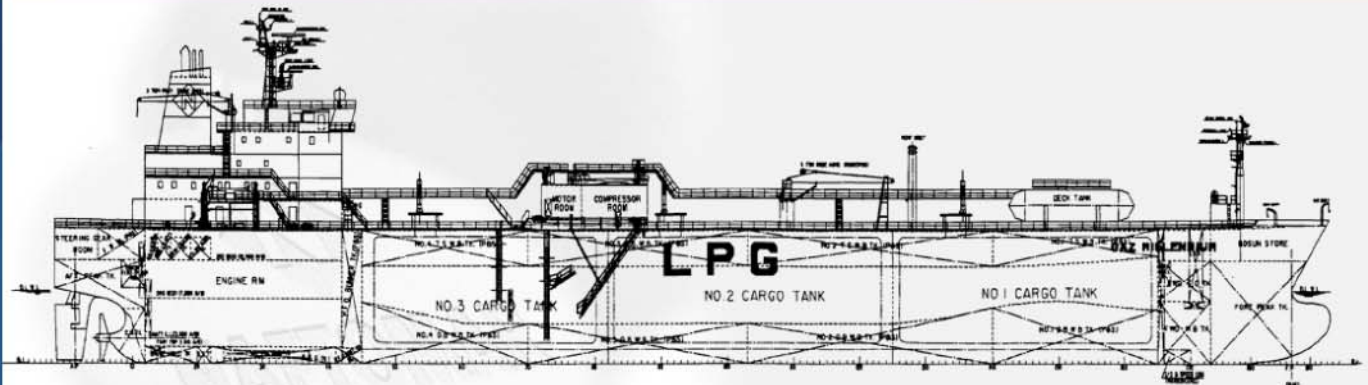




NAFTOMAR



GAZ MILLENNIUM

GENERAL CHARACTERISTICS

Owners: ENERGY GAS S.A., PANAMA
Built: HYUNDAI HEAVY INDUSTRY, 2002
Flag: PANAMANIAN
Class: BUREAU VERITAS + I 3/3 Deep Sea + MACH, AUT - II
Call Sign: H9XZ

GRT/NRT
International: 16,685 / 5,005
Suez: 18,021.96 / 14,967.49
Panama: 16,685 / 5,005
IMO: YES
USCG: YES
RINA: NO
MOT: YES

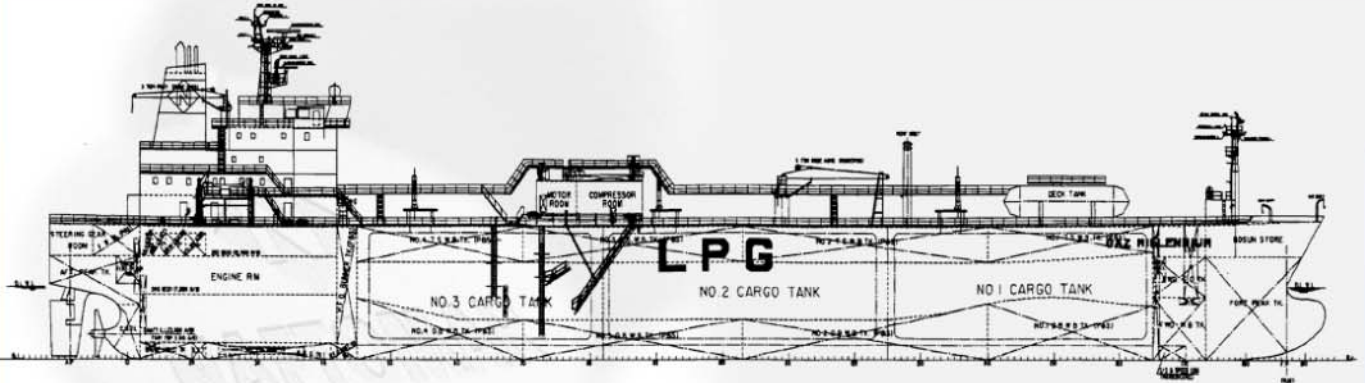
LOA: 154.16 m
LBP: 147.00 m
Breadth Moulded: 25.50 m
Depth Moulded: 16.00 m
DWT, Summer: 16,897 mtms
Draft, Summer: 8.715 m
Draft, Propane: 8.18 m
Draft, Butane: 8.22 m
Air Draft: 33.965 m (from summer loading line)

Main Engine: HYUNDAI B+W 6 S 50 MC MARK VI
Maximum Power: 11,640 bhp at 127 rpm
Fuel Grade: IFO 380 cst
Consumption/day: 33 mtms
Speed (Average): 16.55 knots
Auxiliaries: Three YANMAR 6 N 21 AL-EV
Power: 850 kw
Total Available: 2,550 kw
Grade/Consumption: IFO 380 cst / 7.5 mtms at sea
Bunker Capacity: IFO: 1,078 m³
DIESEL: 231 m³

Particulars herein believed to be correct but not guaranteed



NAFTOMAR



GAZ MILLENNIUM

CARGO PLANT AND HANDLING EQUIPMENT

MARVS: 0.28 bar.g
Min. Temperature: minus 48 °C
Max. Specific Gravity: 0.7 kg/cm³ at 98%/0.972 at 70% Full
Max. Vacuum: -0.01 bar.g
Cargo Pumps: Six SVANEHOJ Deepwell pumps, 350 m³/hr at 120 mlc each
Cargo Compressors: Three two-stage piston SULZER BURCKHARDT COMPRESSOR 2K160-2F-1, oil free, 1,962 m³/hr
Cargo Heater: One using sea water, 350mt/hr (Sea Water +15°C)
Booster Pumps: Two SVANEHOJ NMB 150C, horizontal centrifugal pump, 350 m³/hr at 120 mlc
Deck Tanks: One 155 m³
Inert Gas Plant: One SMIT GAS SYSTEMS, 2000 m³/hr 0.5% O₂, CO₂ 14%
Cargo Vaporizer: YES
Bow Thruster: N/A
Cargo Manifolds: Liquid 14" - 10" ASA 300
Vapour 10" - 6" ASA 150

INDICATIVE CAPACITIES OF CARGO TANKS

TANK No.	CBM 100% (m3)	S.G. T°C	BUTANE 0.605 minus 0.5°C	PROPANE 0.582 minus 42°C	BUTADIENE 0.653 minus 5°C	AMMONIA 0.682 minus 33.4°C
1	6,750		4,002.075	3,849.93	4,319.595	4,511.43
2	8,650		5,125.585	4,933.614	5,535.481	5,781.314
3	7,120		4,221.448	4,060.963	4,556.372	4,758.723
TOTAL	22,520		13,352.108 mtns	12,844.507 mtns	14,411.448 mtns	15,051.467 mtns

Particulars herein believed to be correct but not guaranteed